KYLE GANN:

HYPERCHROMATICA

FOR THREE RETUNED, COMPUTER-DRIVEN PIANOS

2015-21

Technical Specifications

The 33-pitch tuning of the three pianos (the same in every octave) is as follows, given first in the number of cents above E-flat, and then as ratios to the next lowest E-flat 1/1:

Piano	1		2		3	
D	1088	15/8	977	225/128	1044	117/64
Db	969	7/4	938	55/32	906	27/16
C	857	105/64	773	25/16	840	13/8
B	738	49/32	755	99/64	729	195/128
Bb	702	3/2	590	45/32	609	91/64
A	551	11/8	551	11/8	481	169/128
Ab	471	21/16	440	165/128	408	81/64
G	386	5/4	320	77/64	342	39/32
Gb	204	9/8	275	75/64	275	75/64
F	155	35/32	192	143/128	192	143/128
E	92	135/128	53	33/32	27	65/64
Eb	0	1/1	1103	121/64	1173	63/32

Note that no string needs to be raised higher than its natural tuning except for the B-flat on piano 1, which is 2¢ sharp (or if one prefers, 2¢ could be subtracted from all quantities).

For electronic realization of the piece, it can prove helpful to reconfigure he tuning as a reference pitch in cycles per second for each piano, and ratios derived from that standard:

Tuning pitch:	38.891 cps	36.7641 cps	38.2833 cps
D	15/8	225/121	13/7
Db	7/4	20/11	12/7
C	105/64	200/121	104/63
B	49/32	18/11	65/42
Bb	3/2	180/121	13/9
A	11/8	16/11	169/126
Ab	21/16	15/11	9/7
G	5/4	14/11	26/21
F#	9/8	150/121	25/21
F	35/32	13/11	143/126
E	135/128	12/11	65/63
Eb	1/1	1/1	1/1

In the configuration of certain tuning softwares, the following sequences might facilitate getting the required tuning:

Piano 1:
38.891 = Eb0
1/1, 135/128, 35/32, 9/8, 5/4, 21/16, 11/8, 3/2, 49/32, 105/64, 7/4, 15/8

Piano 2:
36.7641485 = Eb0
1/1, 12/11, 13/11, 150/121, 14/11, 15/11, 16/11, 180/121, 18/11, 200/121, 20/11, 225/121
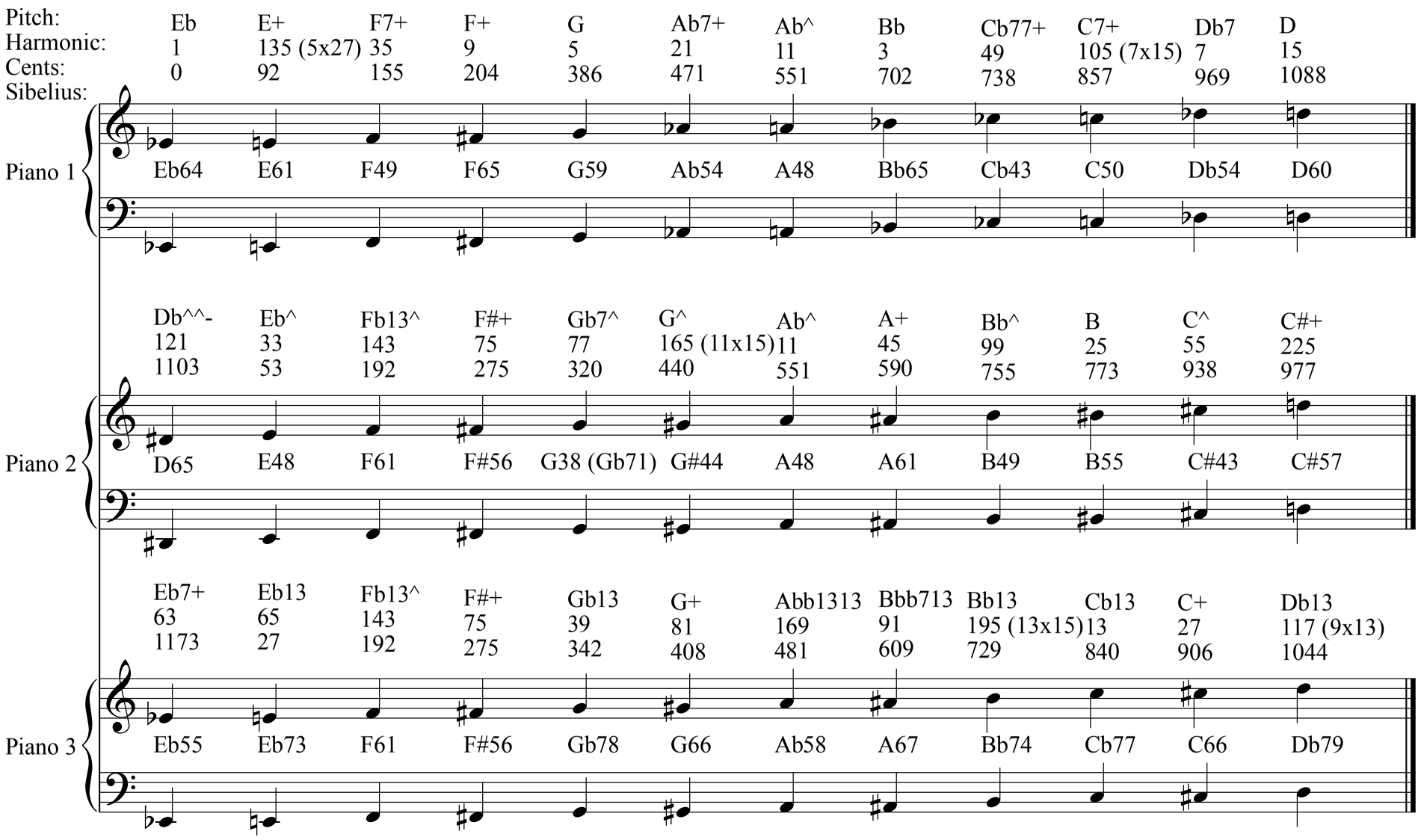
Piano 3:
38.283333 = Eb0
1/1, 65/63, 143/126, 25/21, 26/21, 9/7, 169/126, 13/9, 65/42, 104/63, 12/7, 13/7

For purposes of analysis, the entire scale (which I refer to as my 8x8 scale) is given below, grouping its pitches into eight harmonic series' on the 1^{st}, 3^{rd}, 5^{th}, 7^{th}, 9^{th}, 11^{th}, 13^{th}, and 15^{th} harmonics of E-flat, and naming each pitch in a typographical equivalent of Ben Johnston's just-intonation notation:

Pitch name	Ratio	Cents	1/1	3/2	5/4	7/4	9/8	11/8	13/8	15/8
Db^^-	121/64	1103						11		
D	15/8	1088	15	5	3					1
Db13	117/64	1044					13		9	
C#+	225/128	977								15
Db7	7/4	969	7			1				
C^	55/32	938			11			5		
C+	27/16	906		9			3			
C7+	105/64	857				15				7
Cb13	13/8	840	13						1	
B	25/16	773			5					
Bb^	99/64	755					11	9		
Cb77+	49/32	738				7				
Bb13	195/128	729							15	13
Bb	3/2	702	3	1						
Bbb713	91/64	609				13			7	
A+	45/32	590		15	9		5			3
Ab^	11/8	551	11					1		
Abb1313	169/128	481							13	
Ab7+	21/16	471		7		3				
G^	165/128	440						15		11
G+	81/64	408					9			
G	5/4	386	5		1					
Gb13	39/32	342		13					3	
Gb7^	77/64	320				11		7		
F#+	75/64	275			15					5
F+	9/8	204	9	3			1			
Fb13^	143/128	192						13	11	
F7+	35/32	155			7	5				
E+	135/128	92					15			9
Eb^	33/32	53		11				3		
Eb13	65/64	27			13				5	
Eb	1/1	0	1							
Eb7+	63/32	1173				9	7			
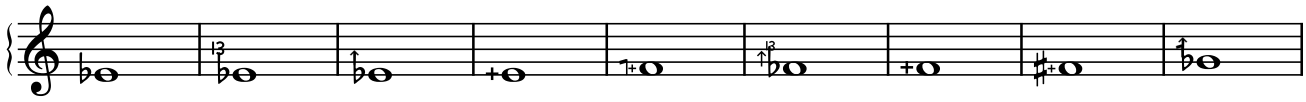
In Johnston's notation, + raises a pitch by 81/80, # raises it by 25/24, b lowers it by 24/25, 7 lowers it by 35/36, ^ raises it by 33/32, 13 raises it by 65/64, and F-A-C, C-E-G, and G-B-D are all perfectly tuned 4:5:6 major triads.

8x8 Three-Piano Tuning

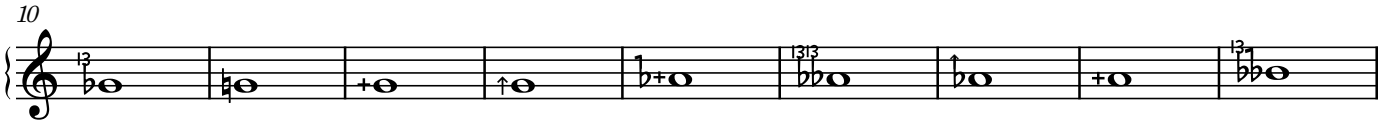


Hyperchromatica - Scale
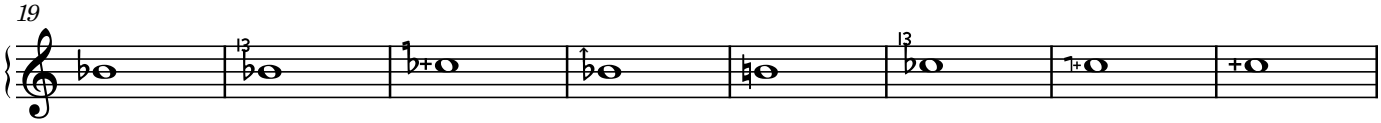
1/1	65/64	33/32	135/128	35/32	143/128	9/8	75/64	77/64
0¢	27¢	53¢	92¢	155¢	192¢	204¢	275¢	320¢



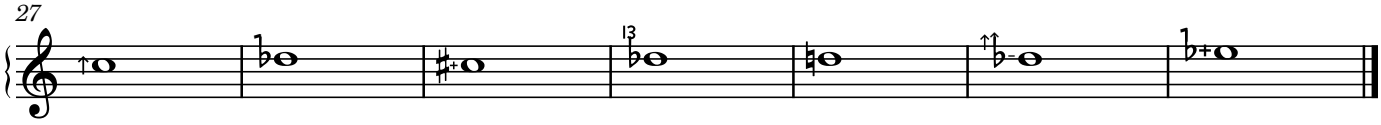
39/32	5/4	81/64	165/128	21/16	169/128	11/8	45/32	91/64
342¢	386¢	408¢	440¢	471¢	481¢	551¢	590¢	609¢



3/2	195/128	49/32	99/64	25/16	13/8	105/64	27/16
702¢	729¢	738¢	755¢	773¢	840¢	857¢	906¢



55/32	7/4	225/128	117/64	15/8	121/64	63/32
938¢	969¢	977¢	1044¢	1088¢	1103¢	1173¢
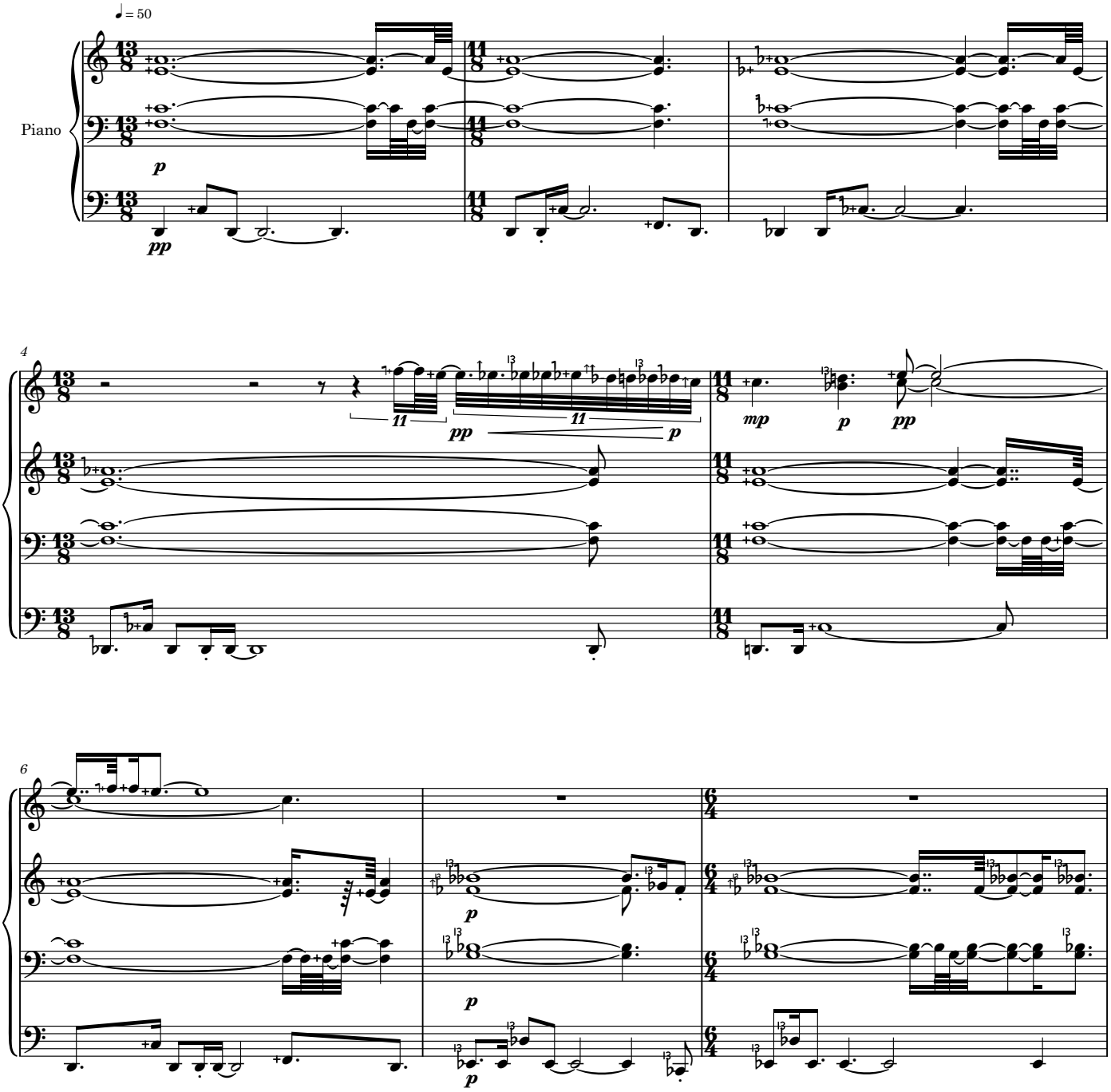


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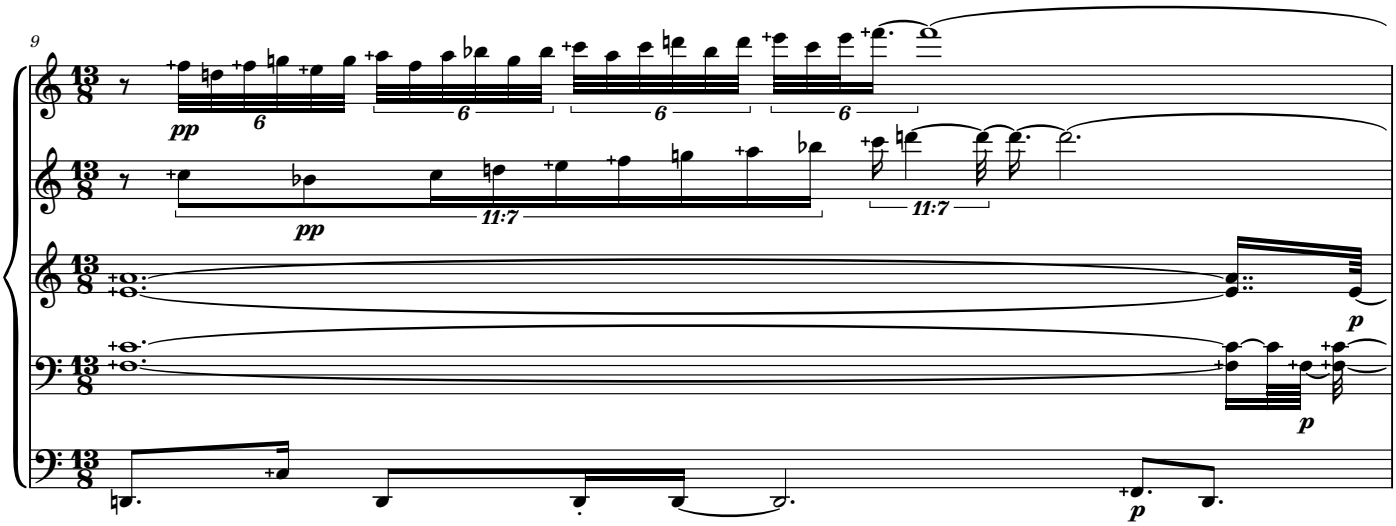
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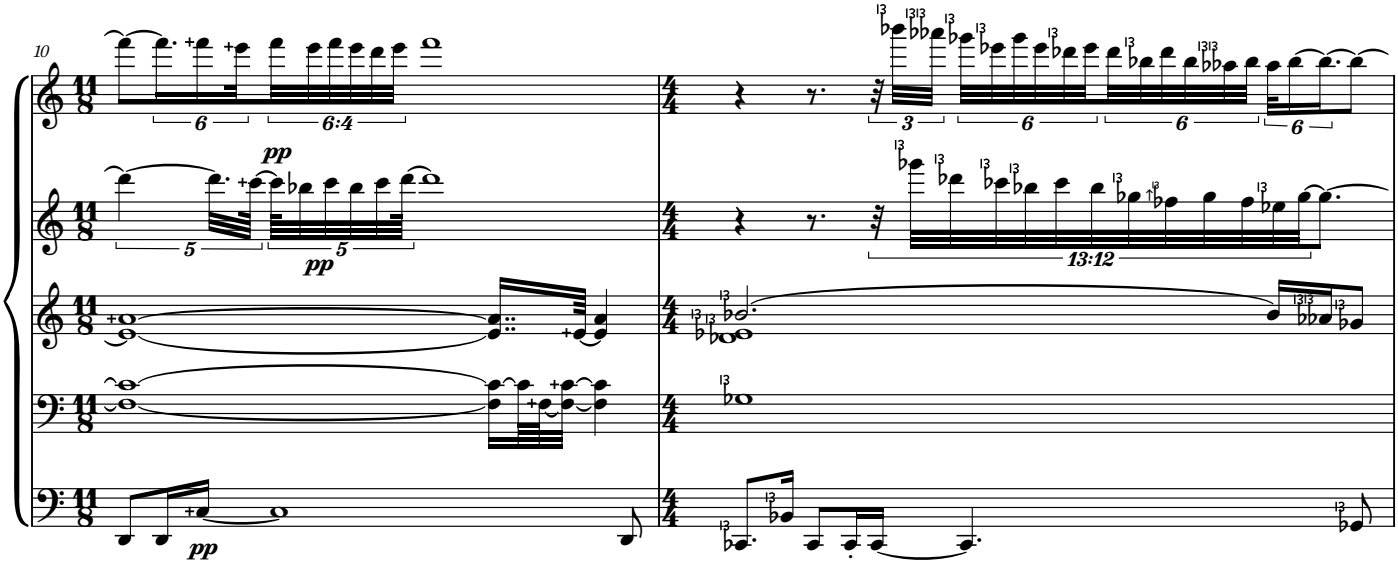
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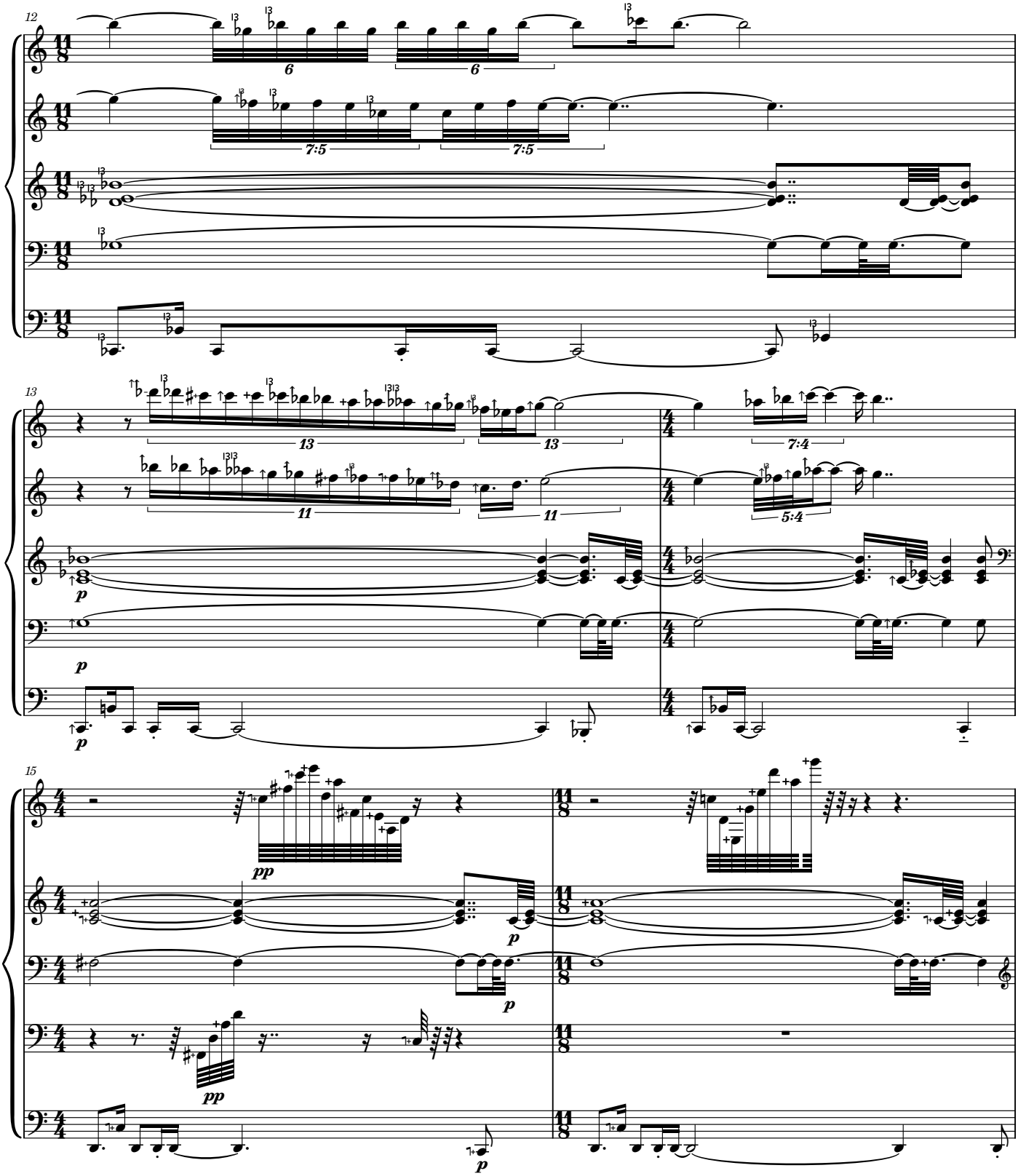
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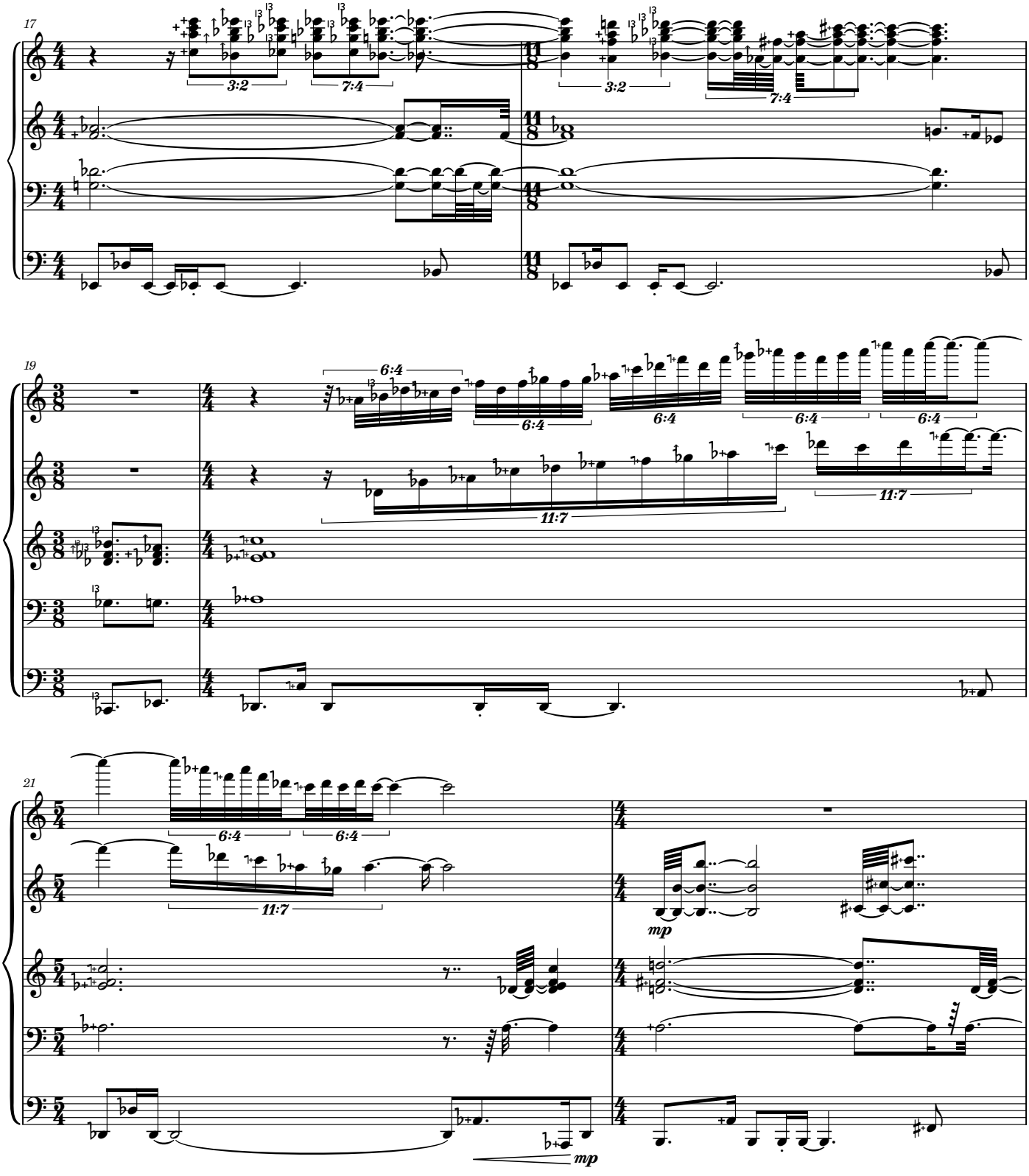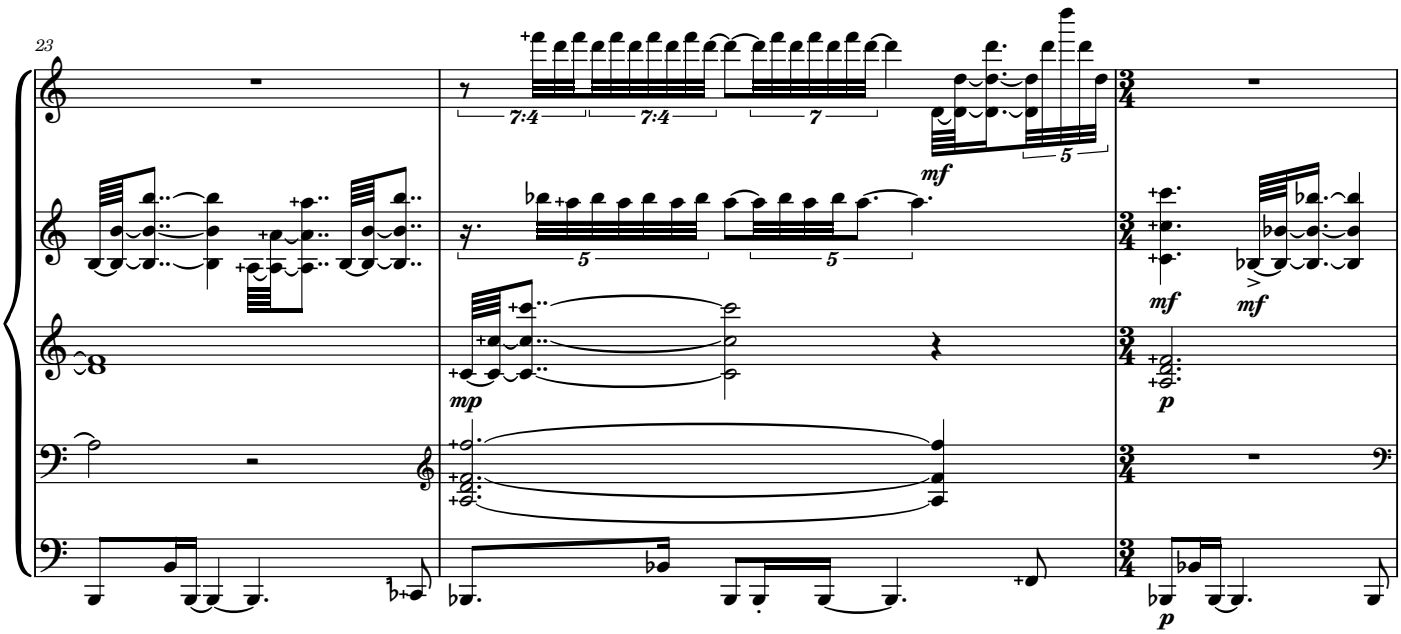


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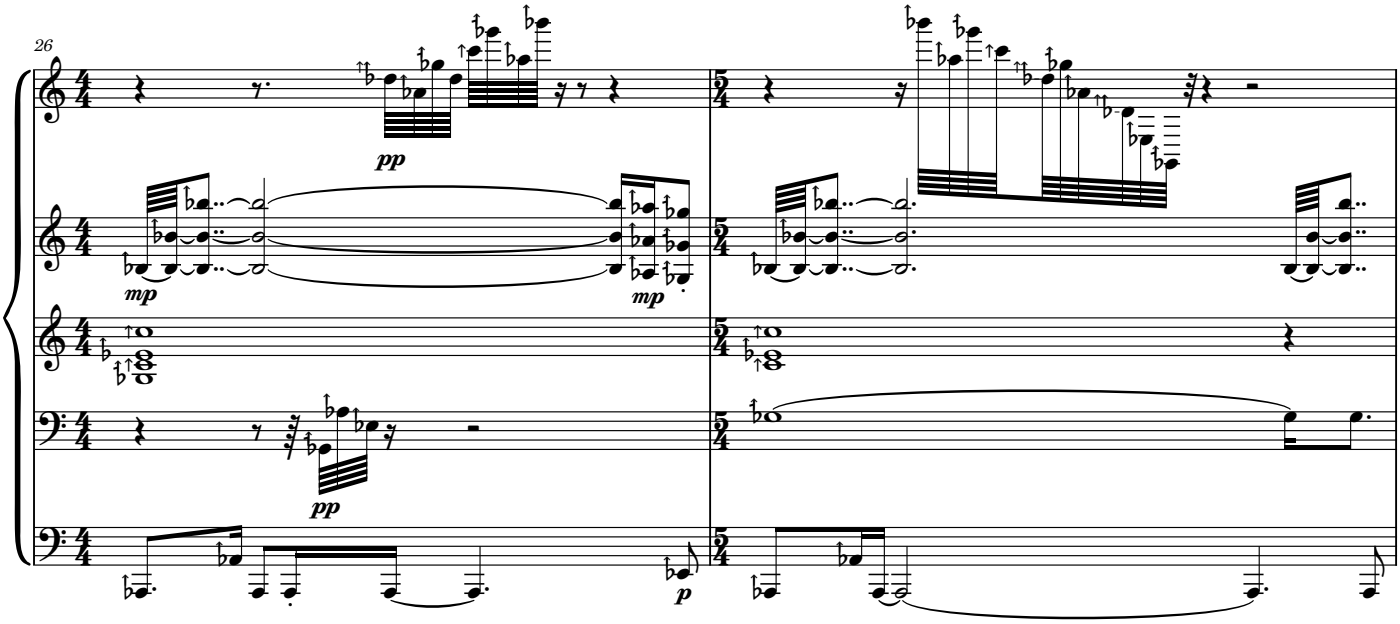

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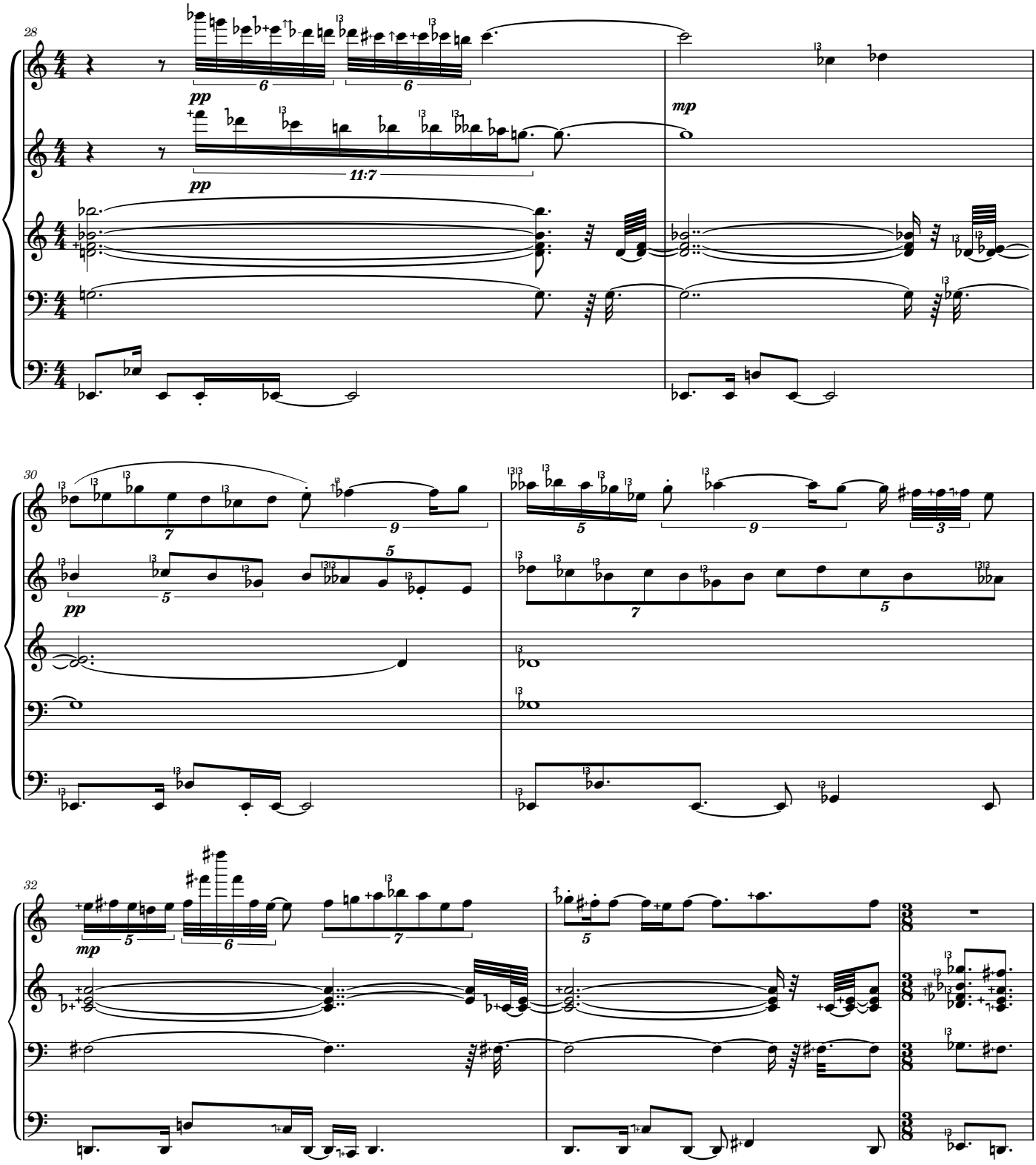

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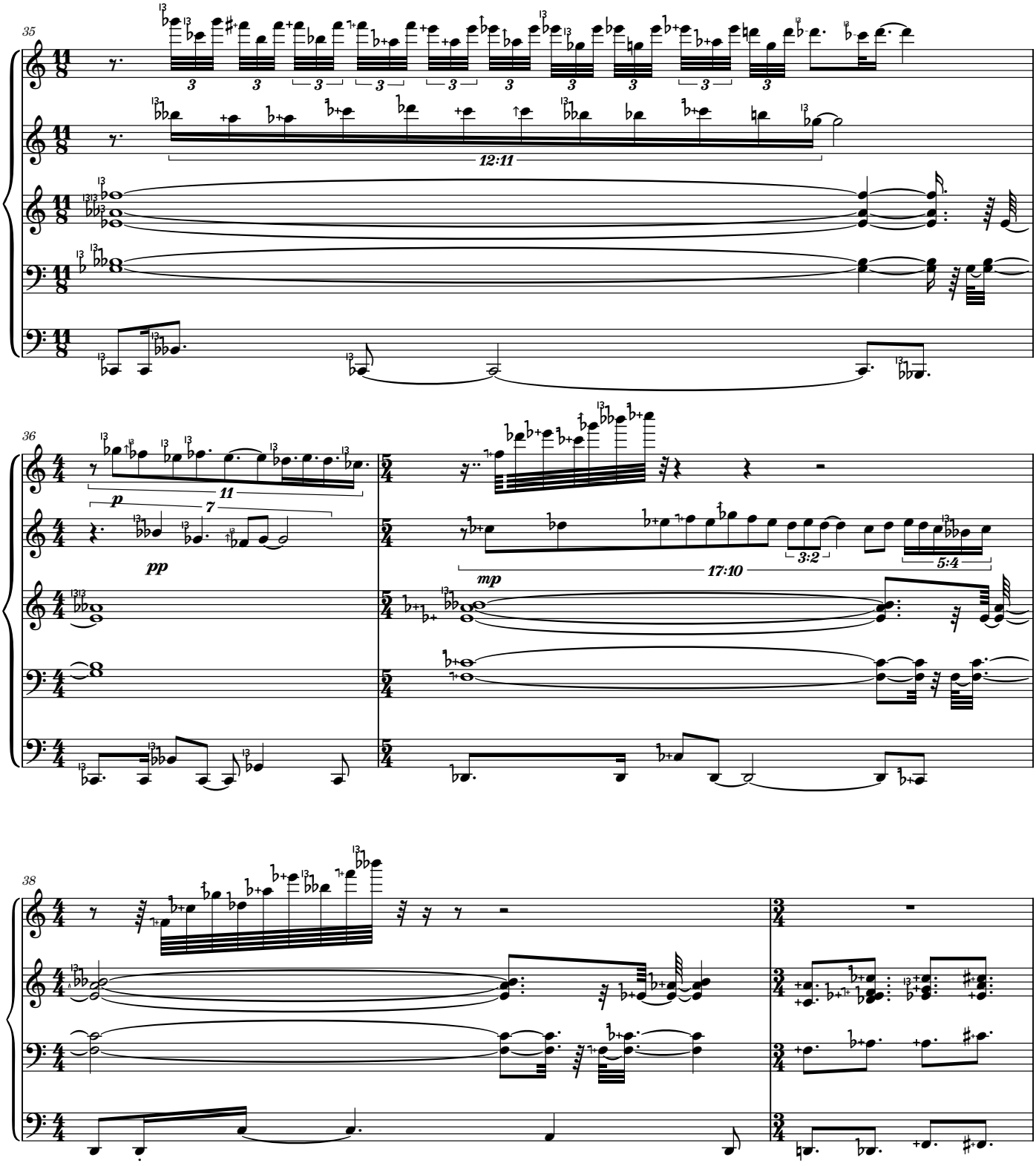

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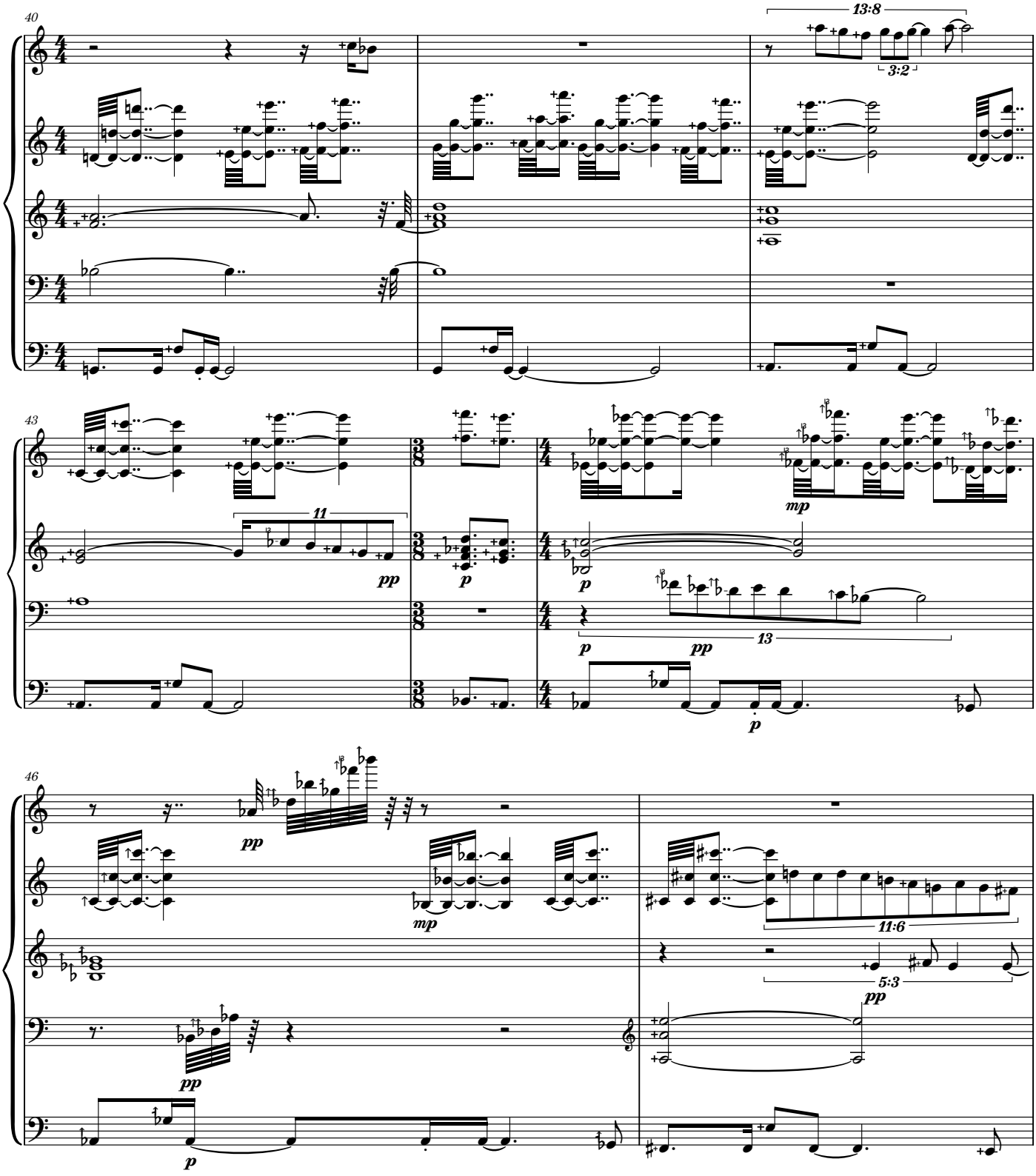

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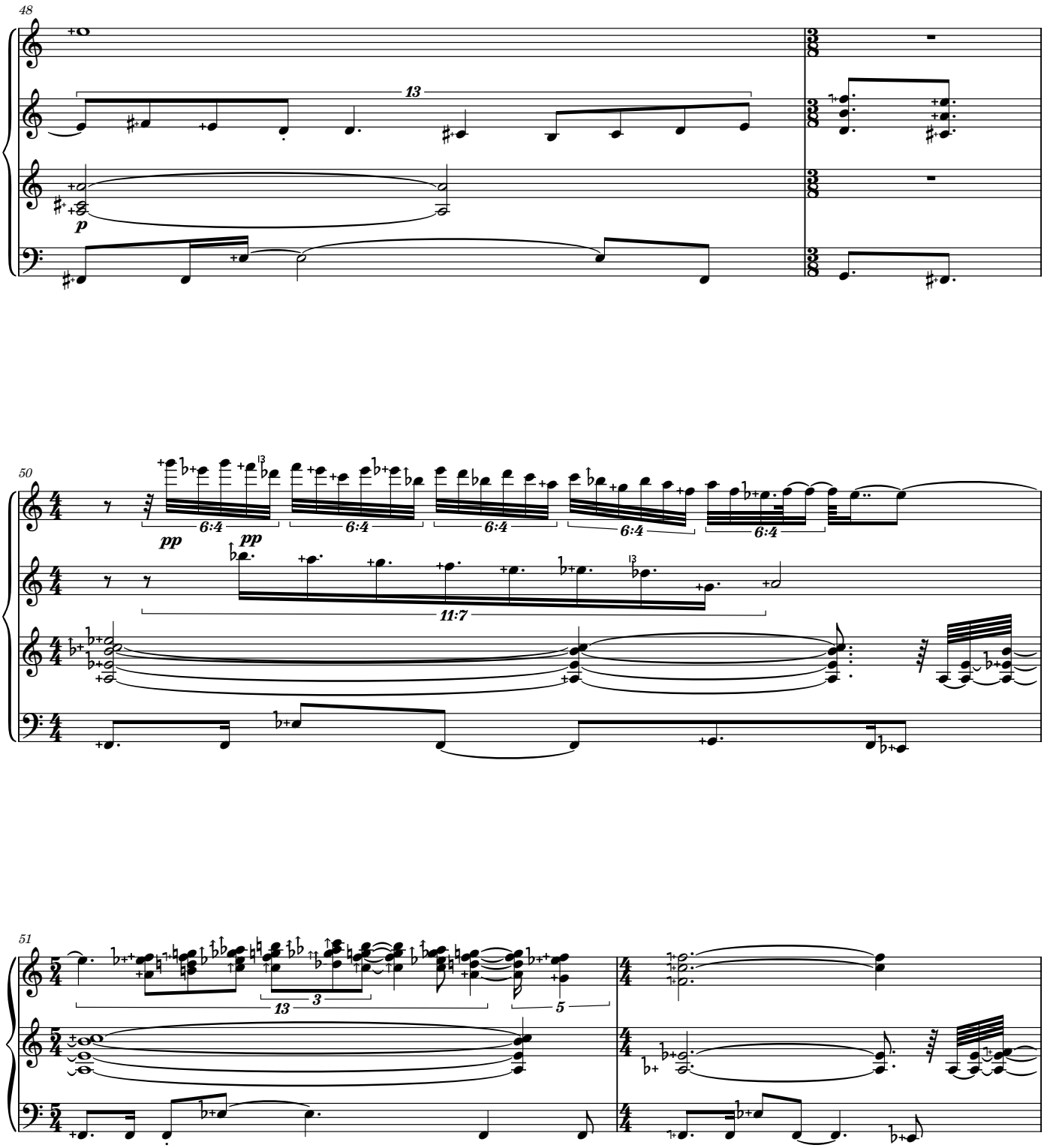

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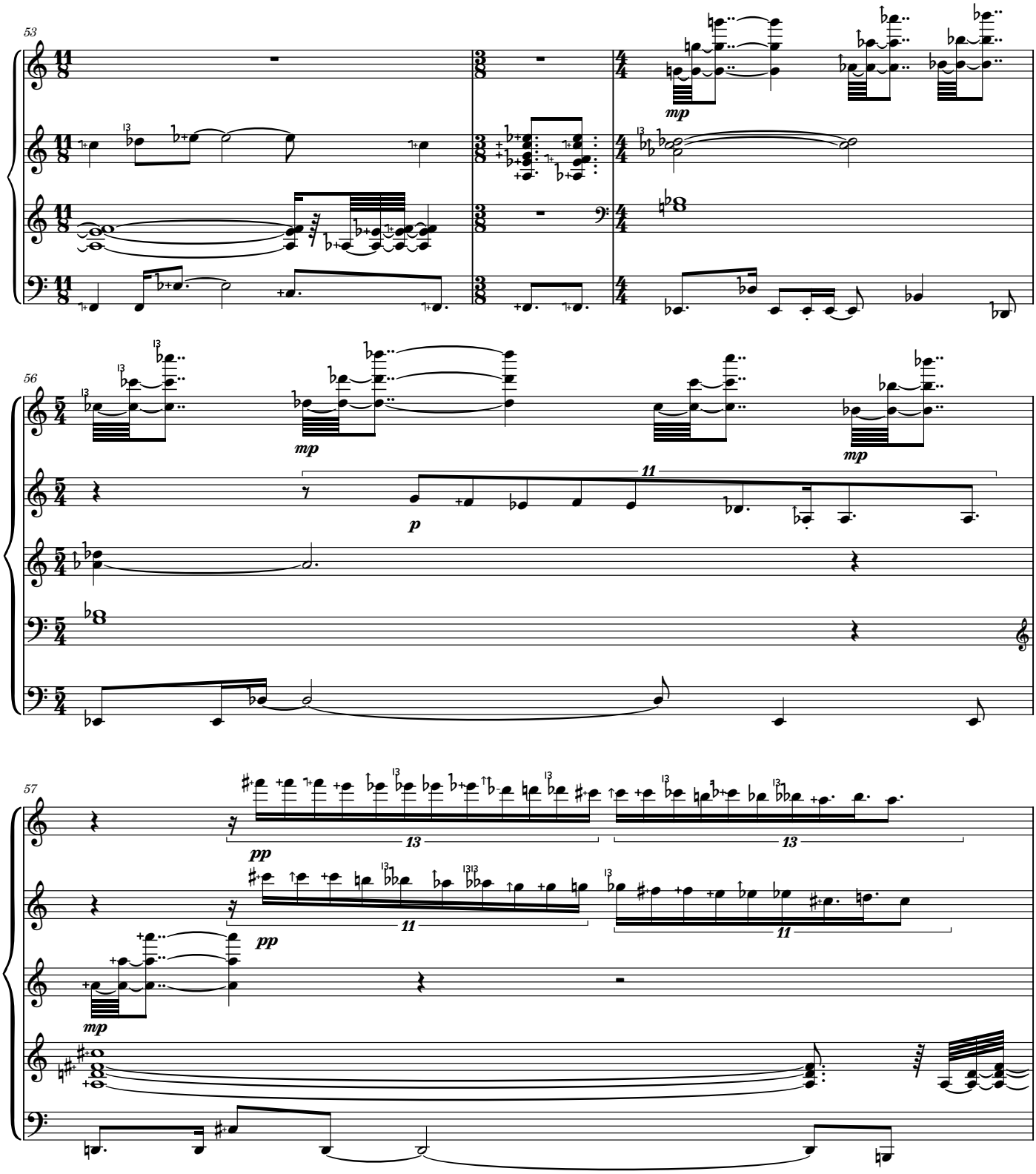

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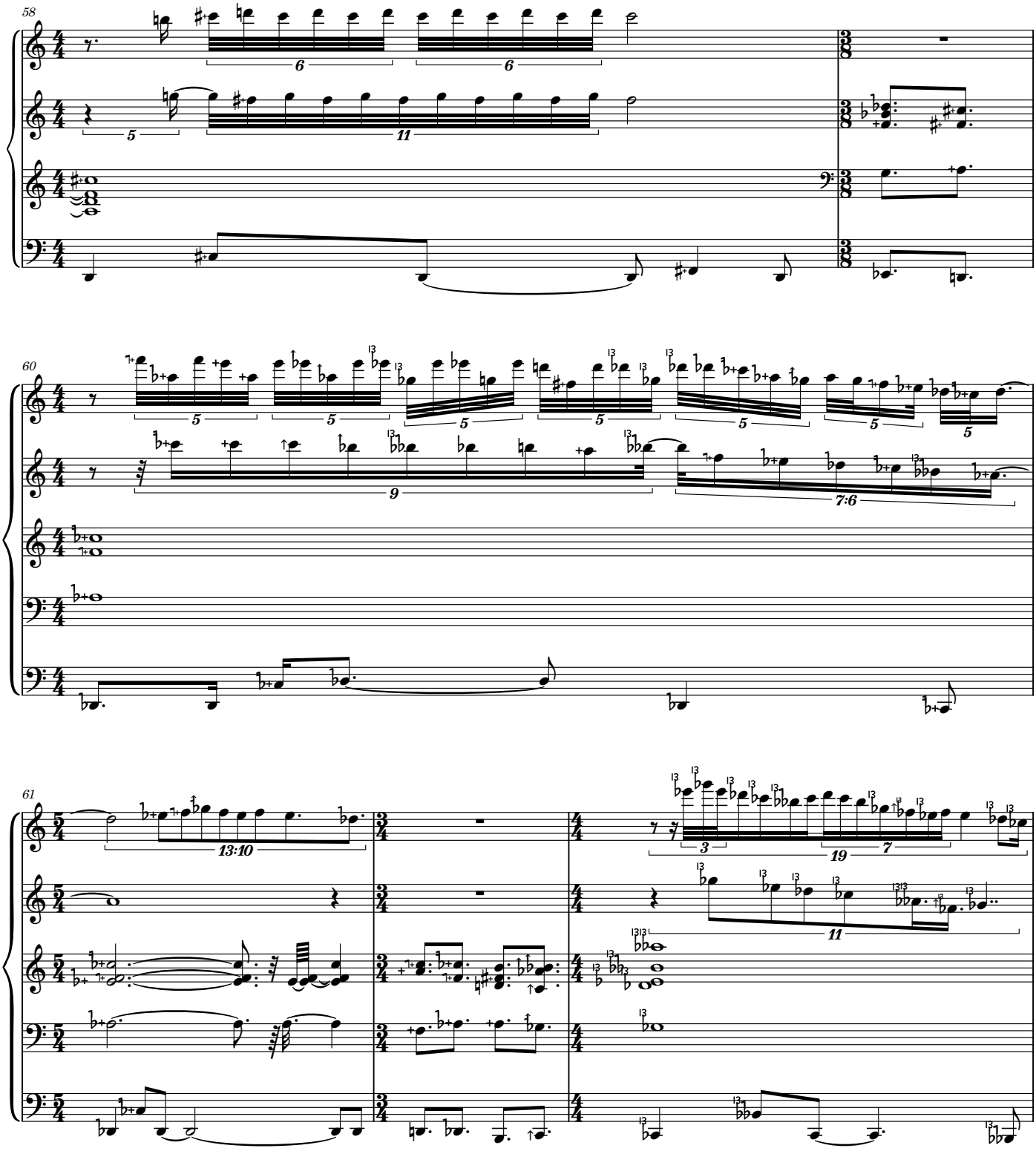

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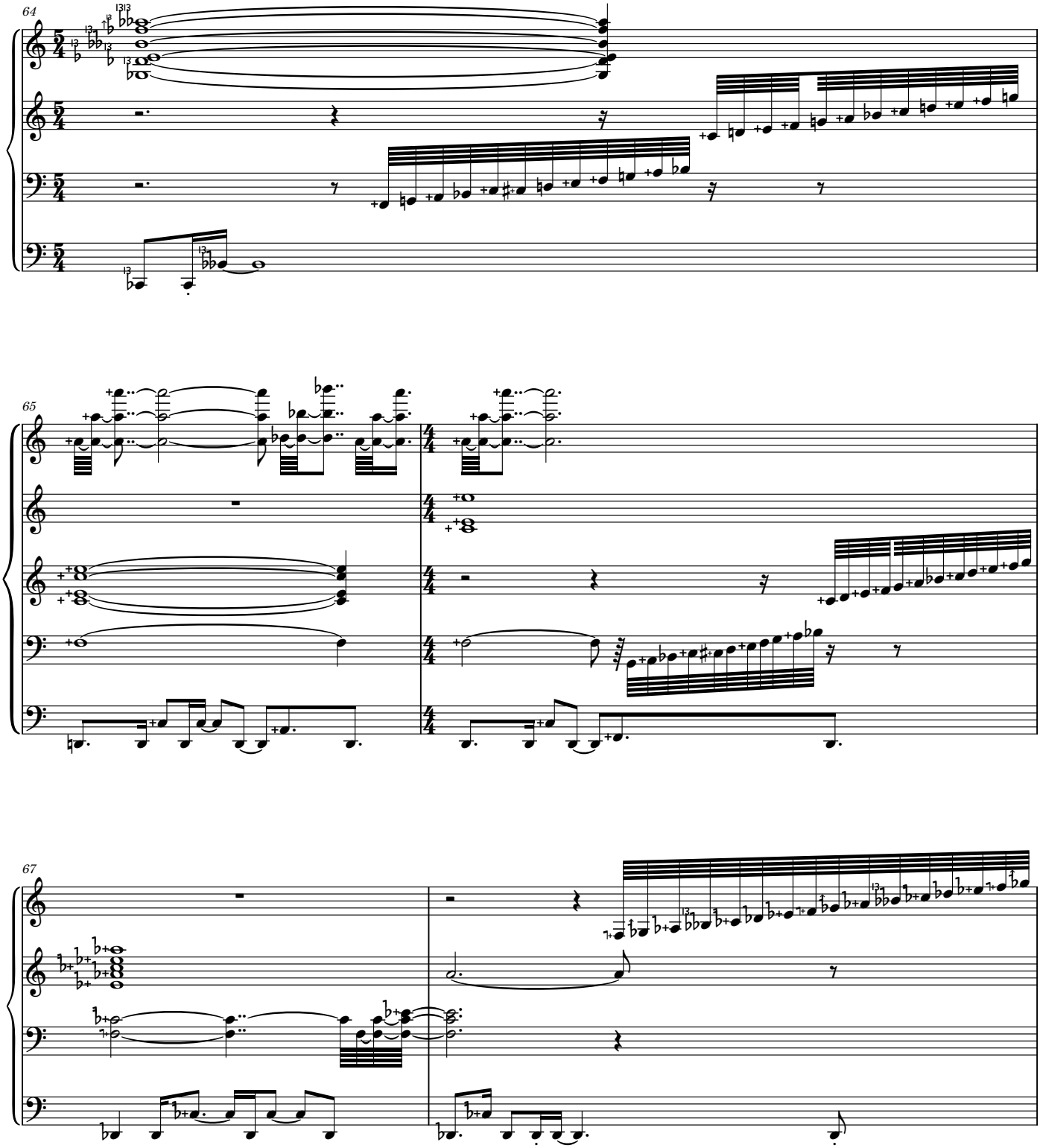

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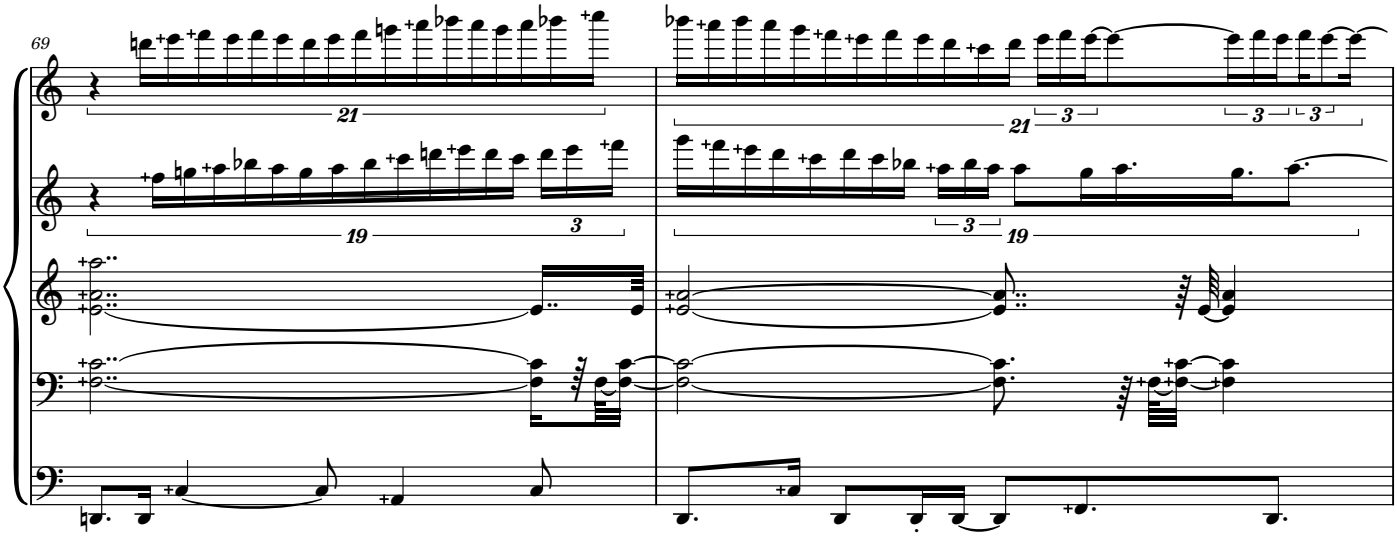

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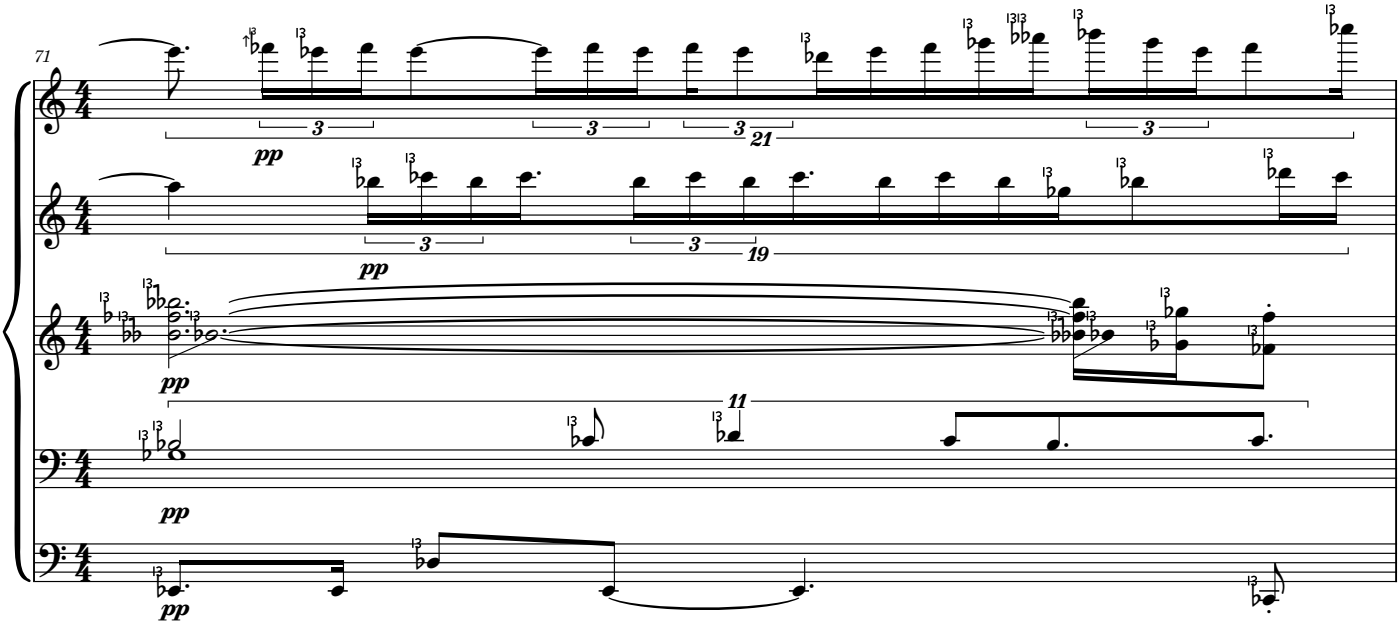

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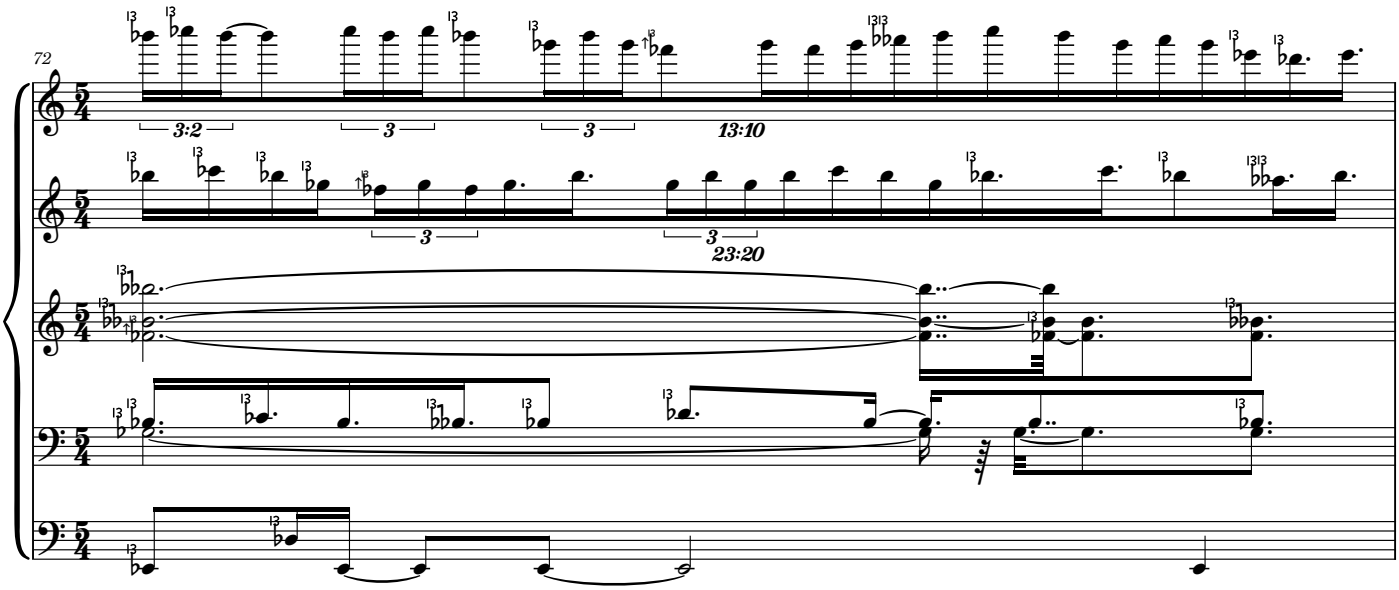

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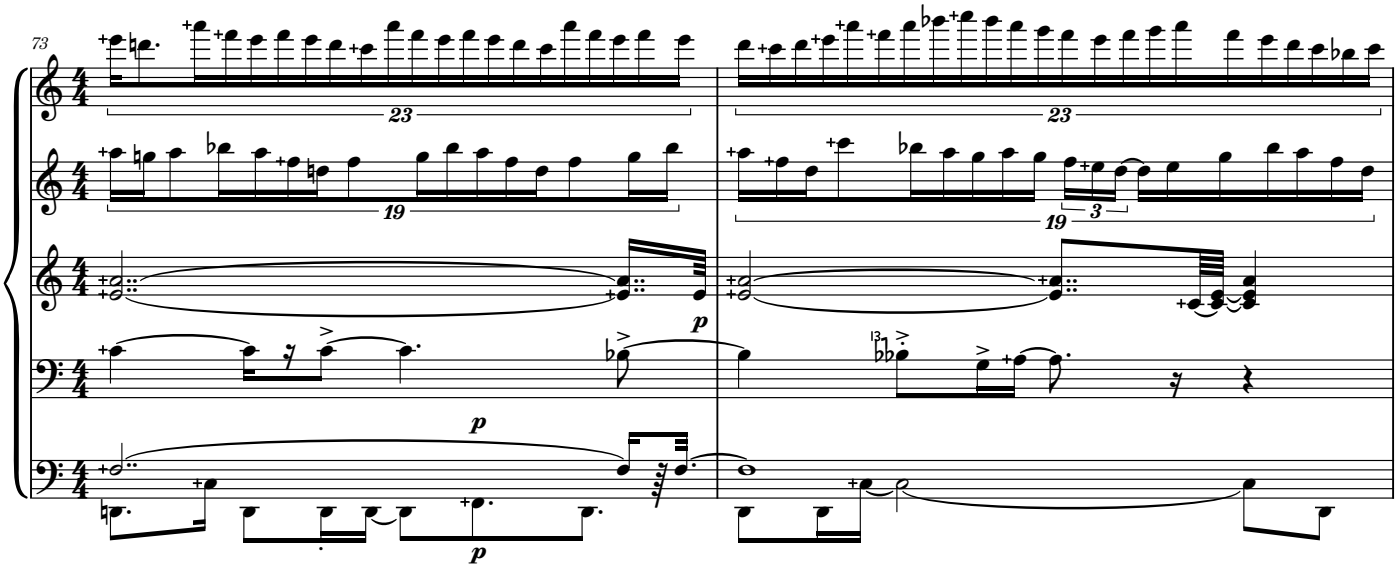

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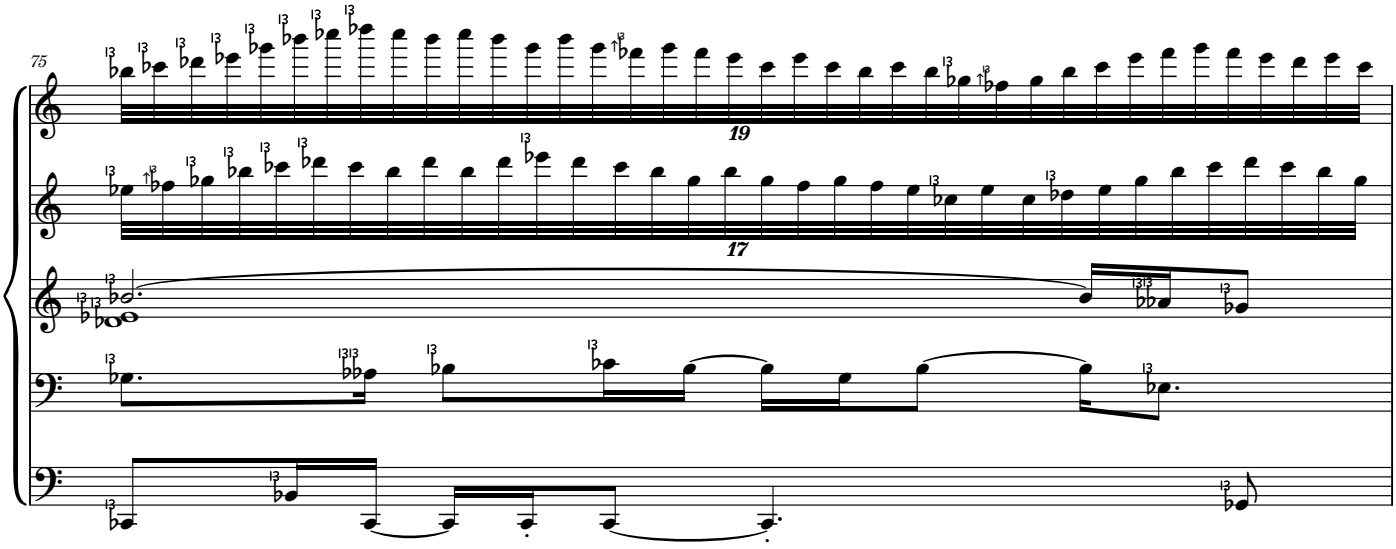

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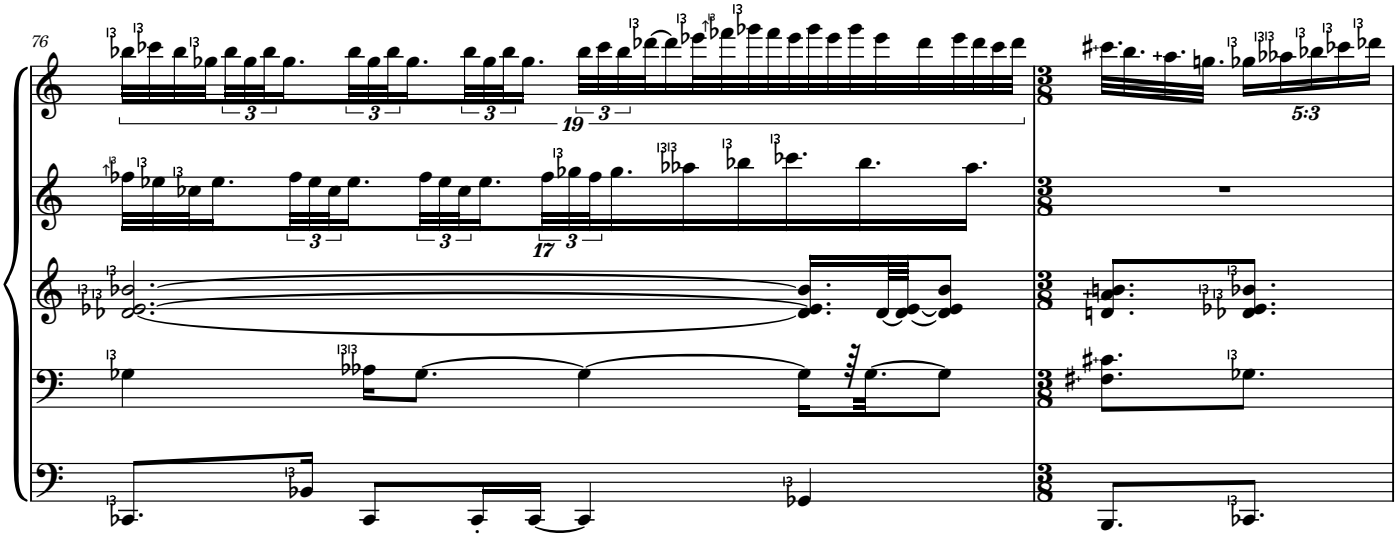

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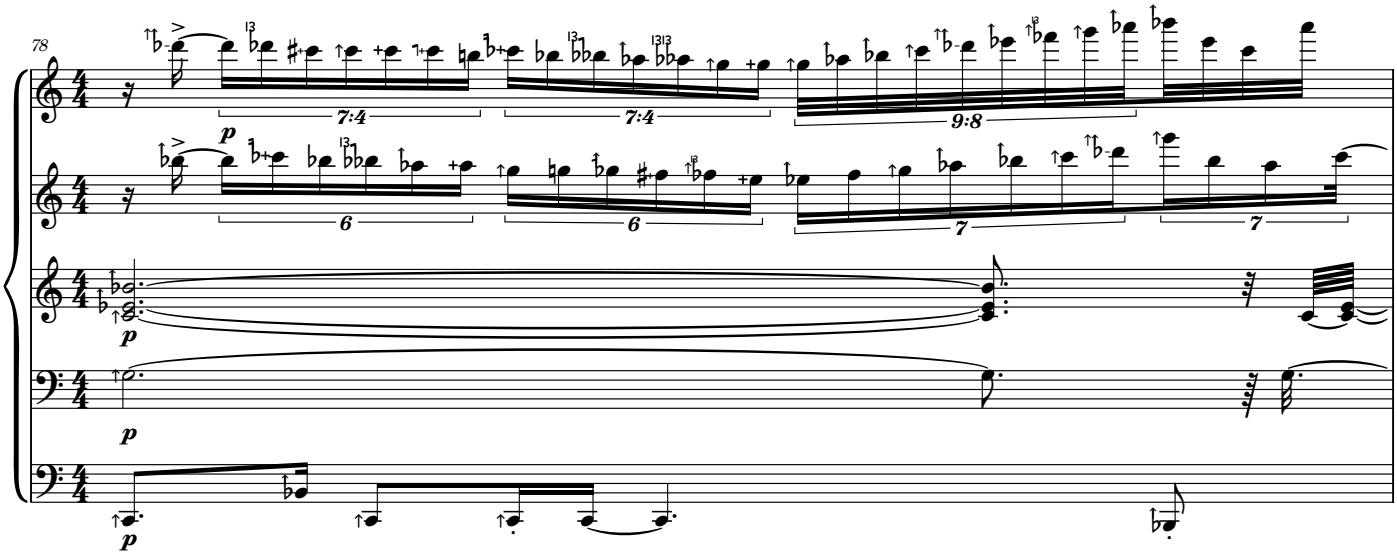

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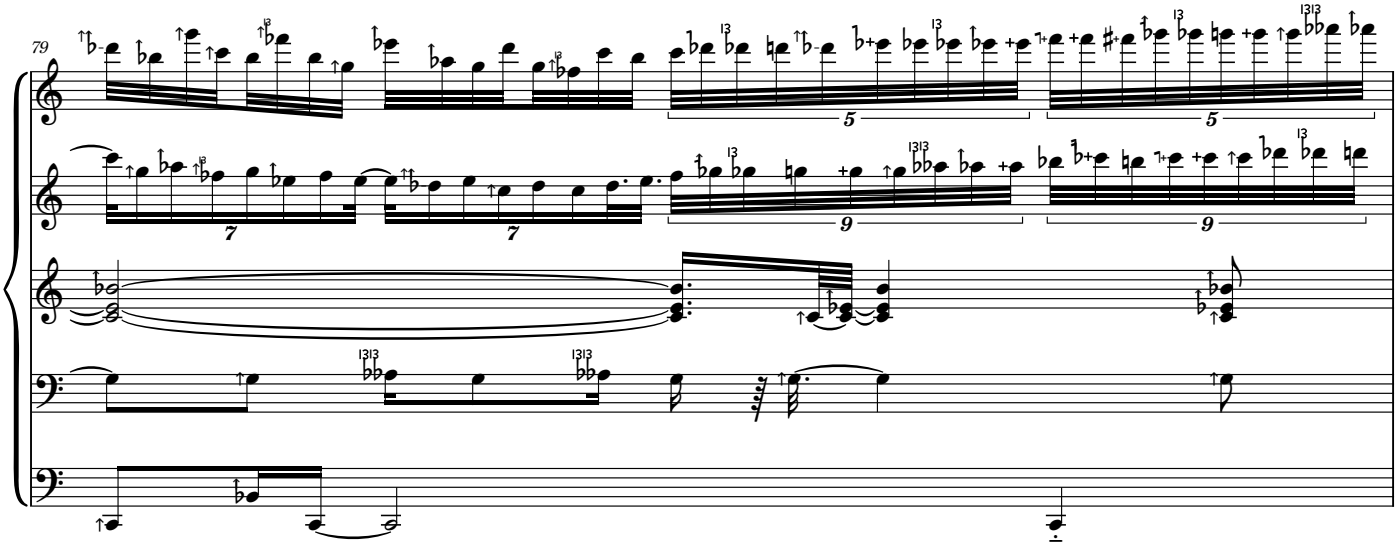

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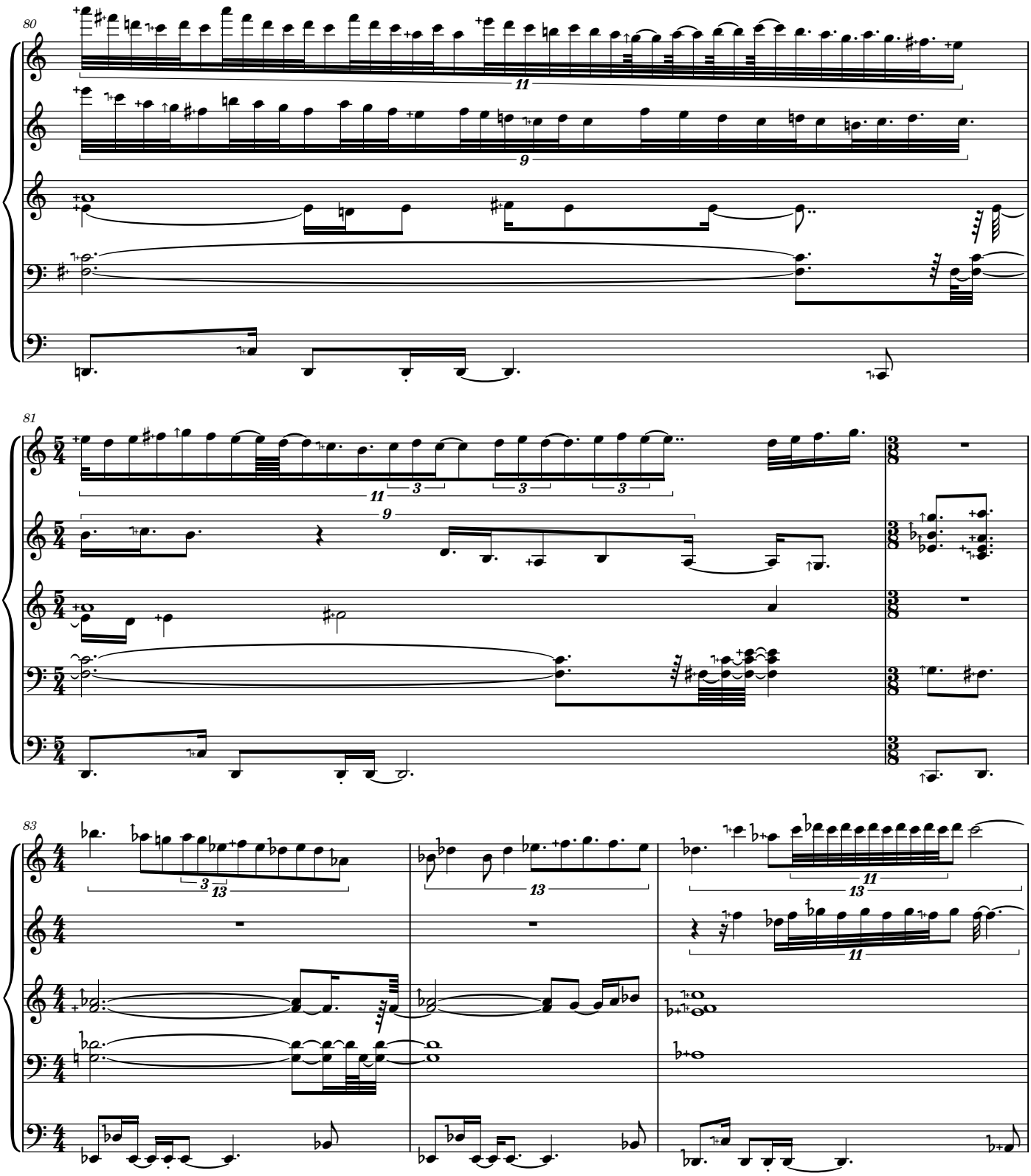

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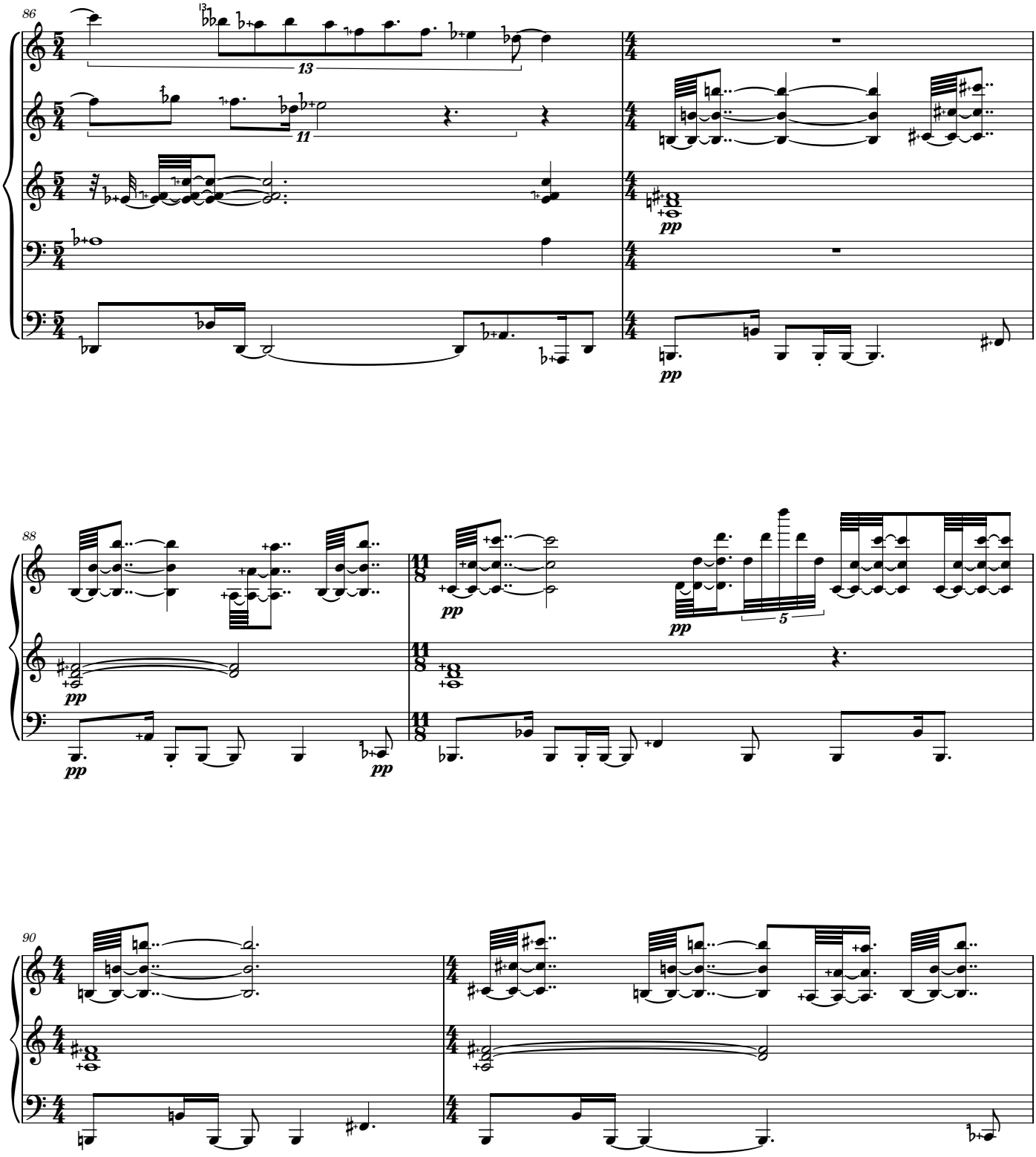

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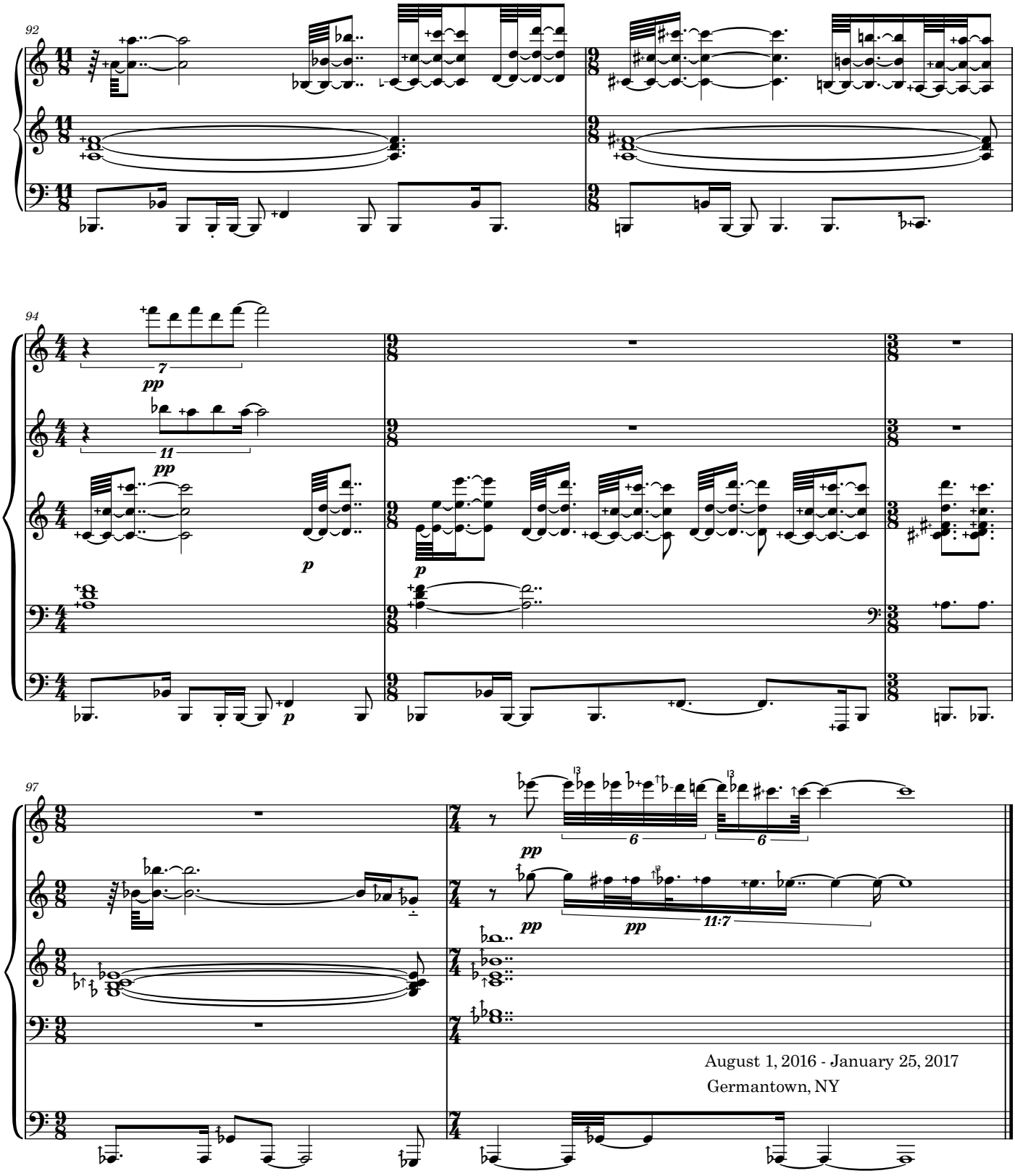

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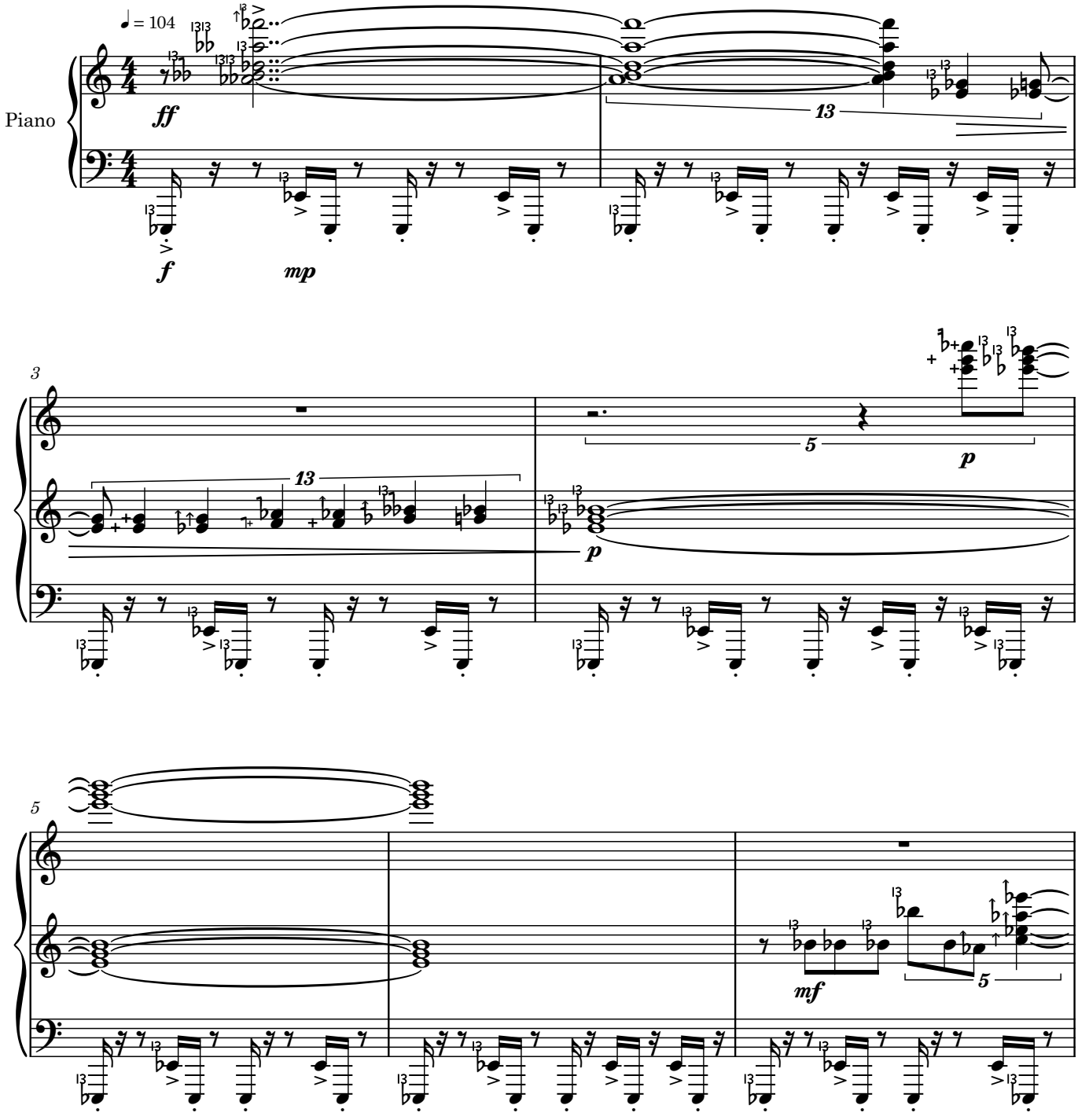

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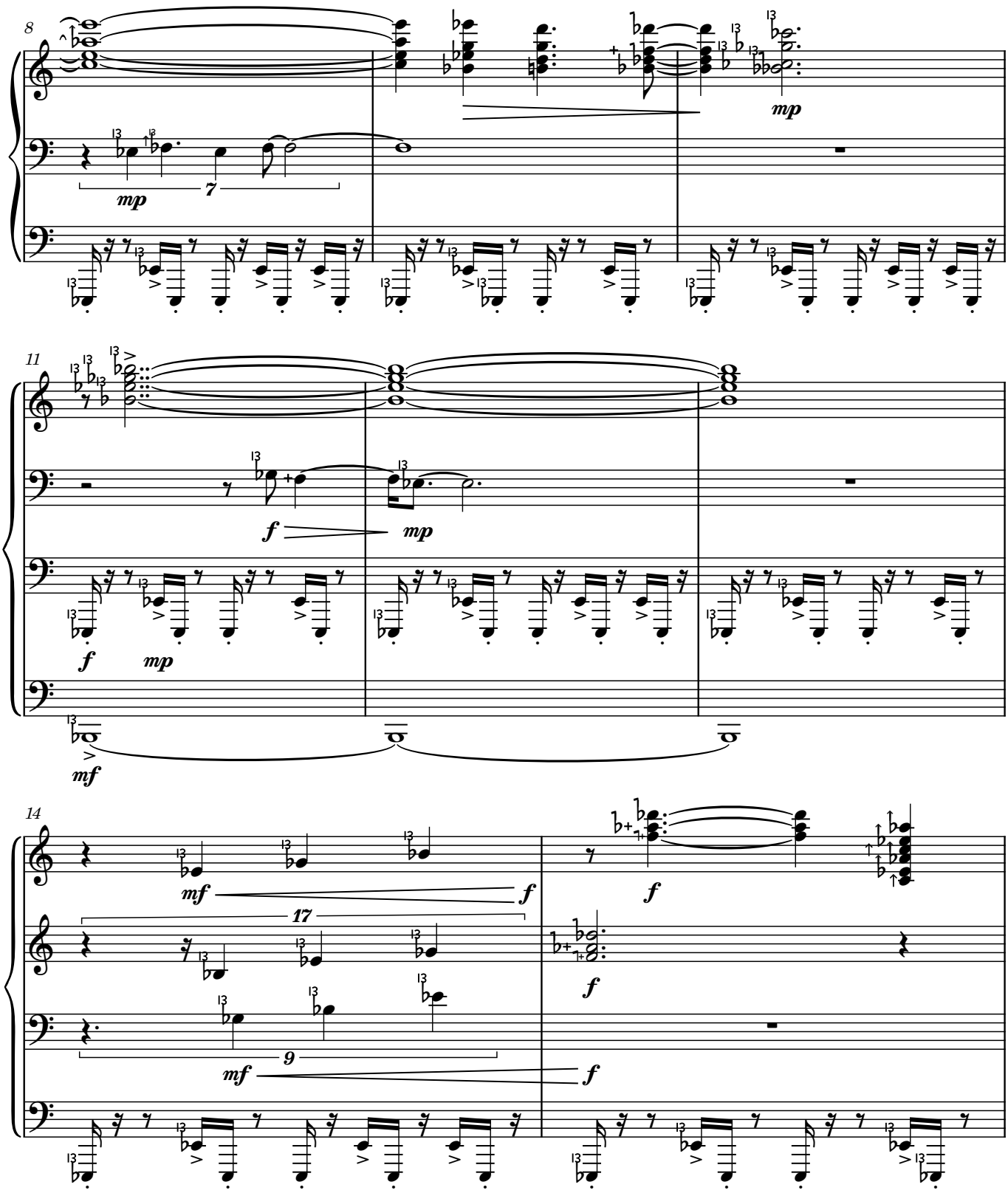

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August 1, 2016 - January 25, 2017
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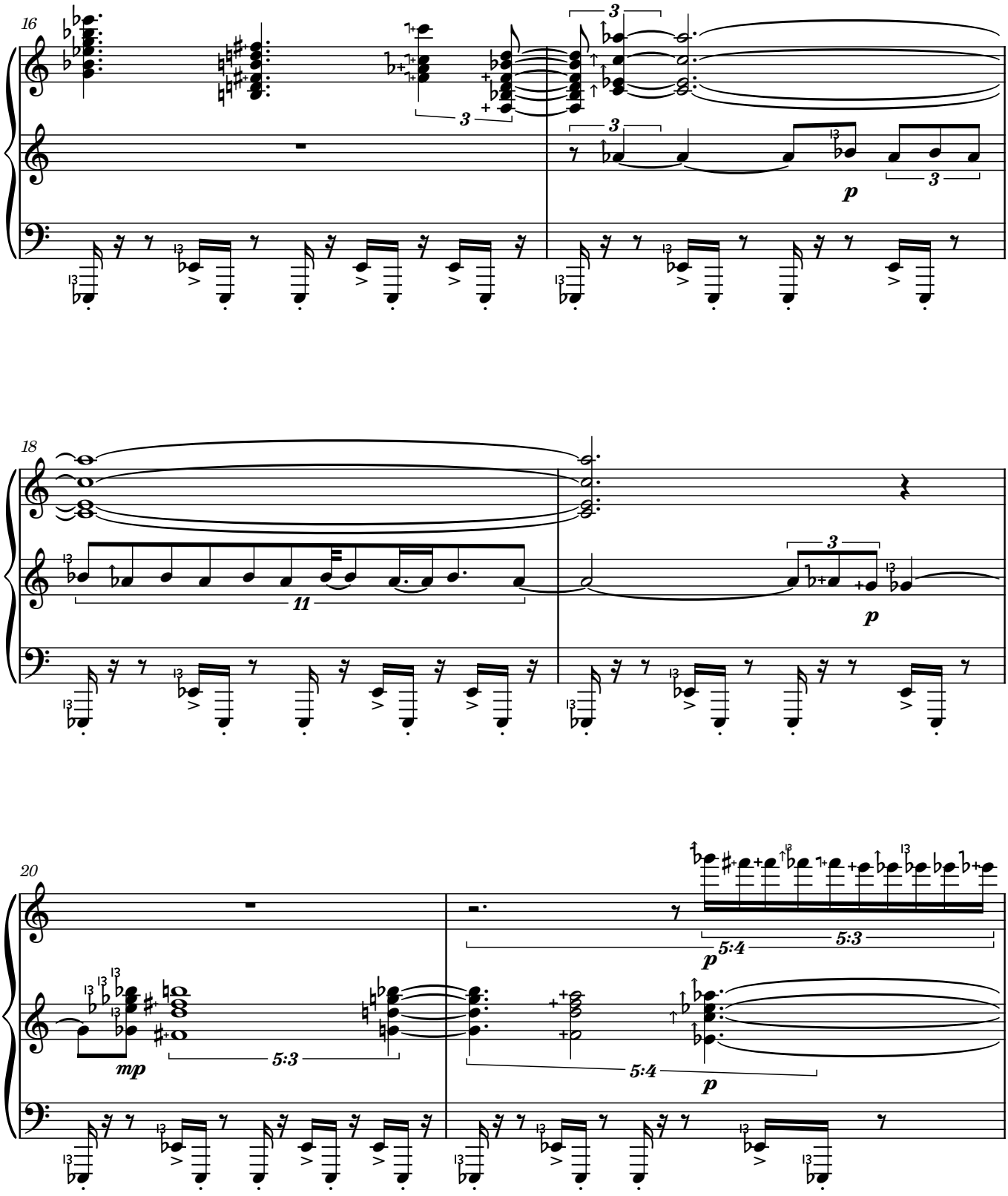
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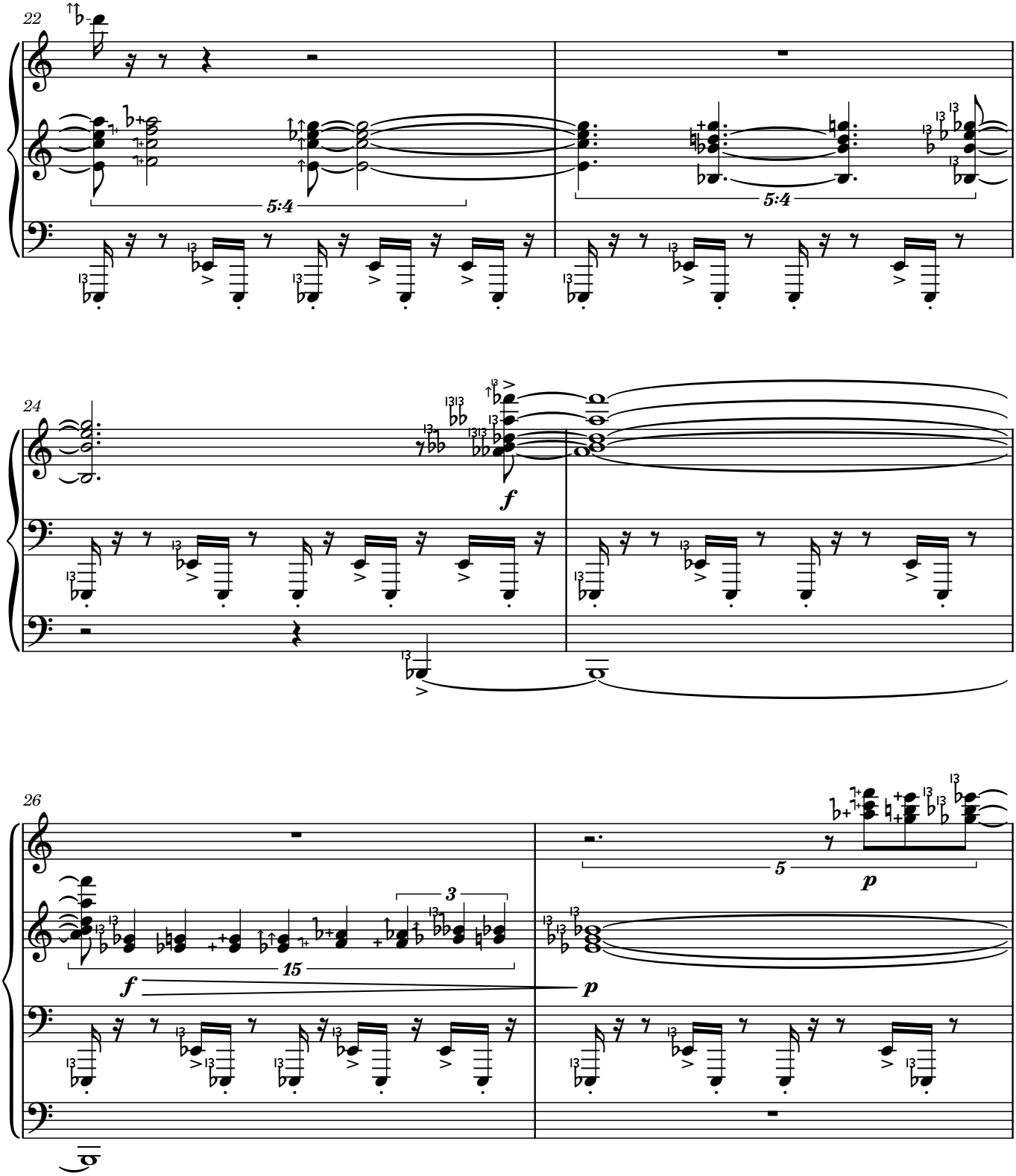
Kyle Gann
2015

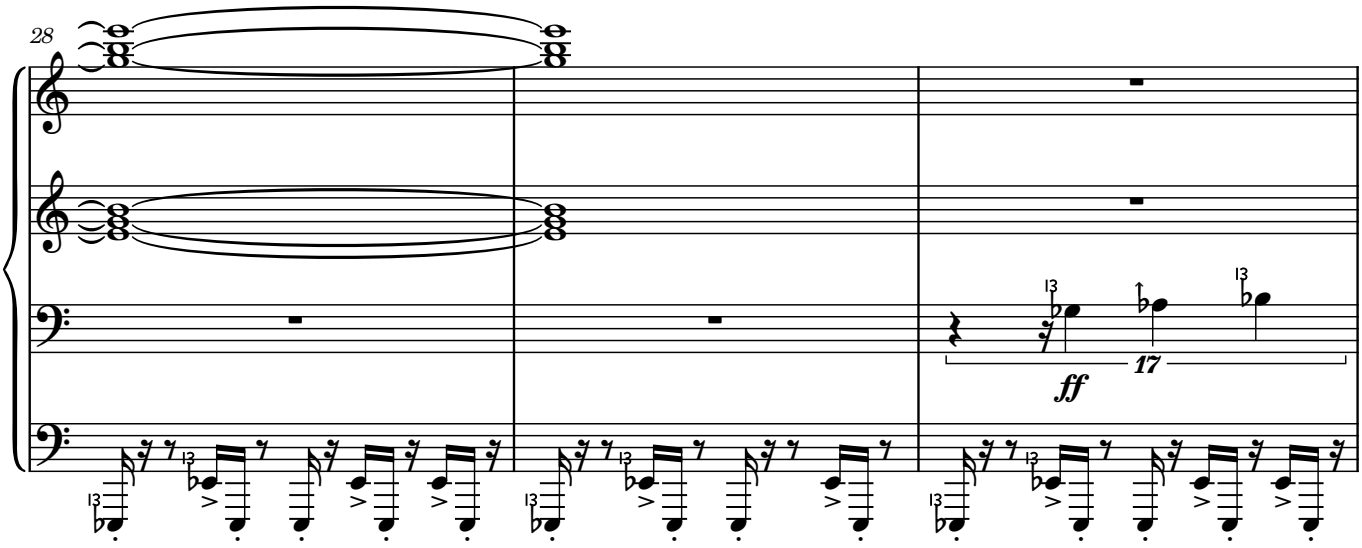


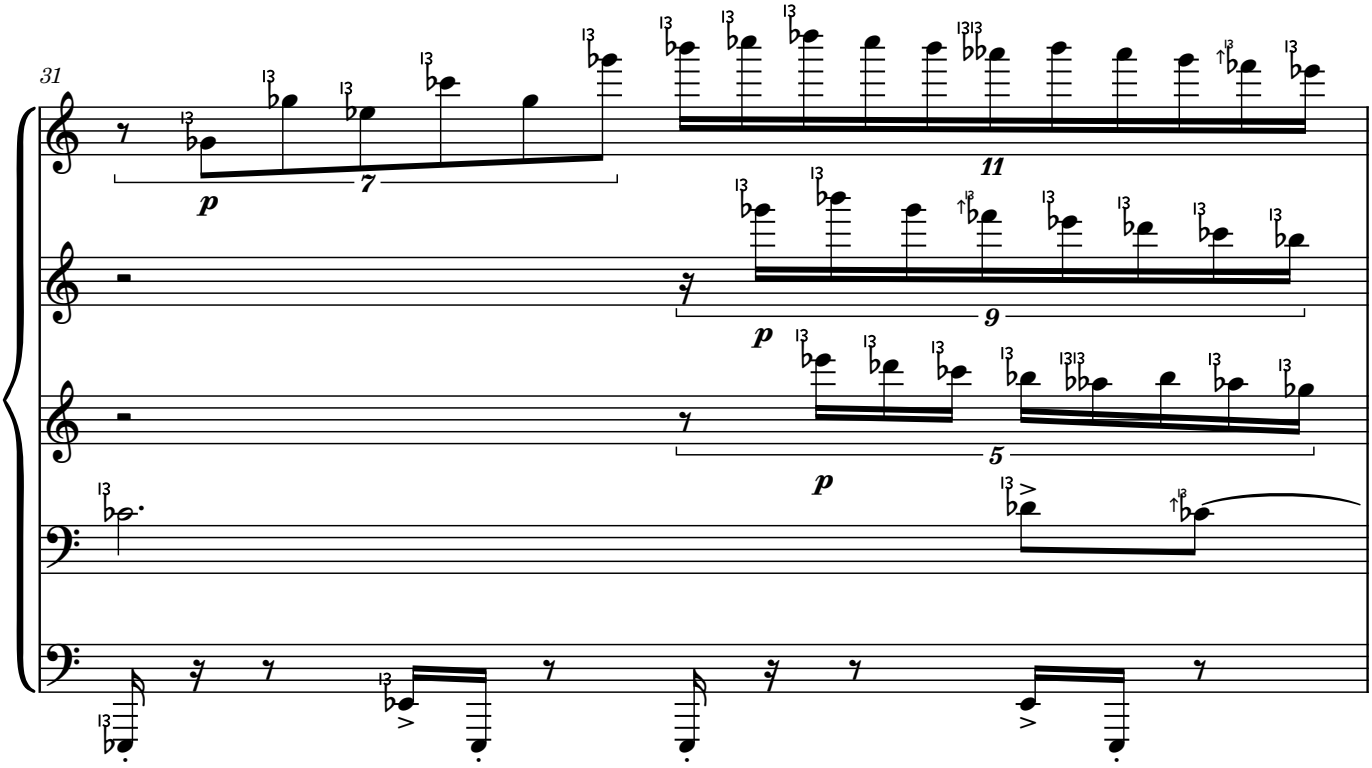
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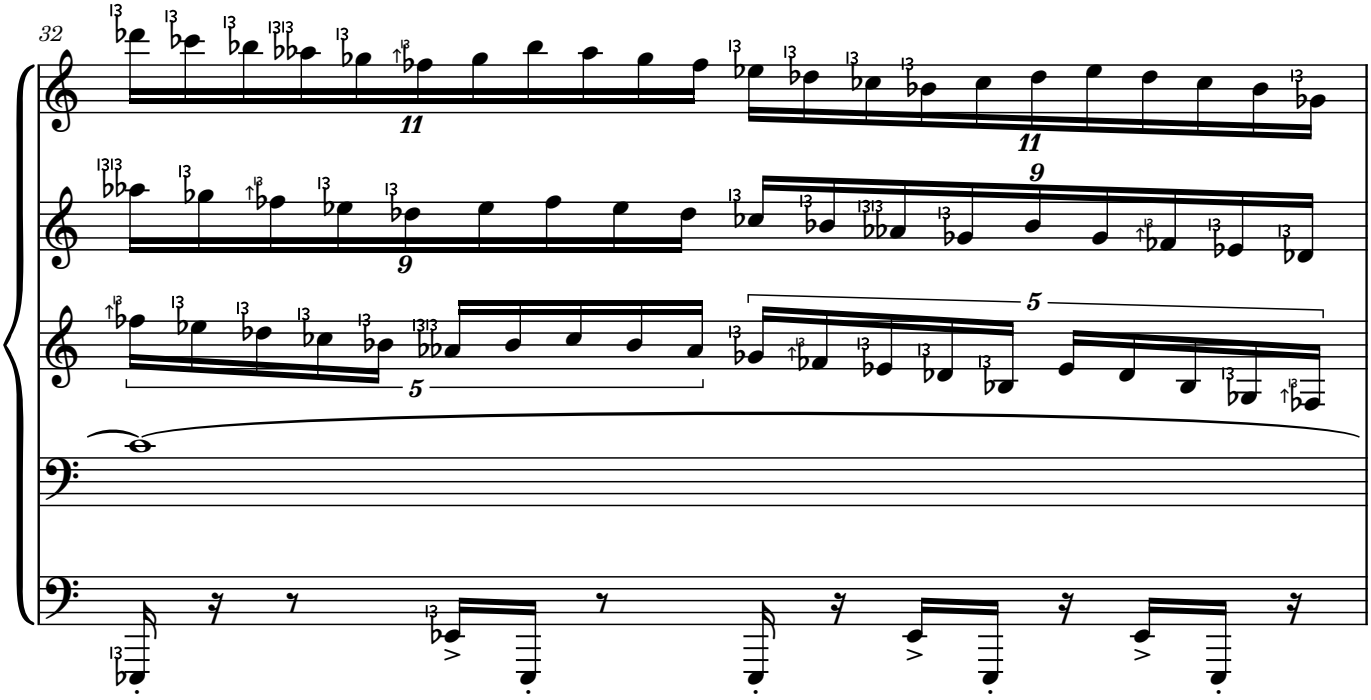

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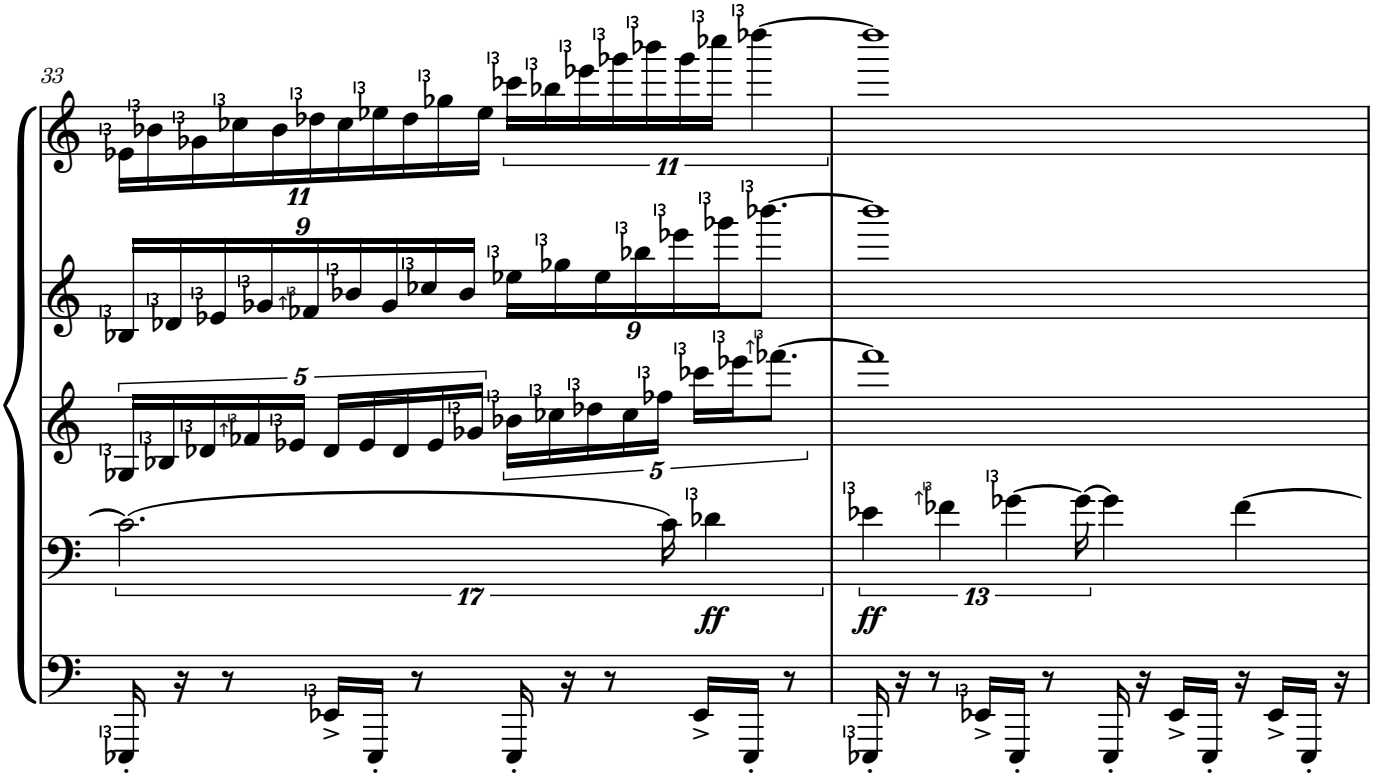

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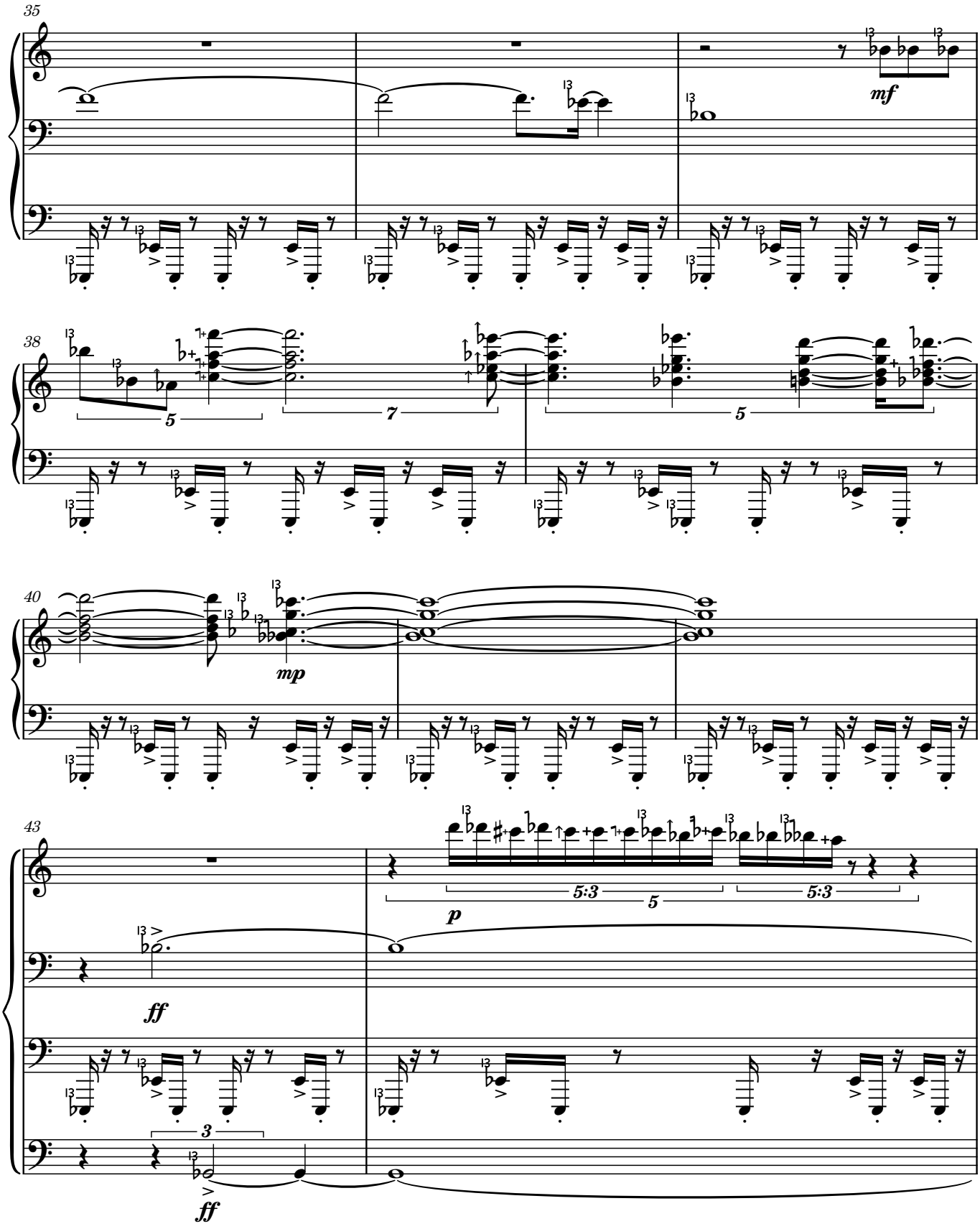

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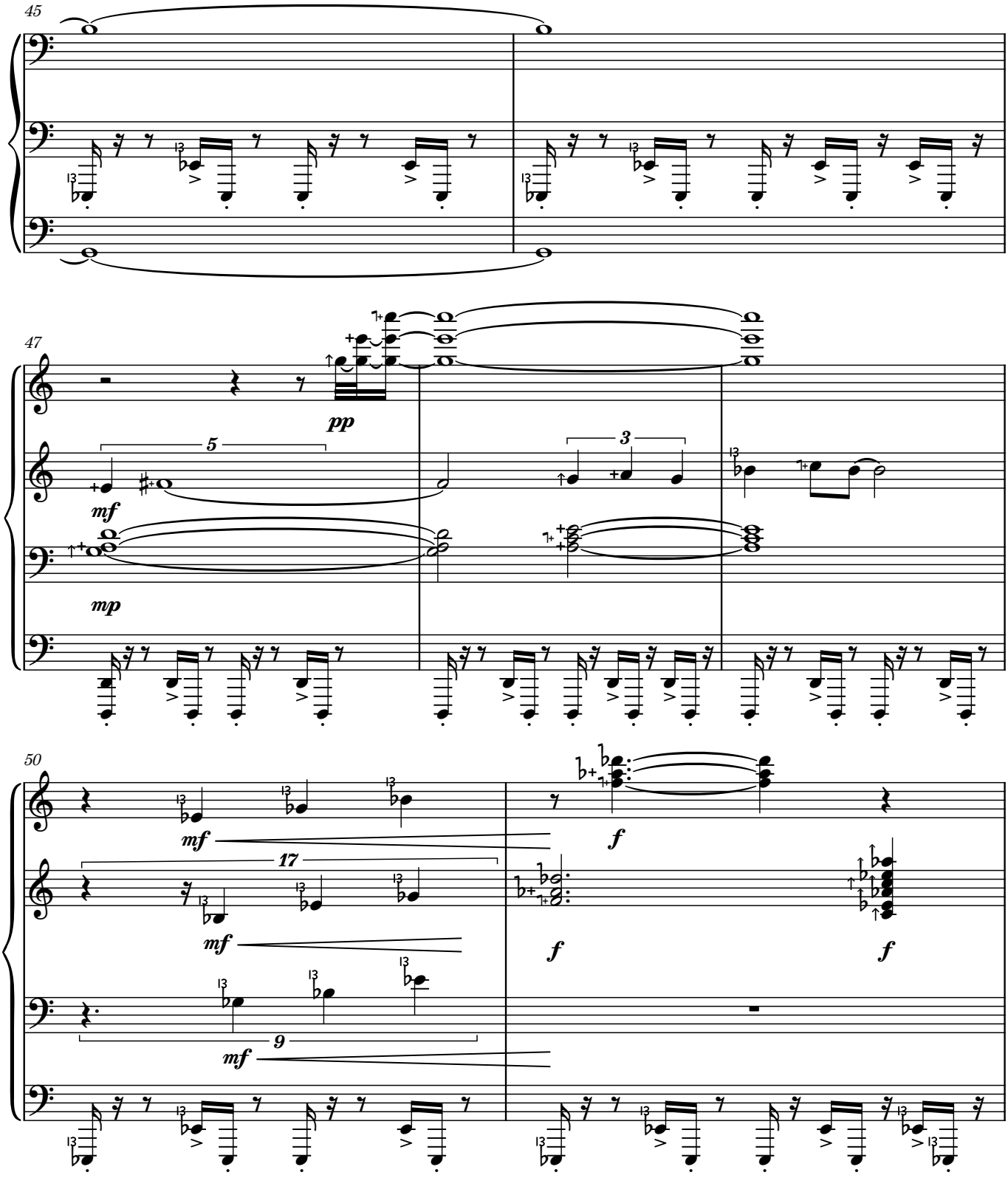

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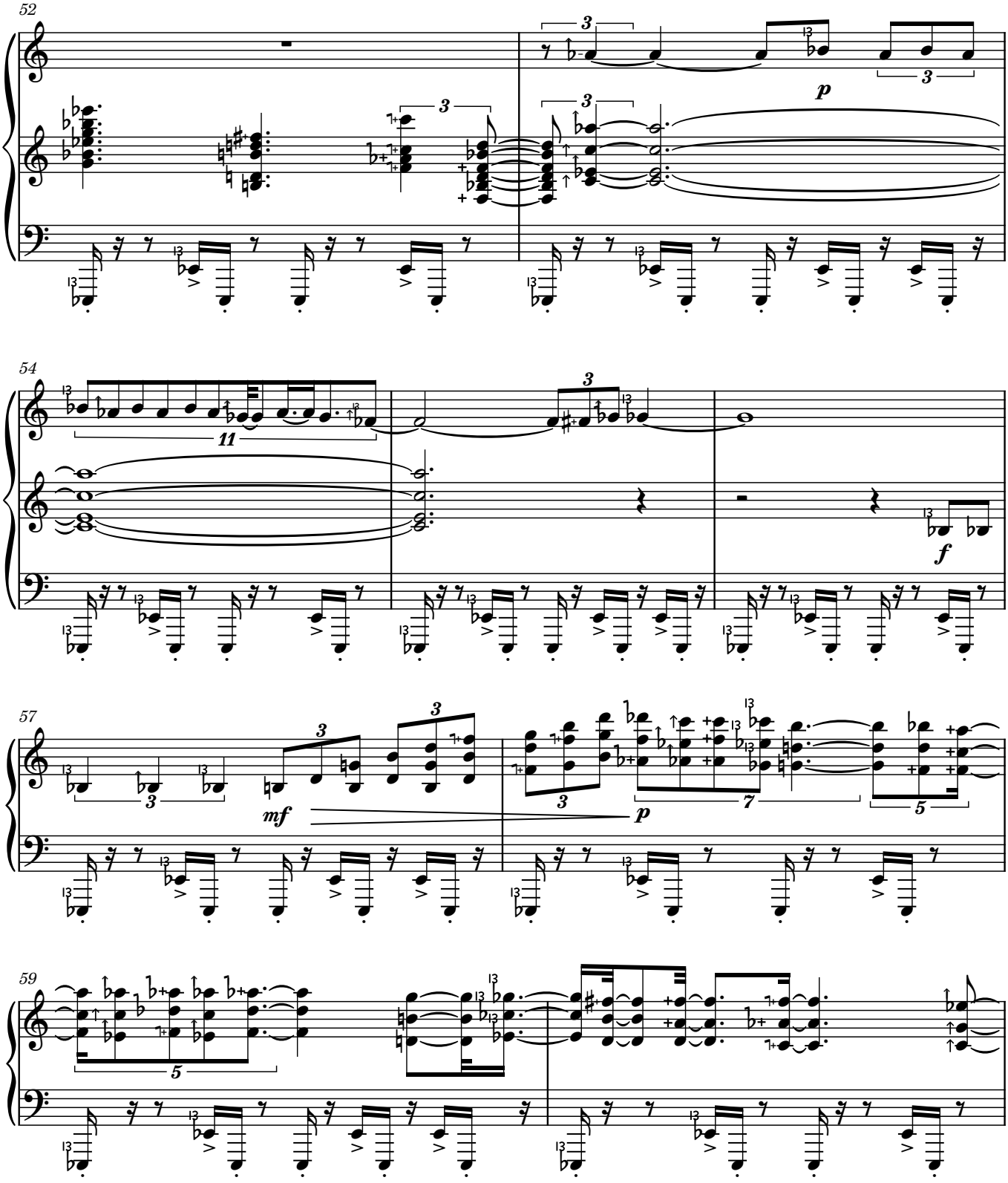

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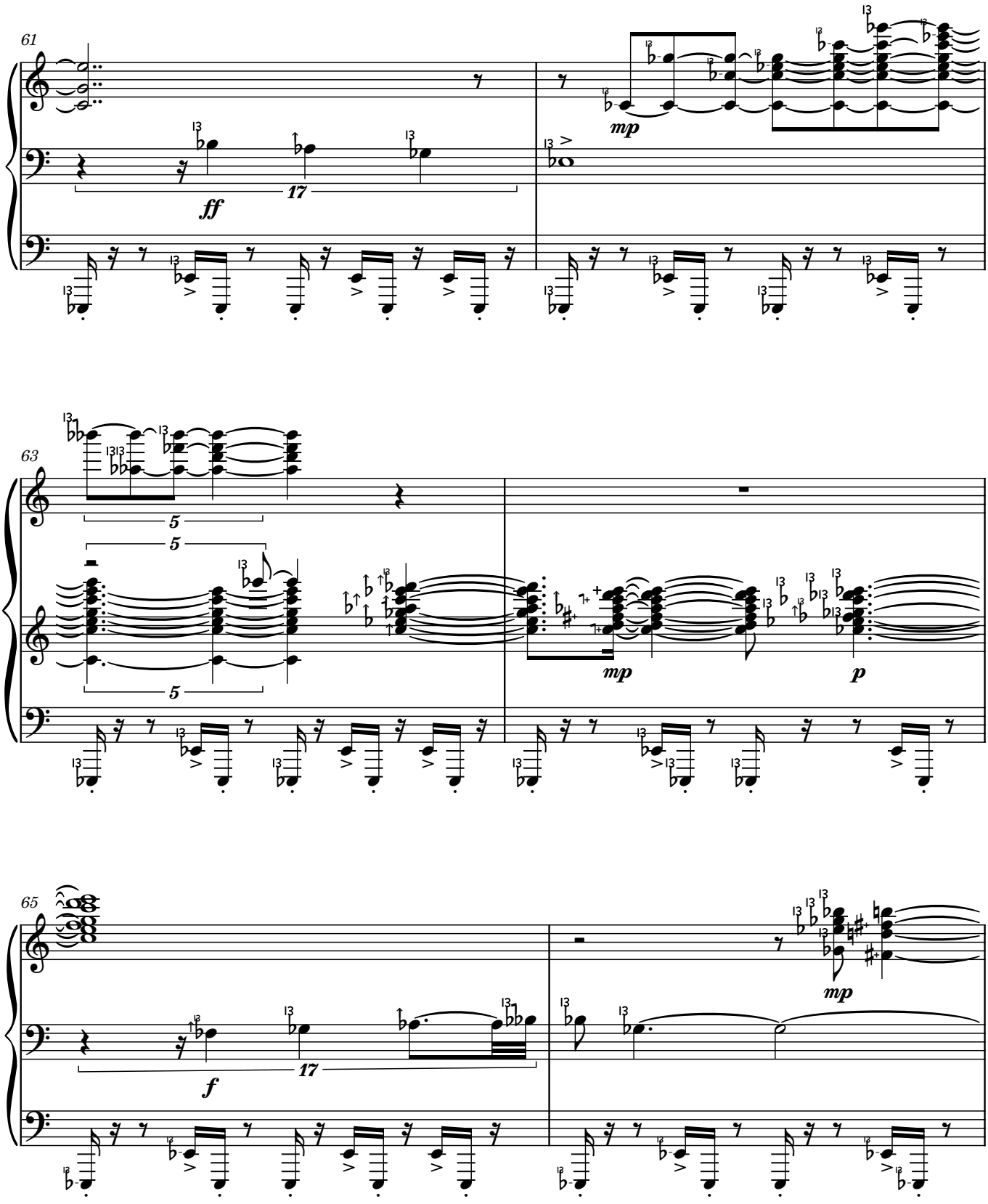

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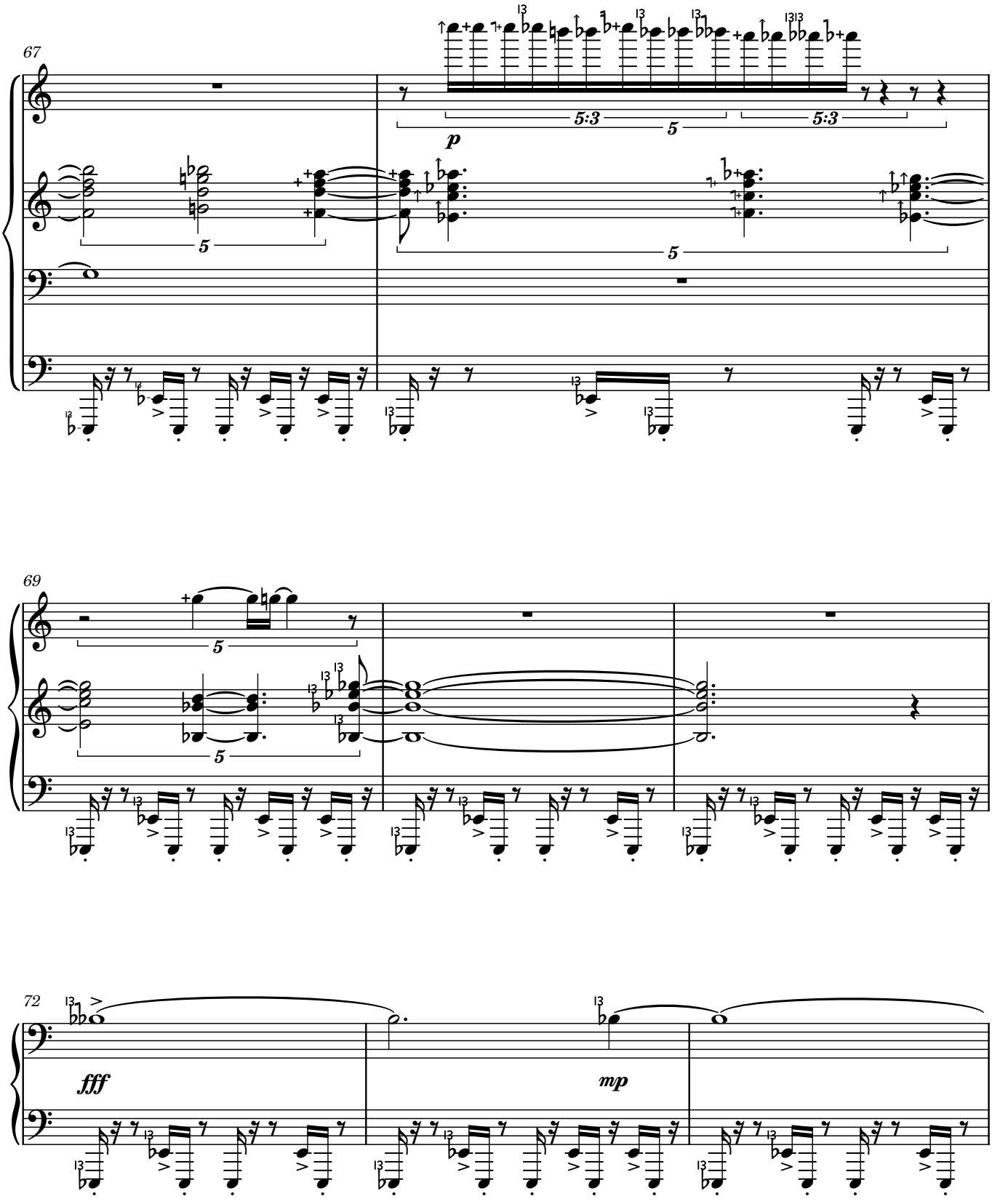

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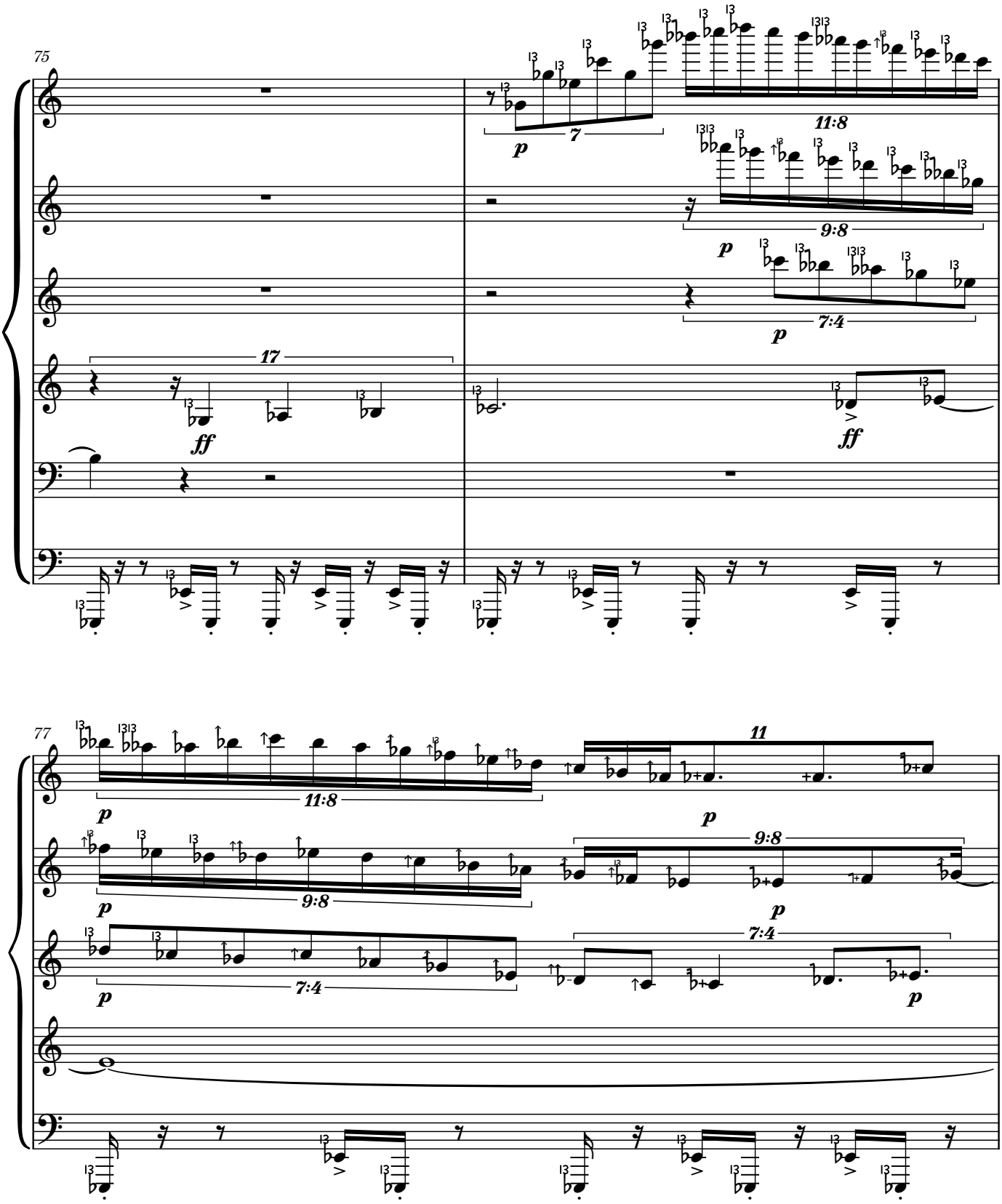

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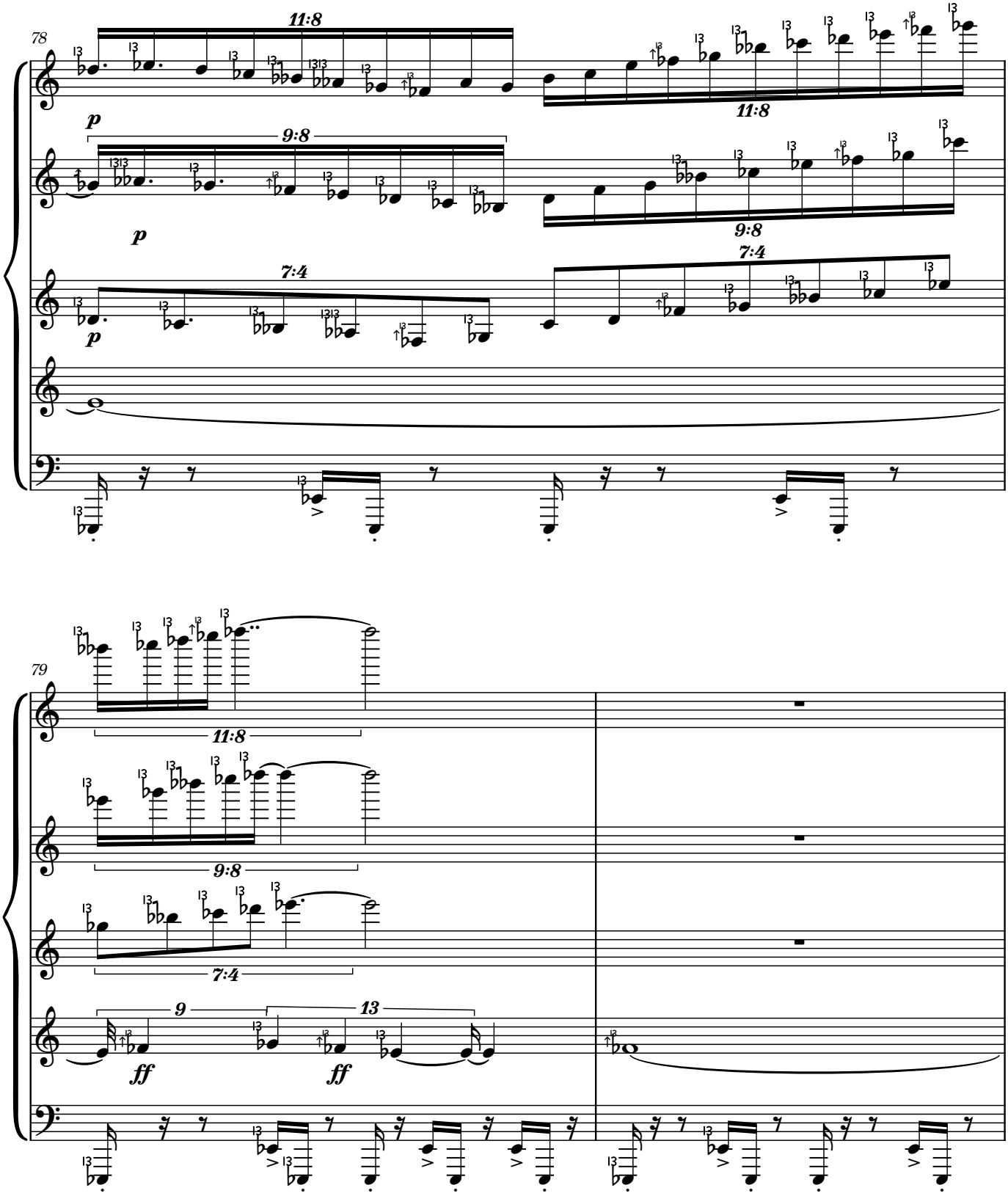

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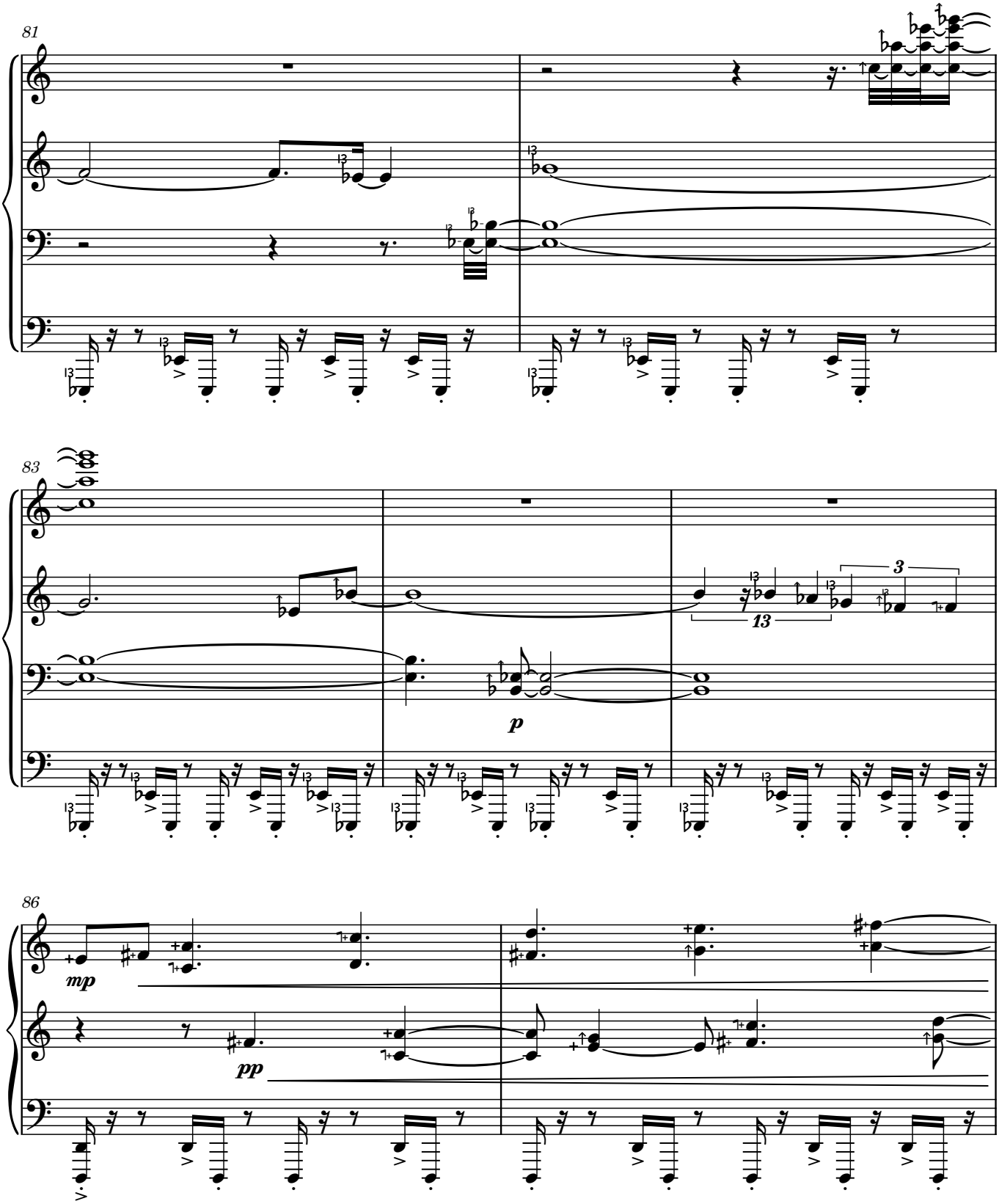

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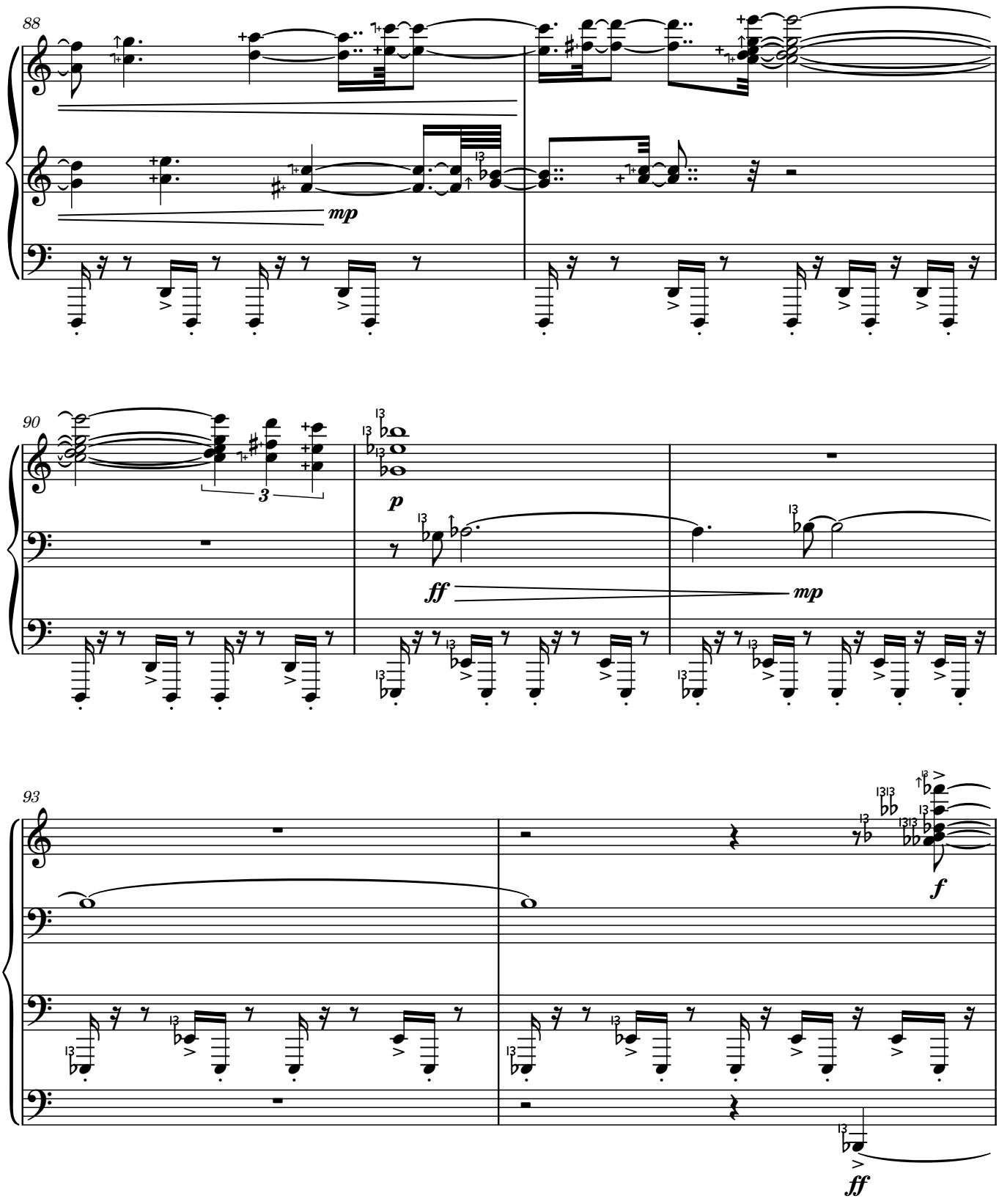

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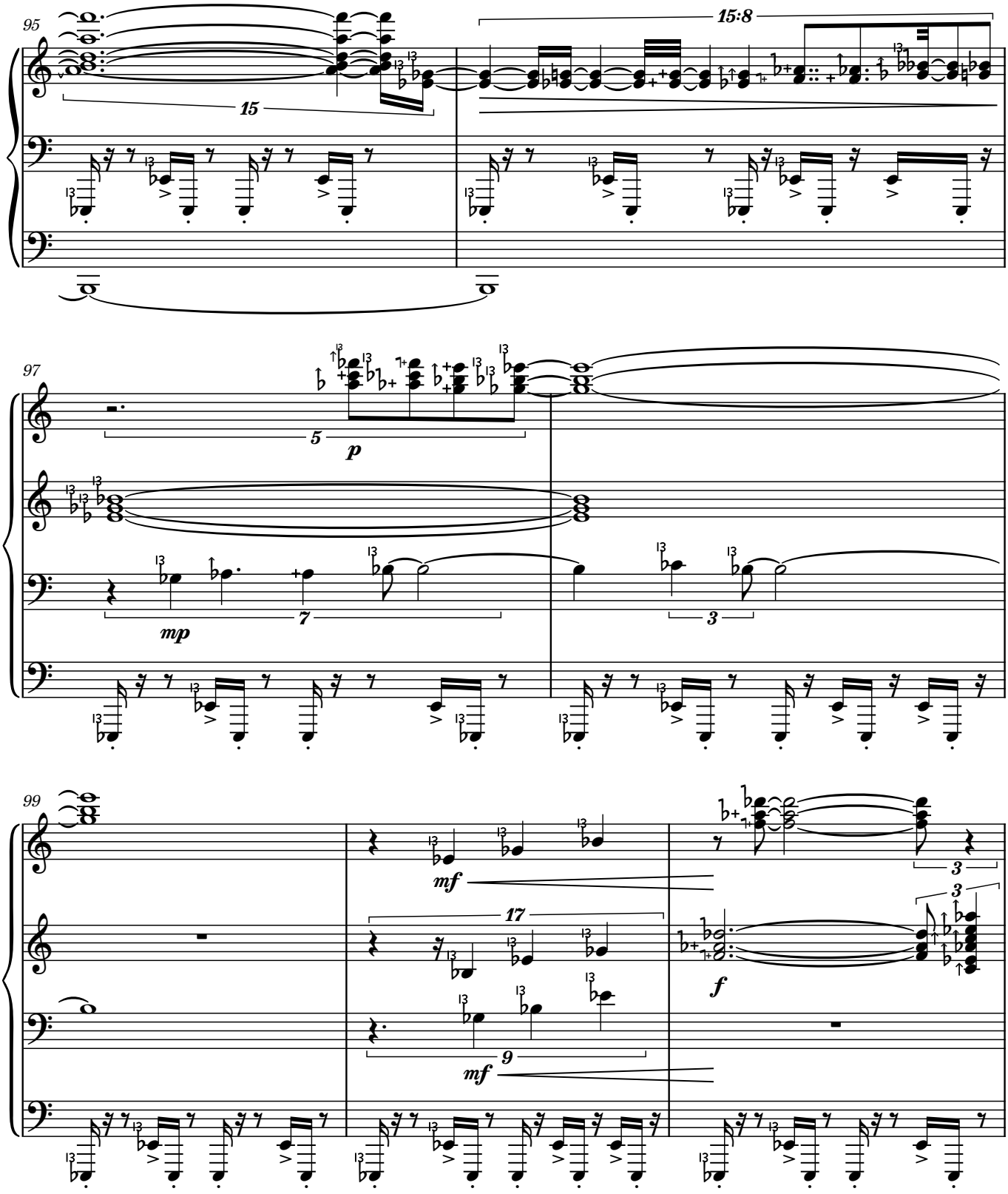

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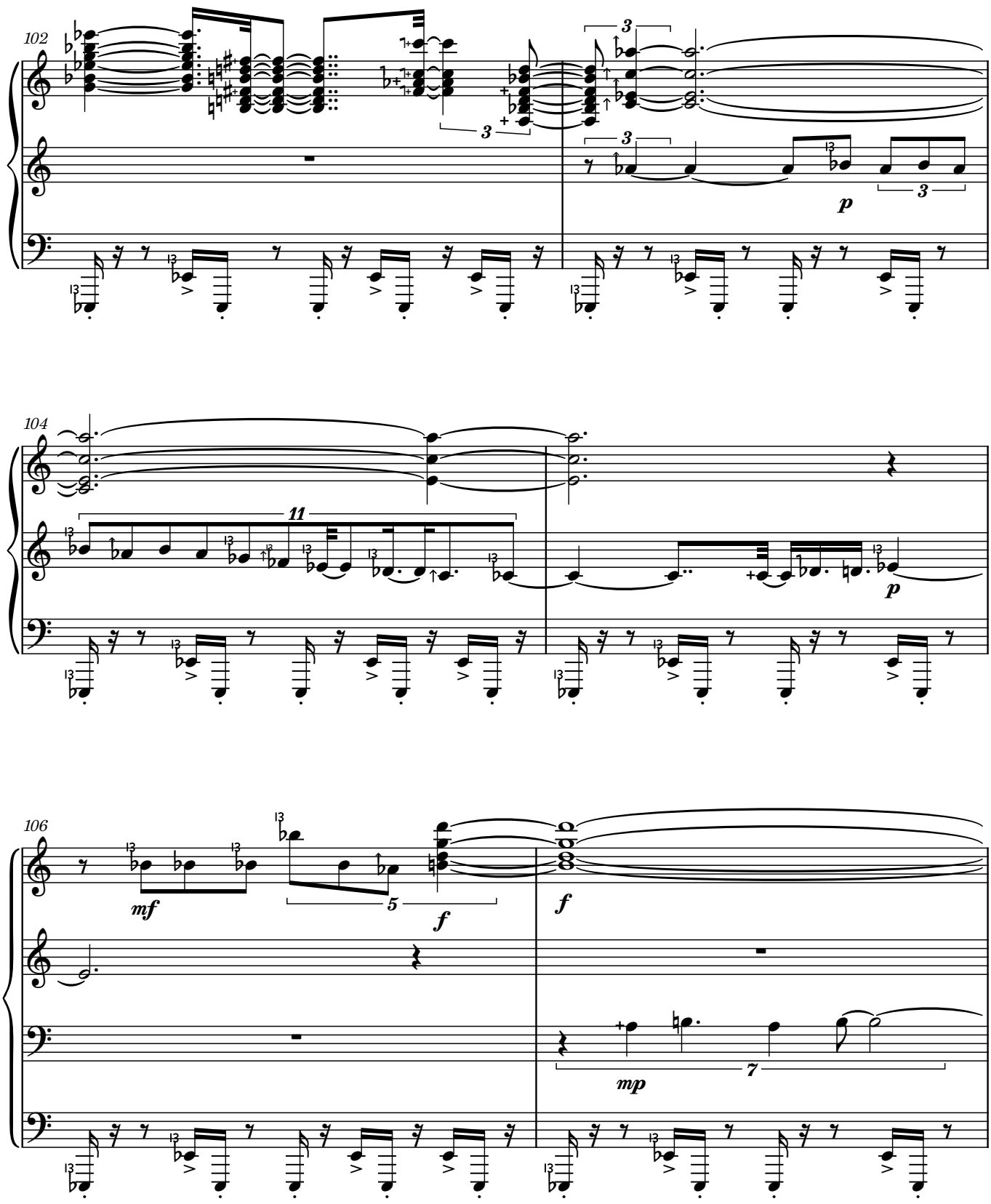

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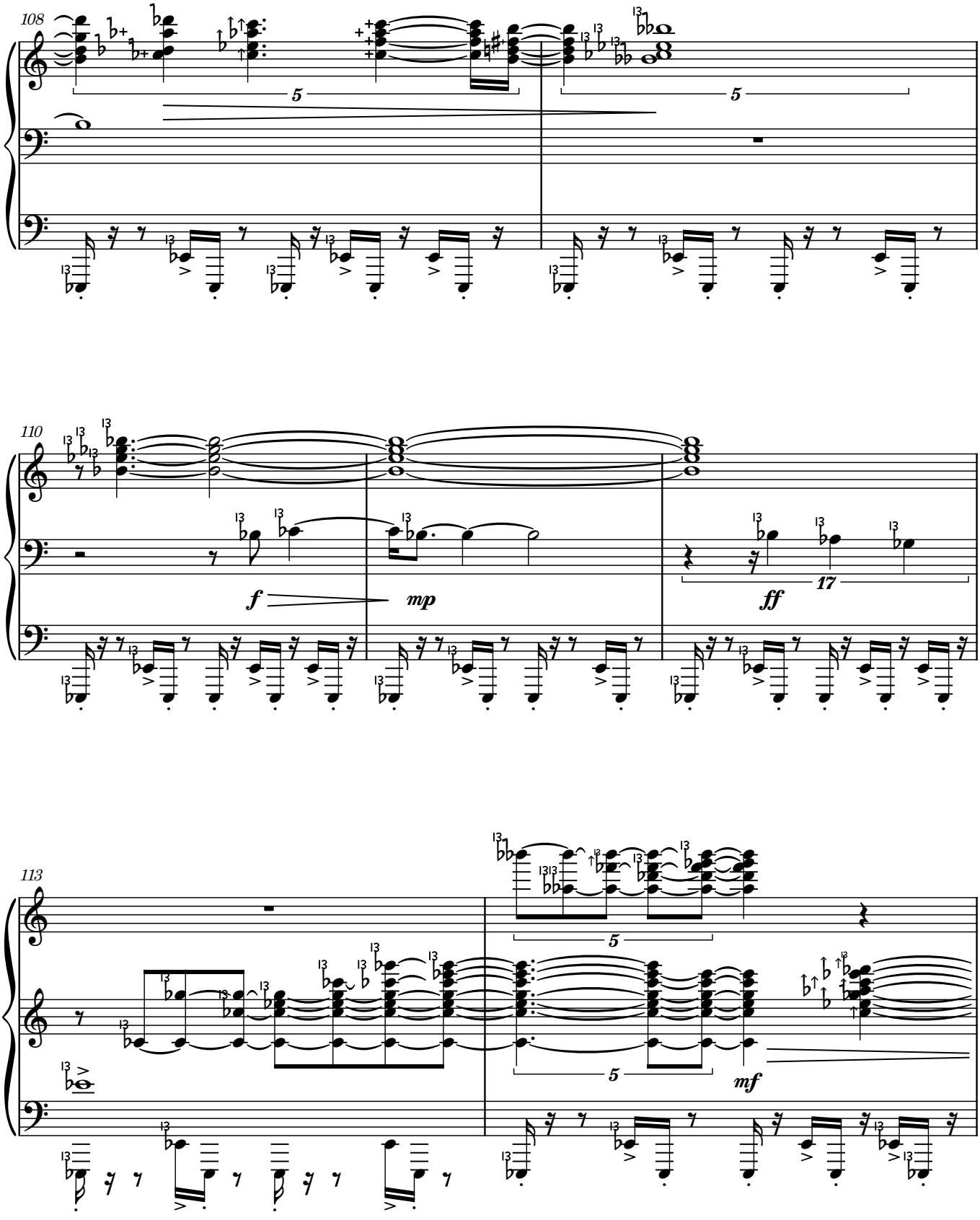

78
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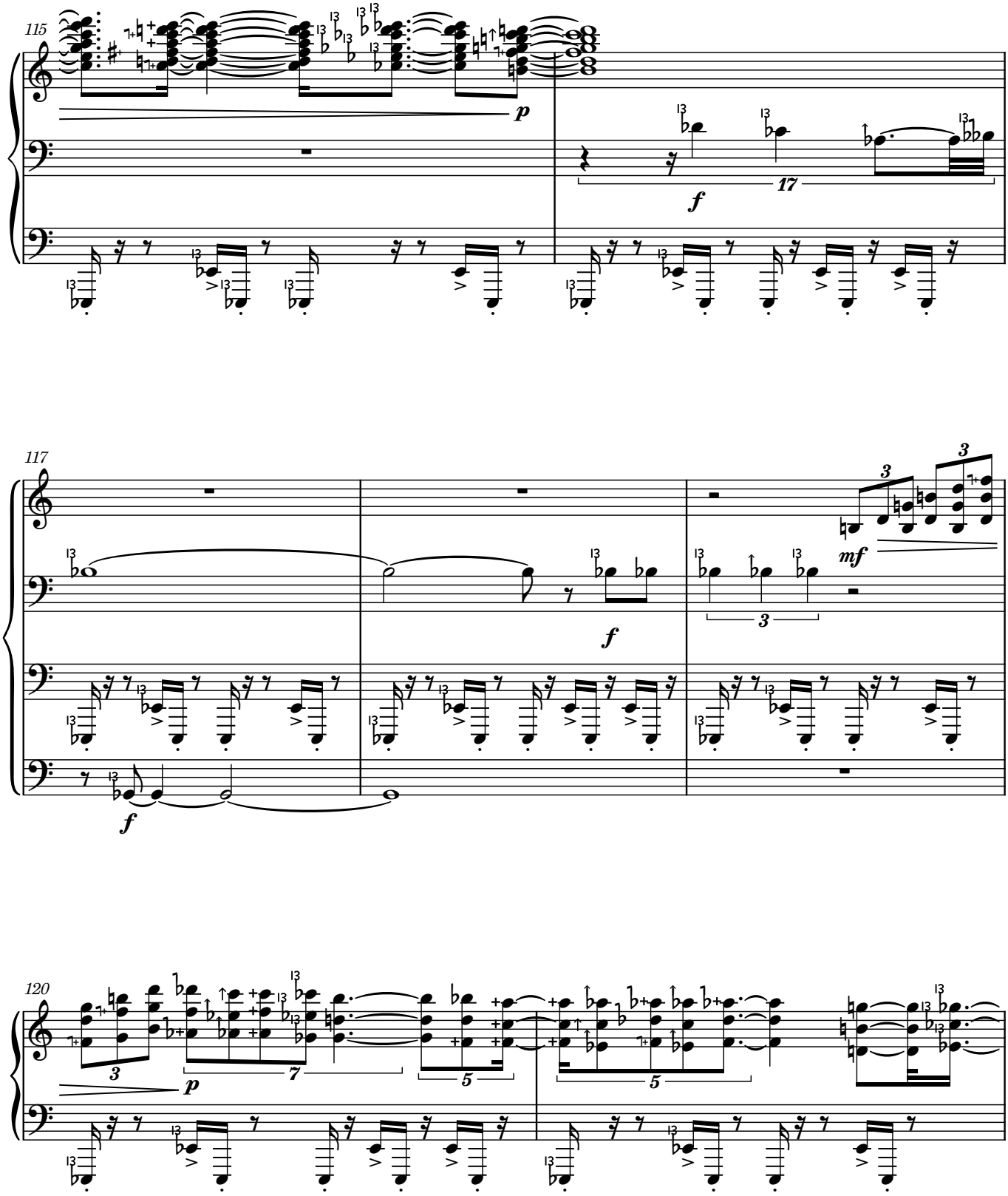

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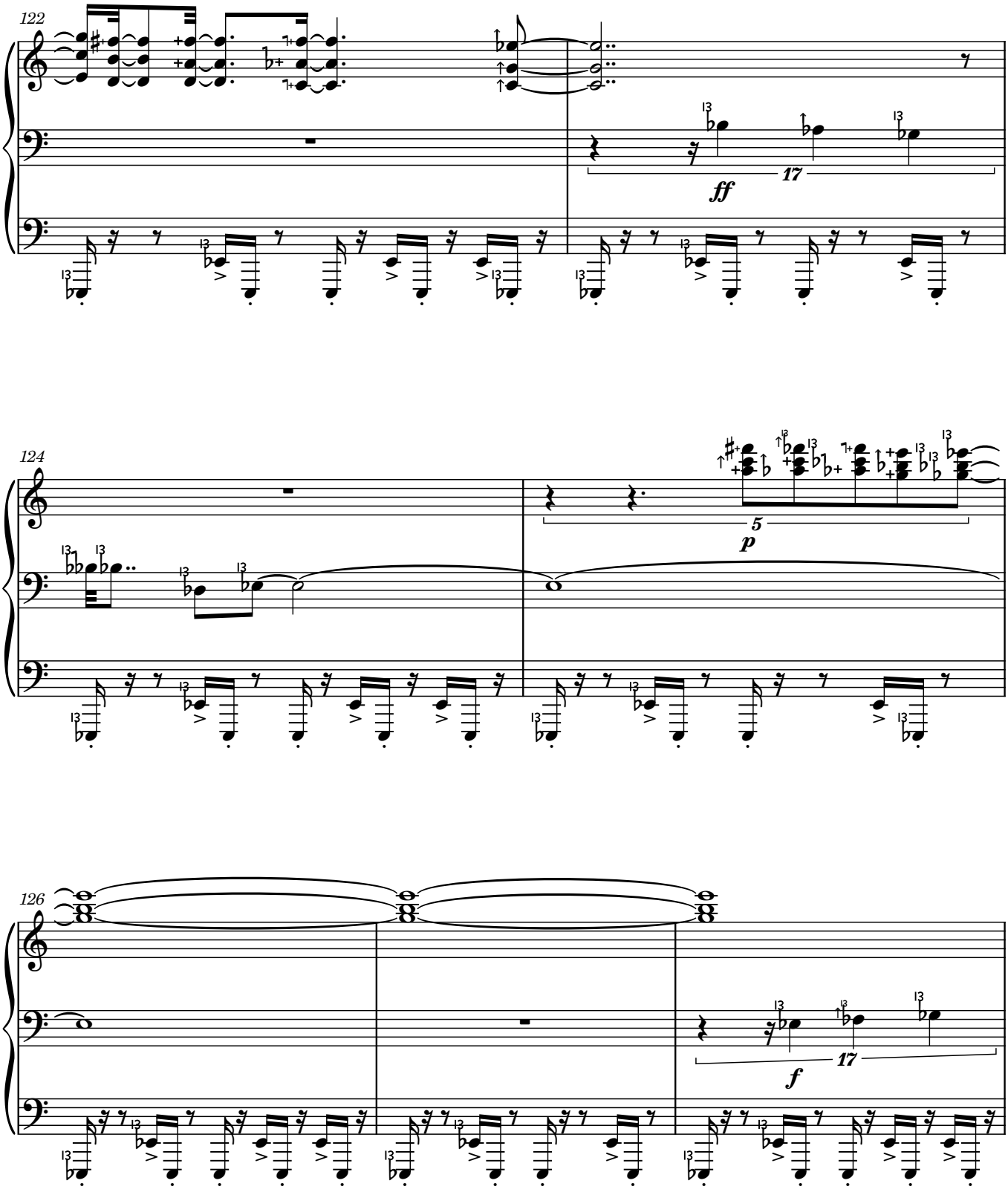

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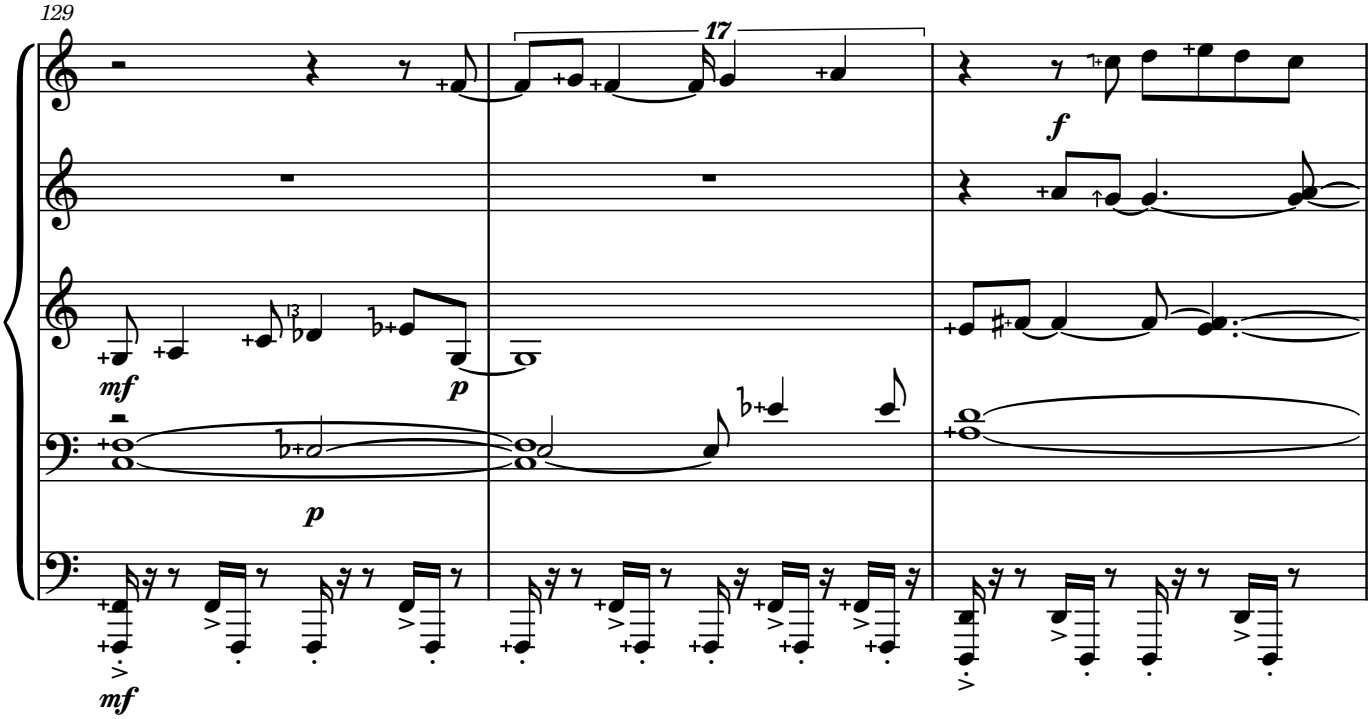

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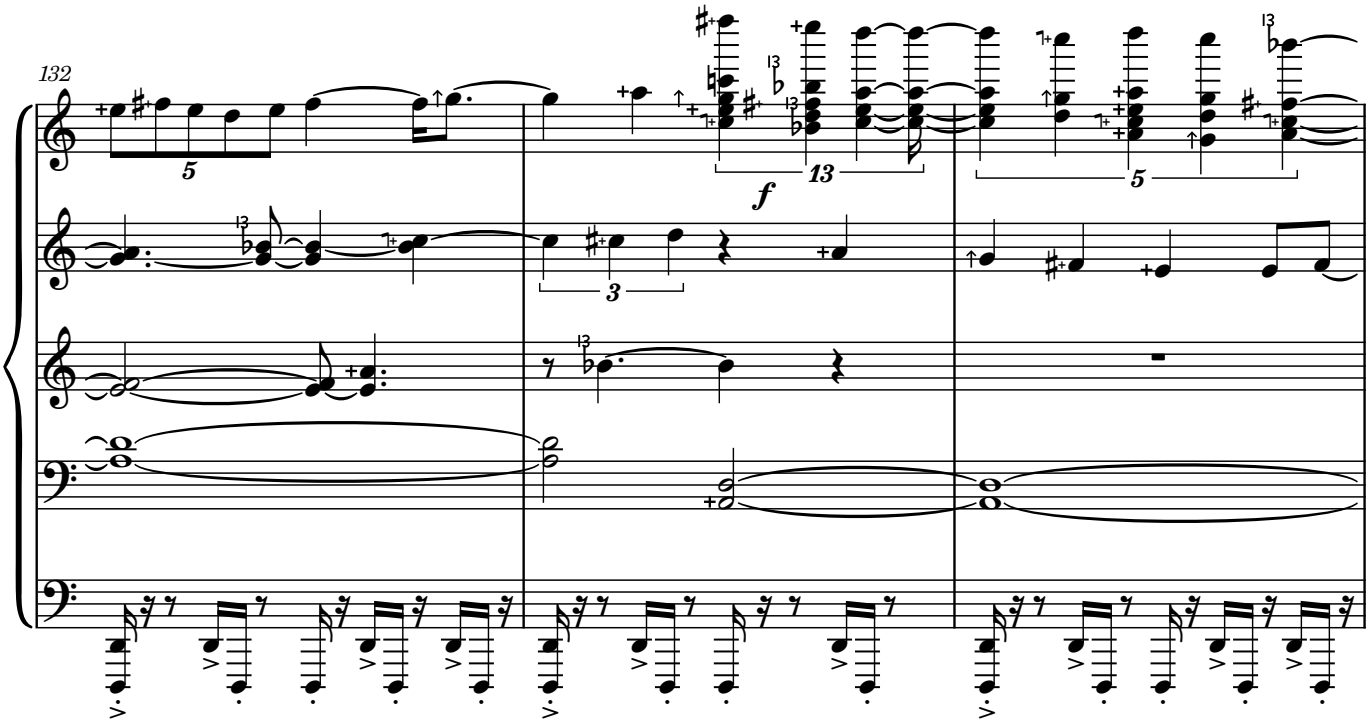

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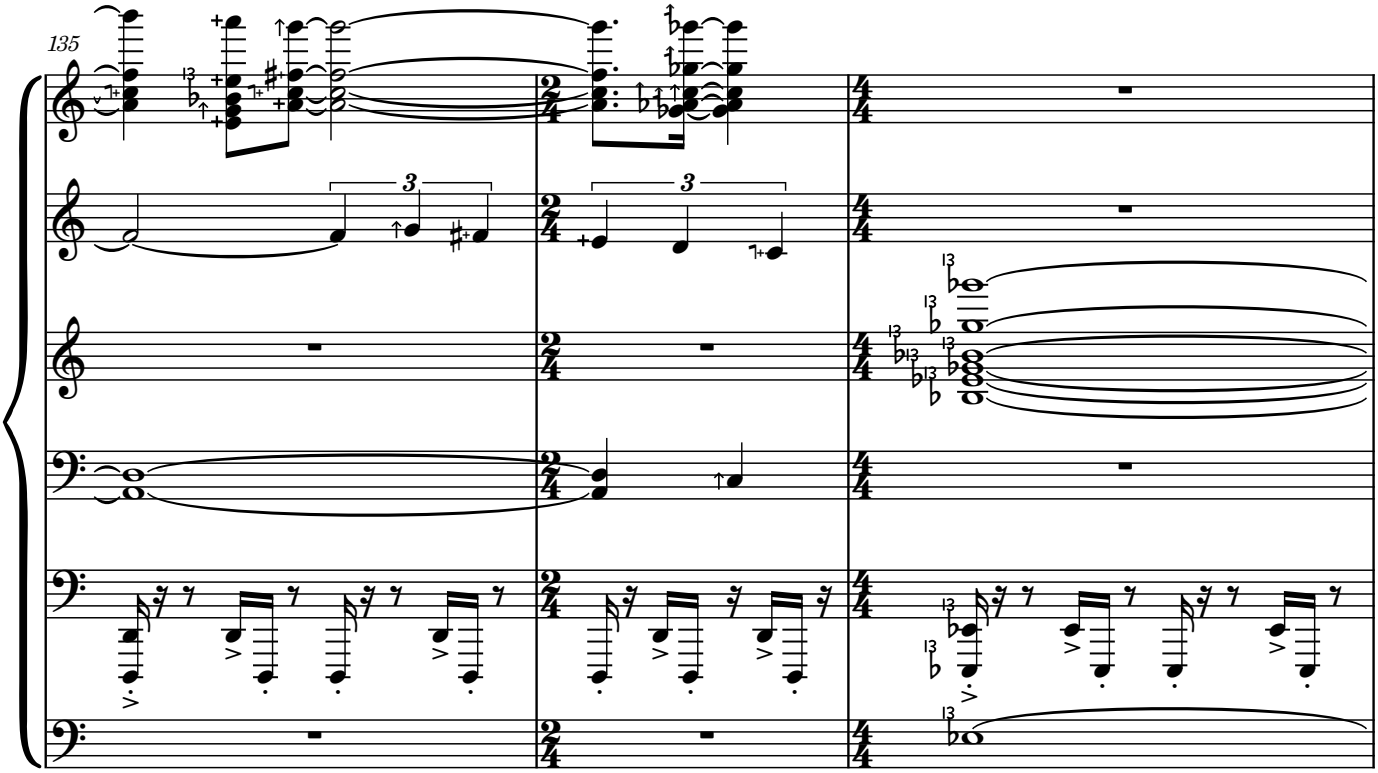

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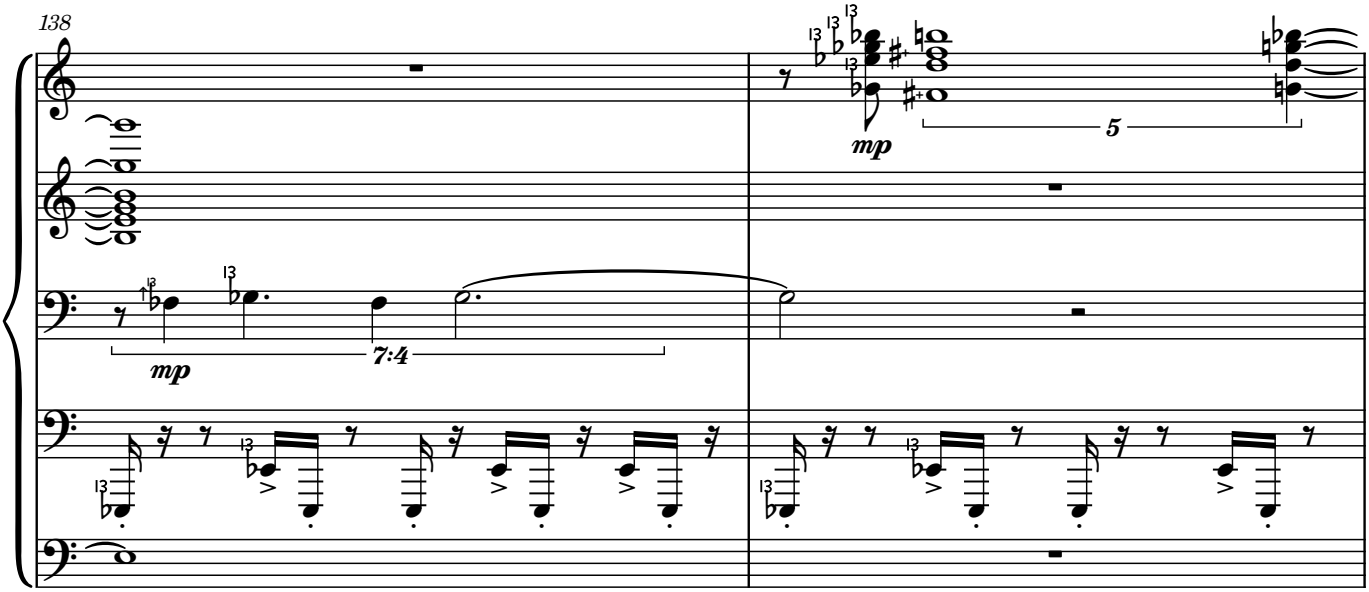

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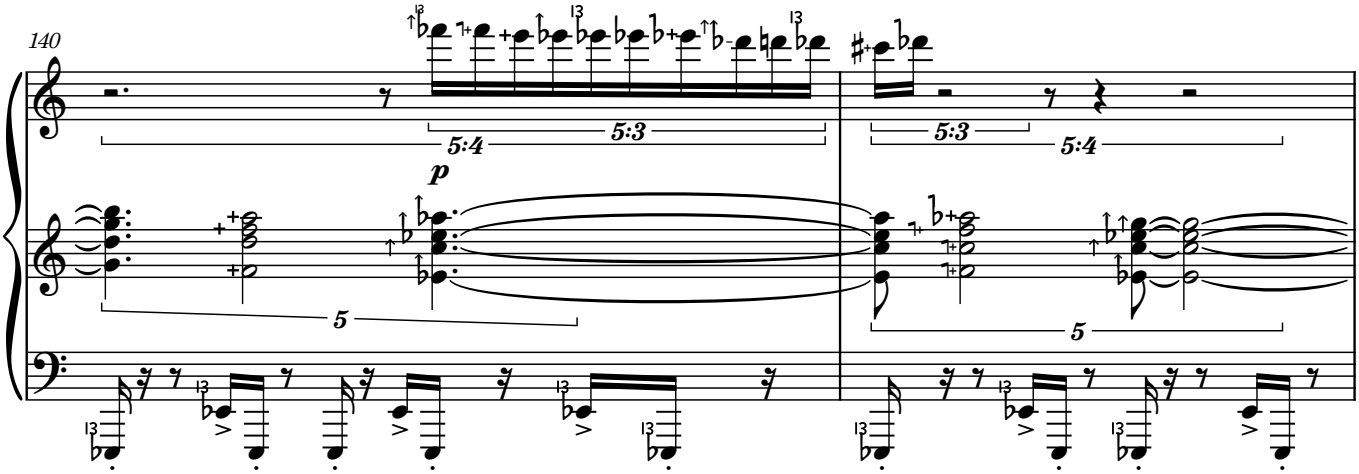

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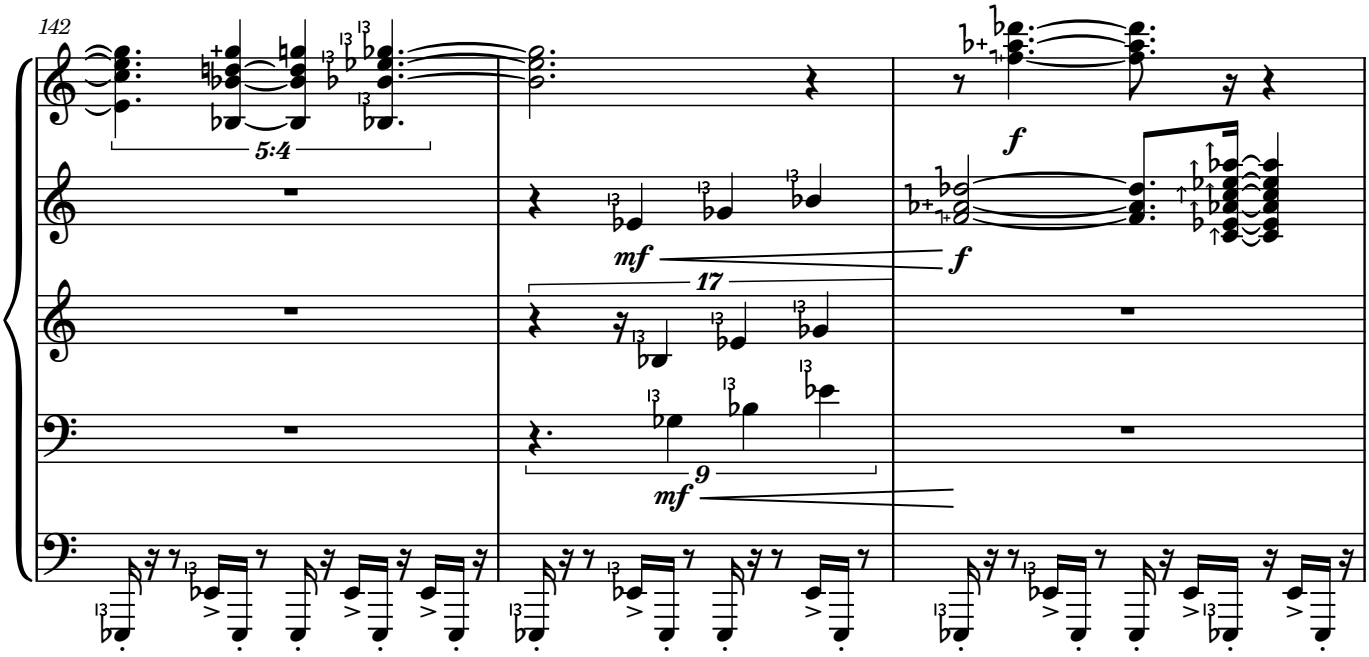

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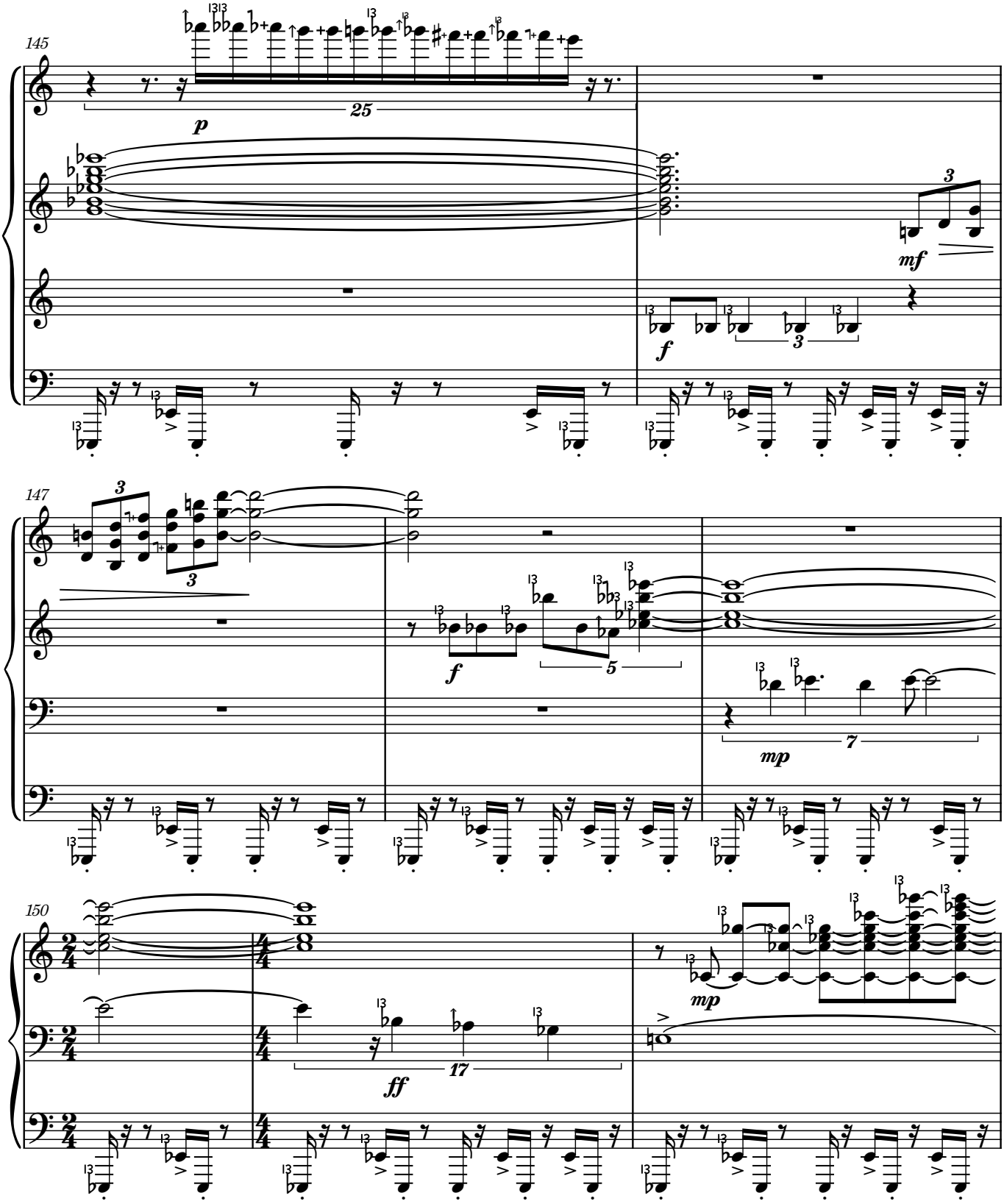

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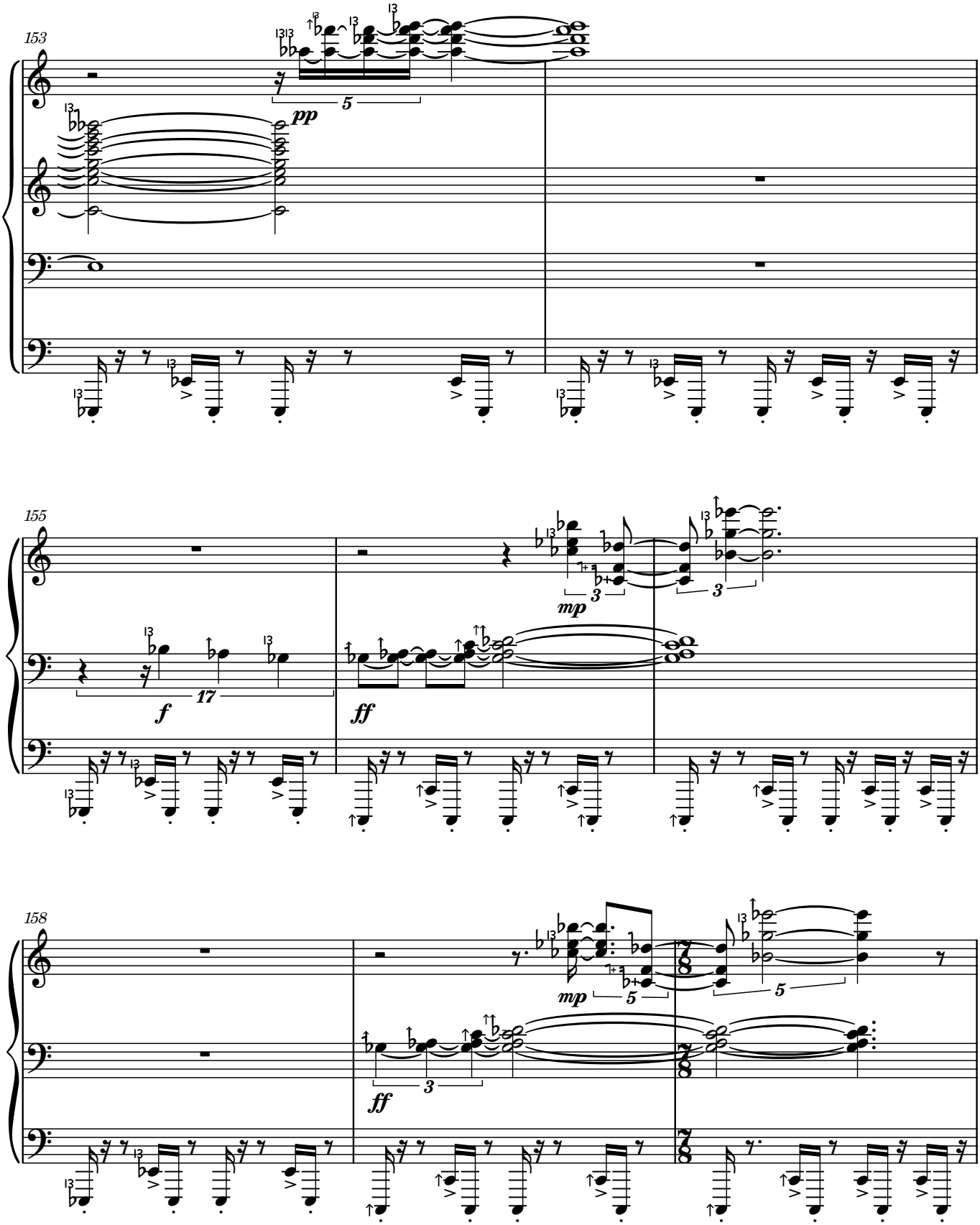

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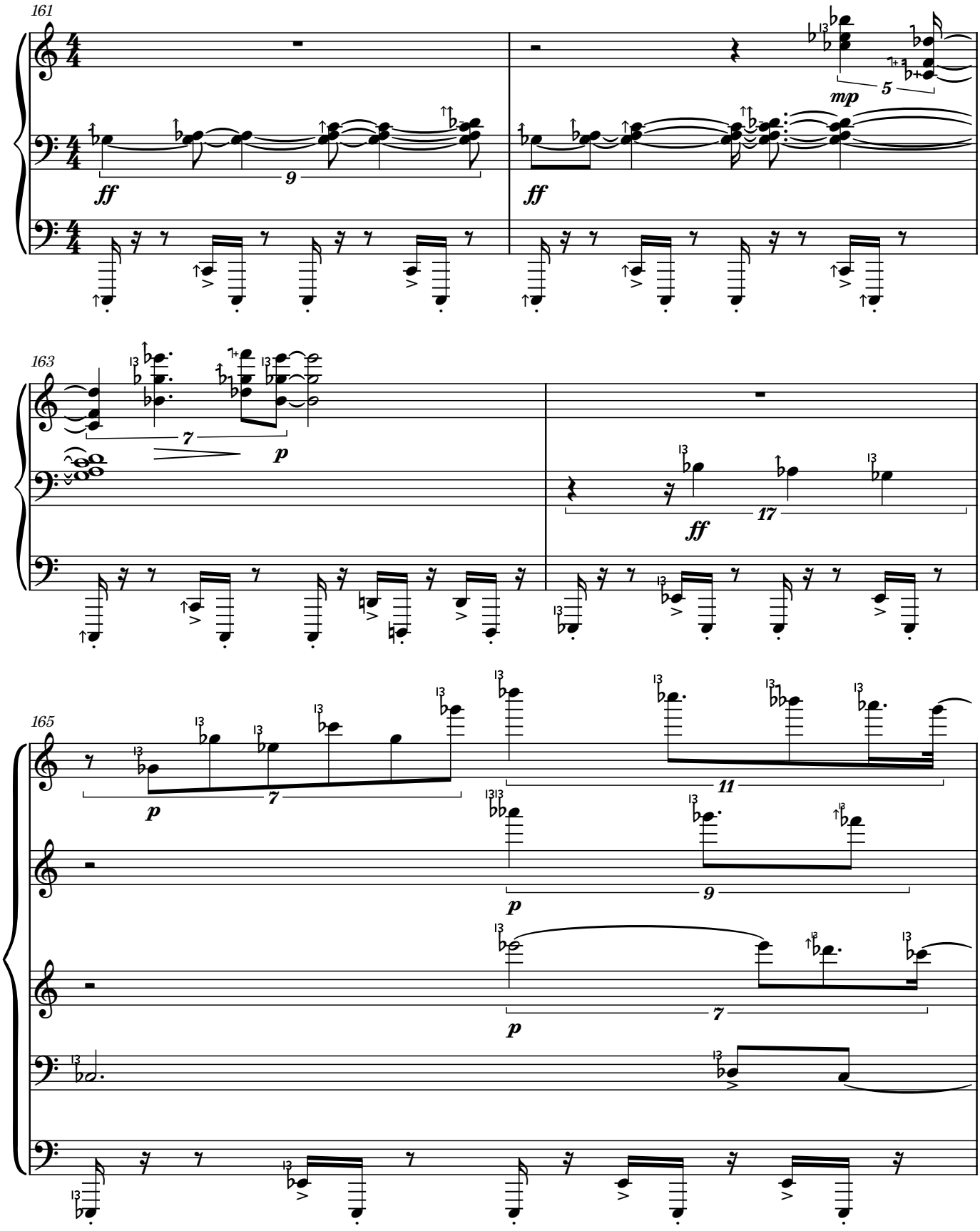

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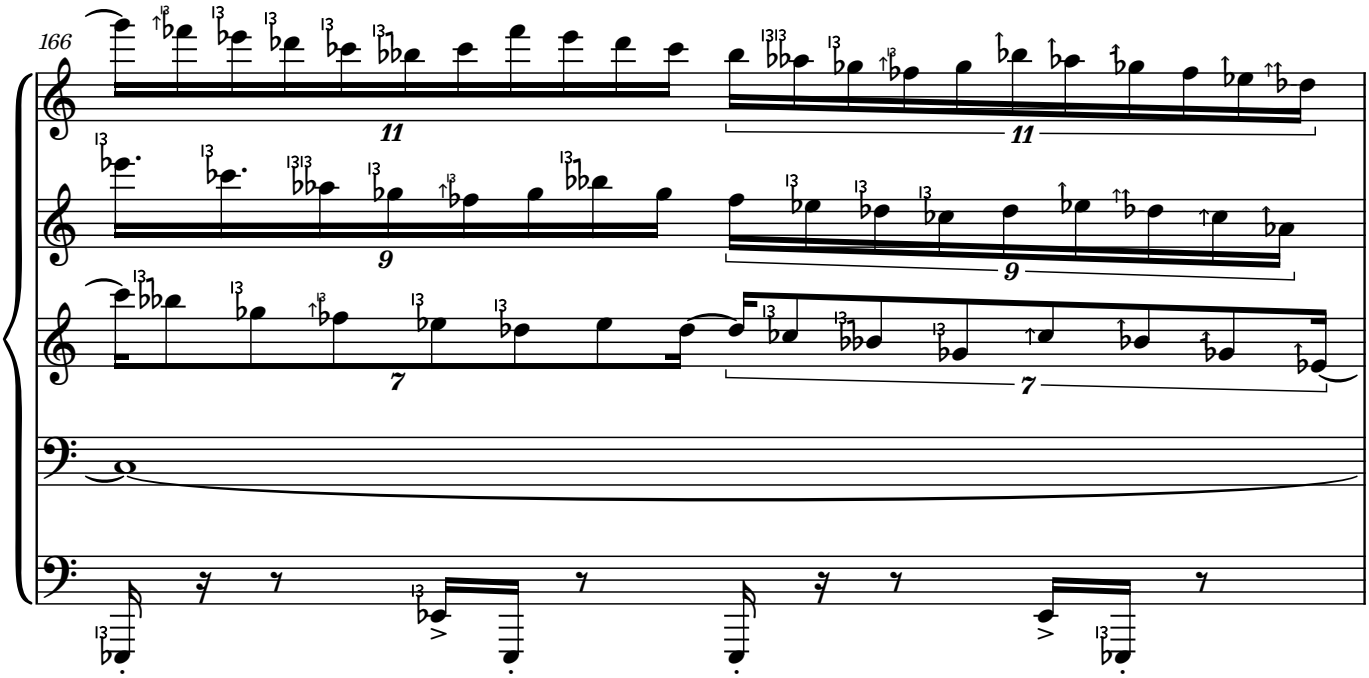

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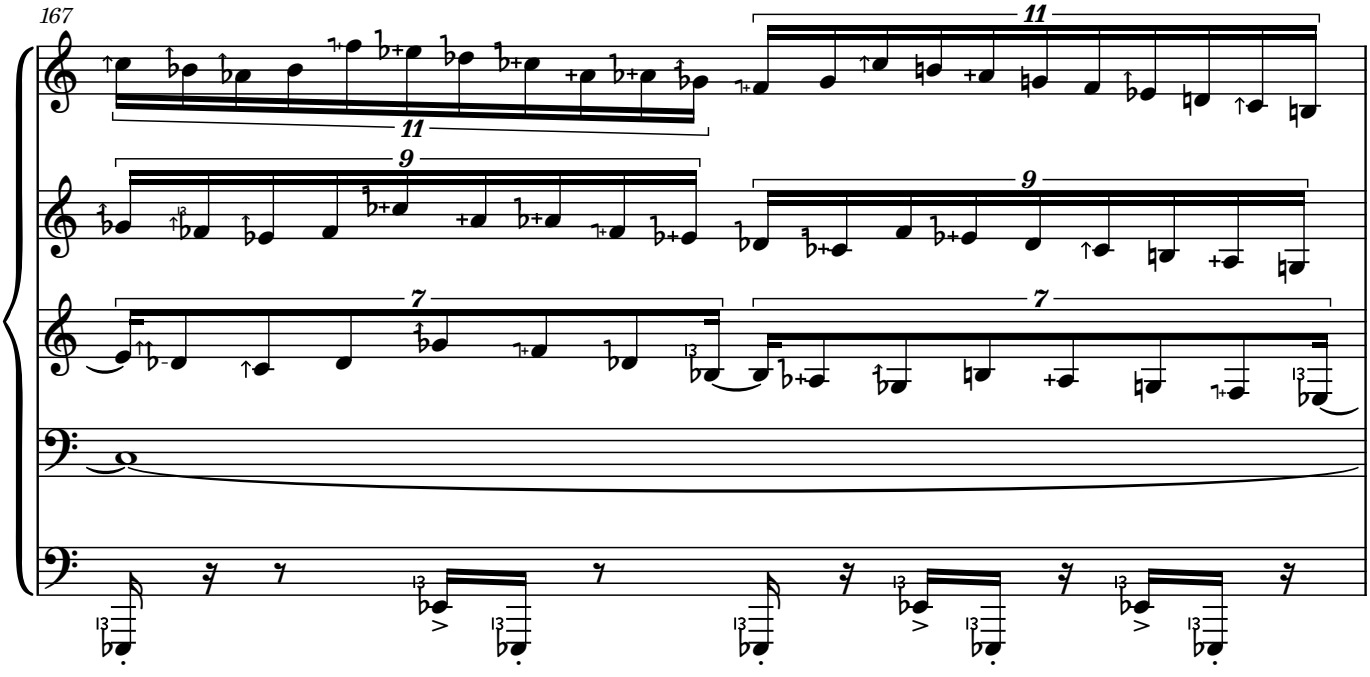

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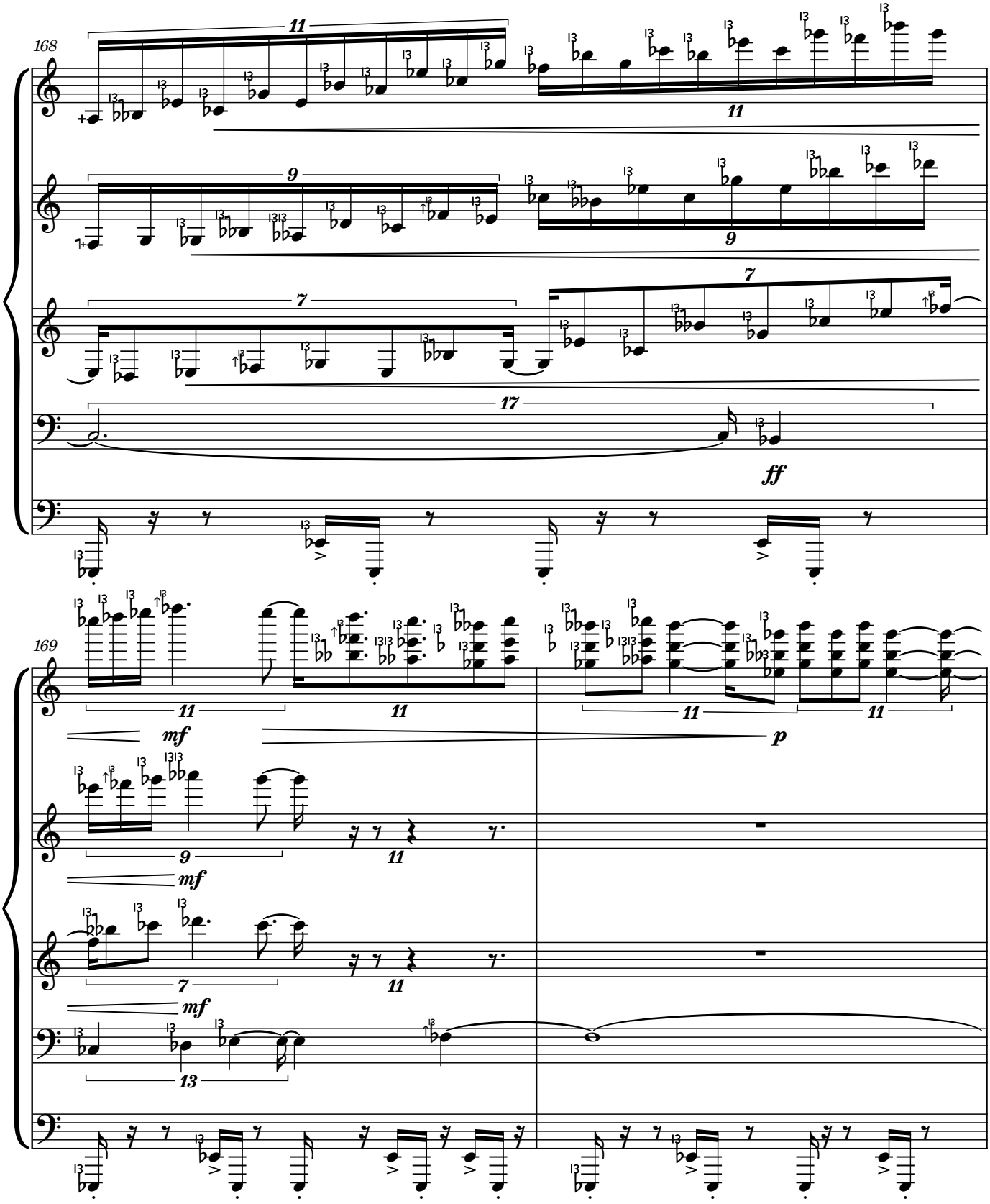

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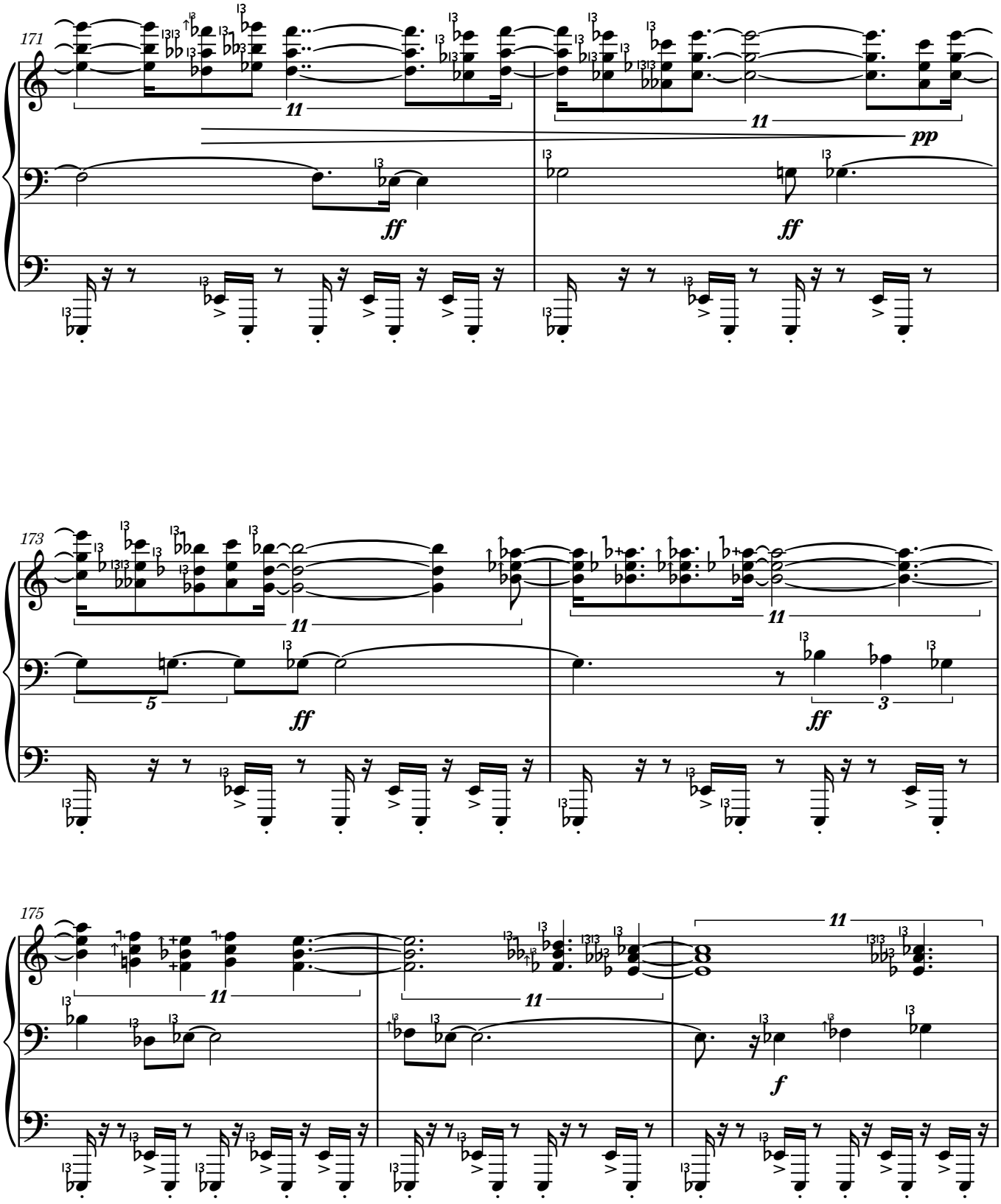

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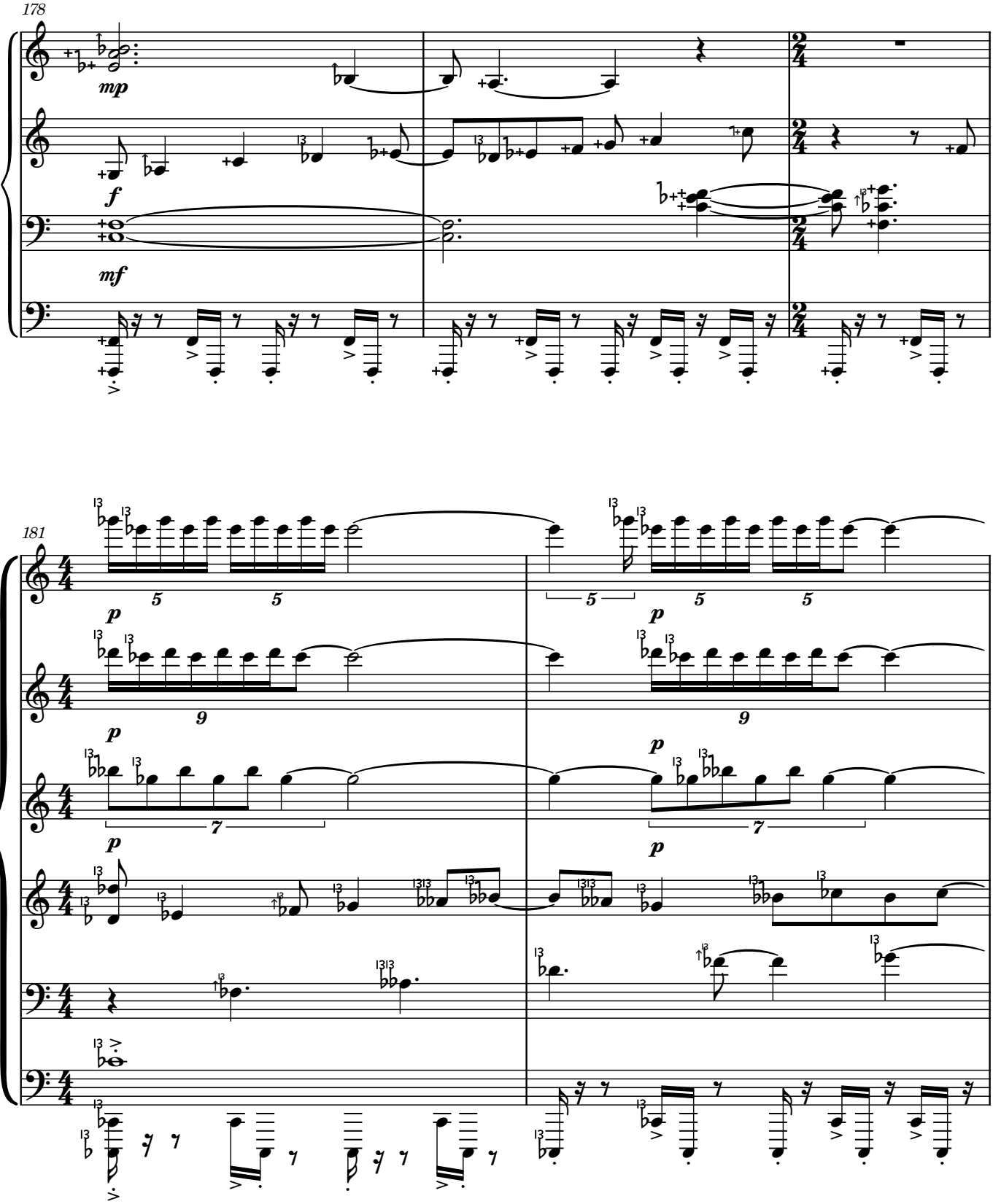

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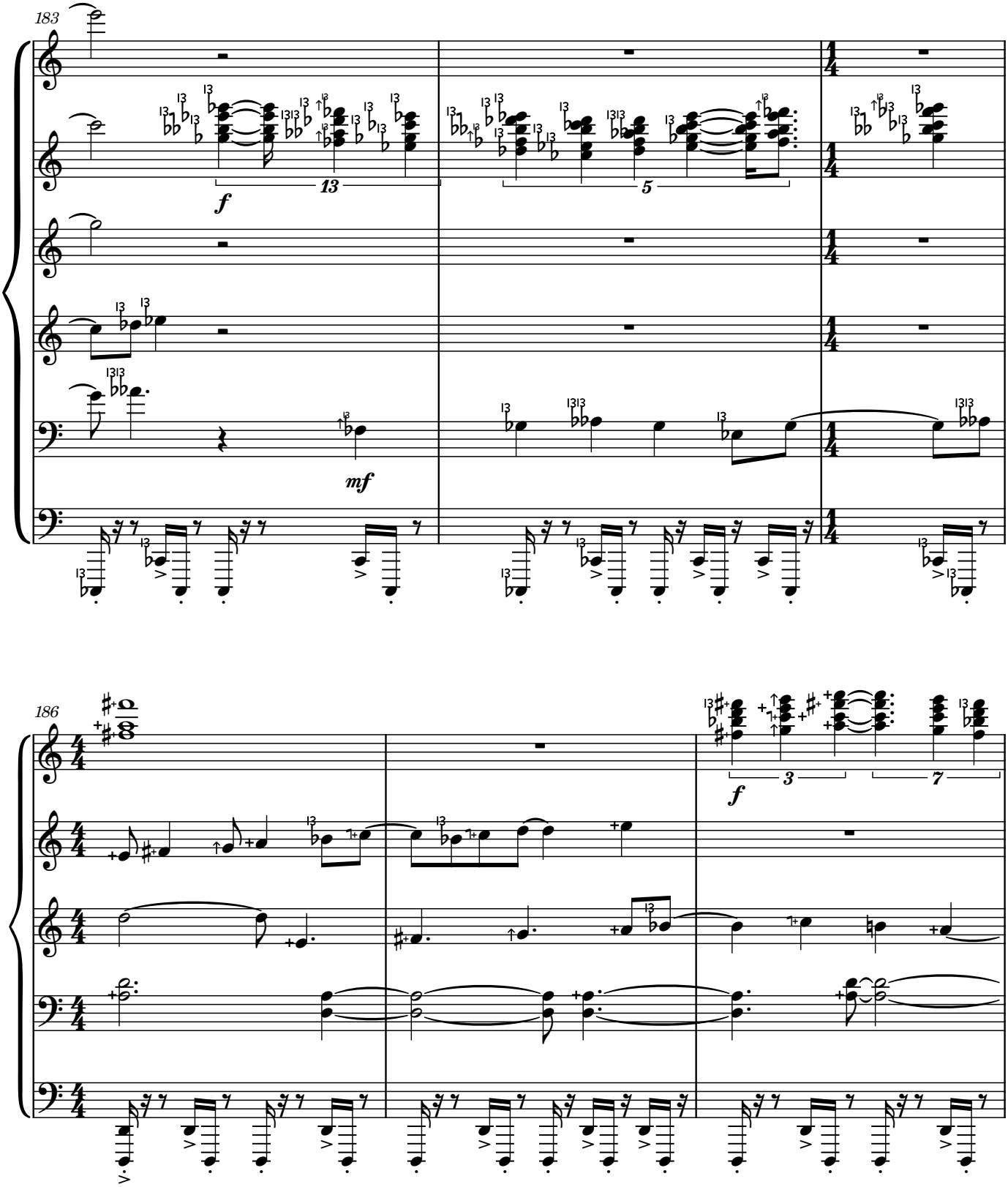

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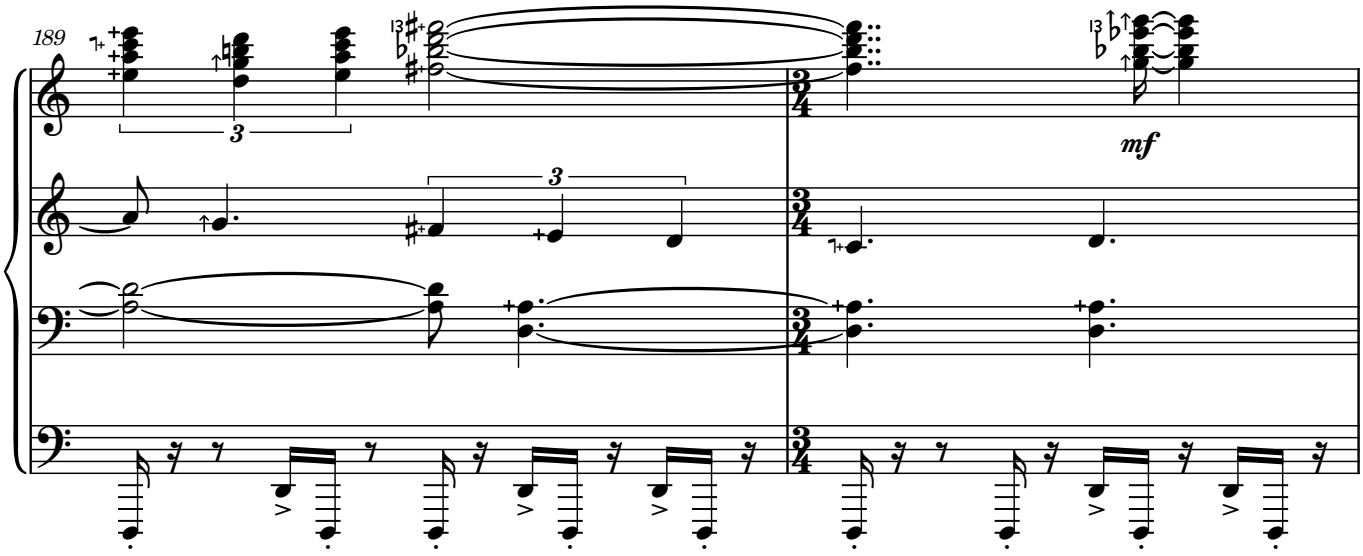

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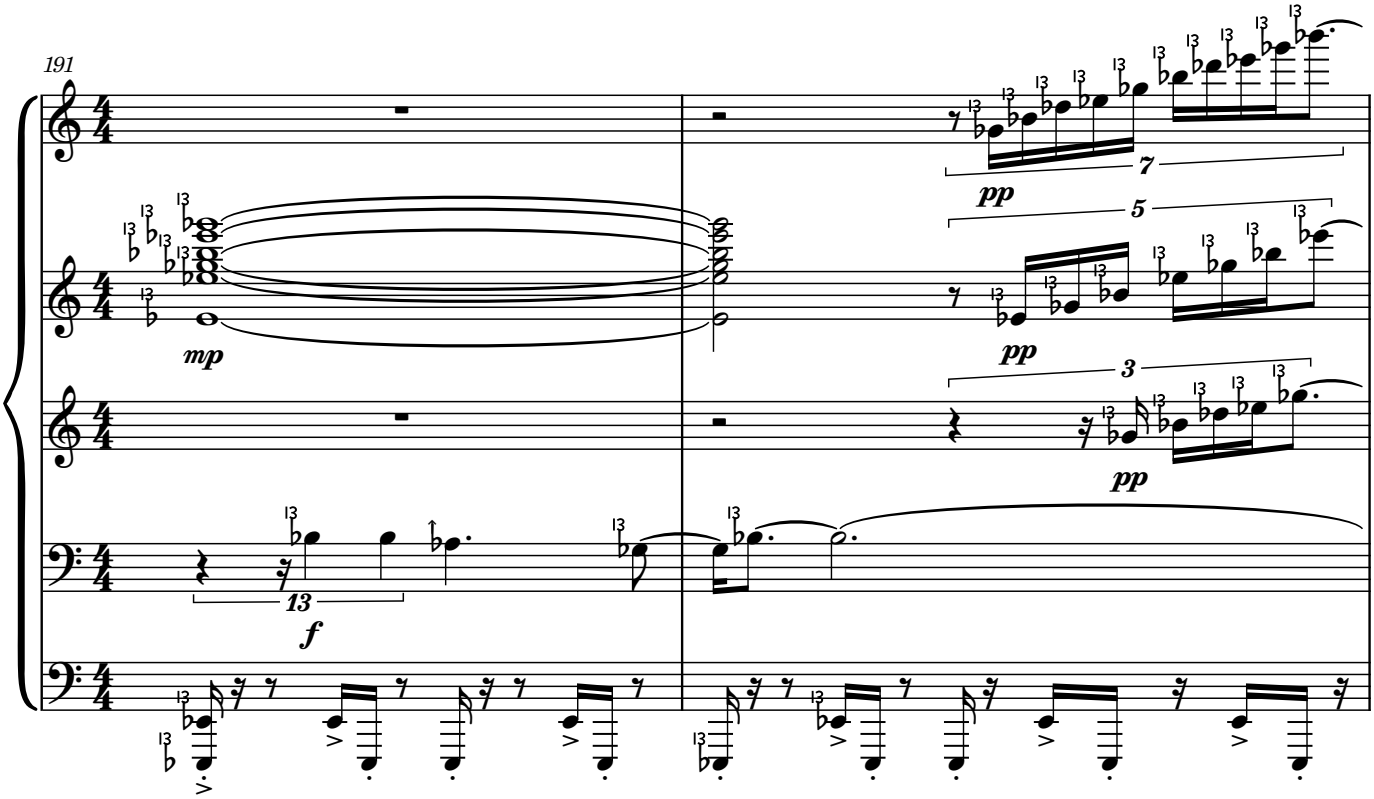

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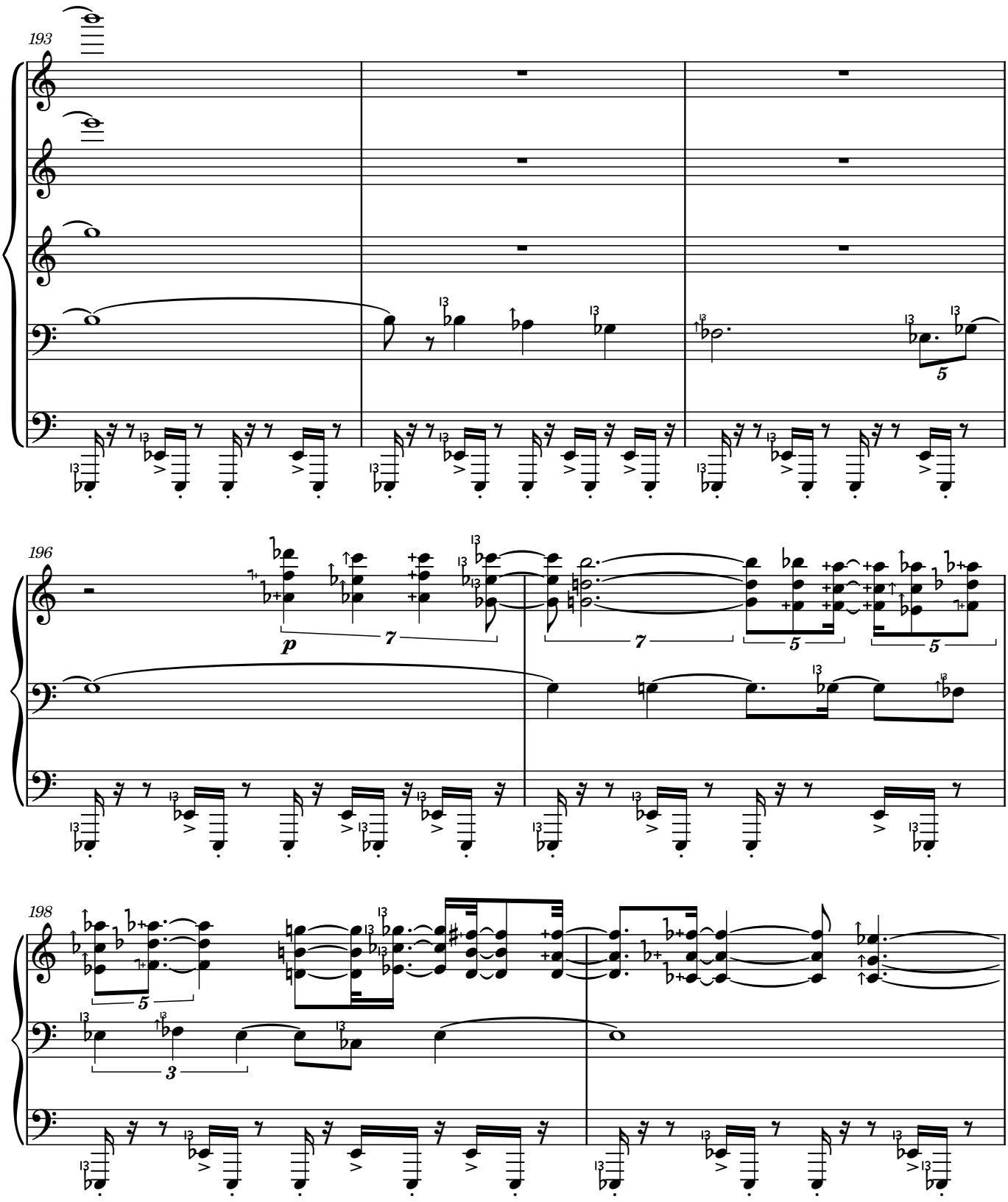

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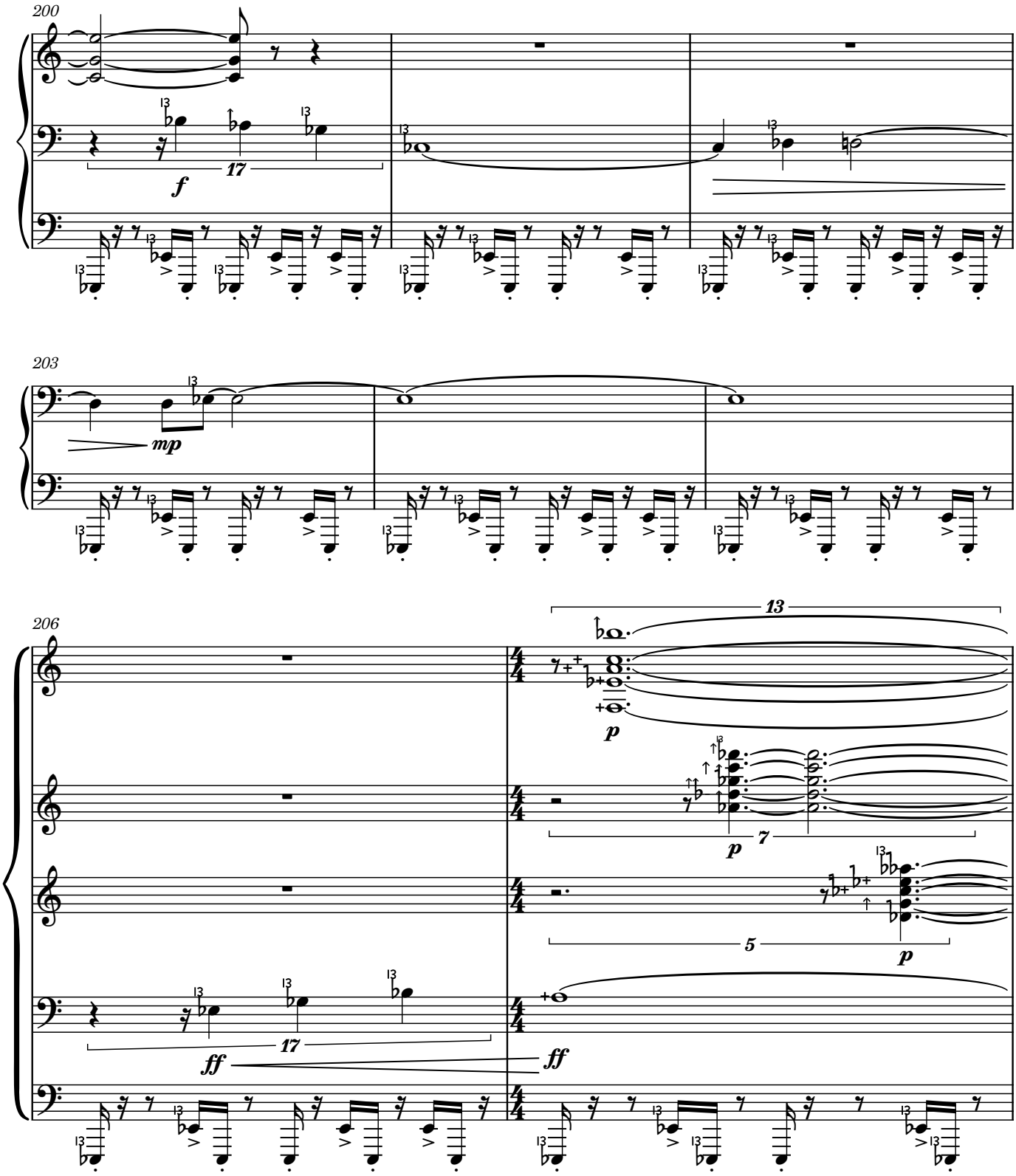

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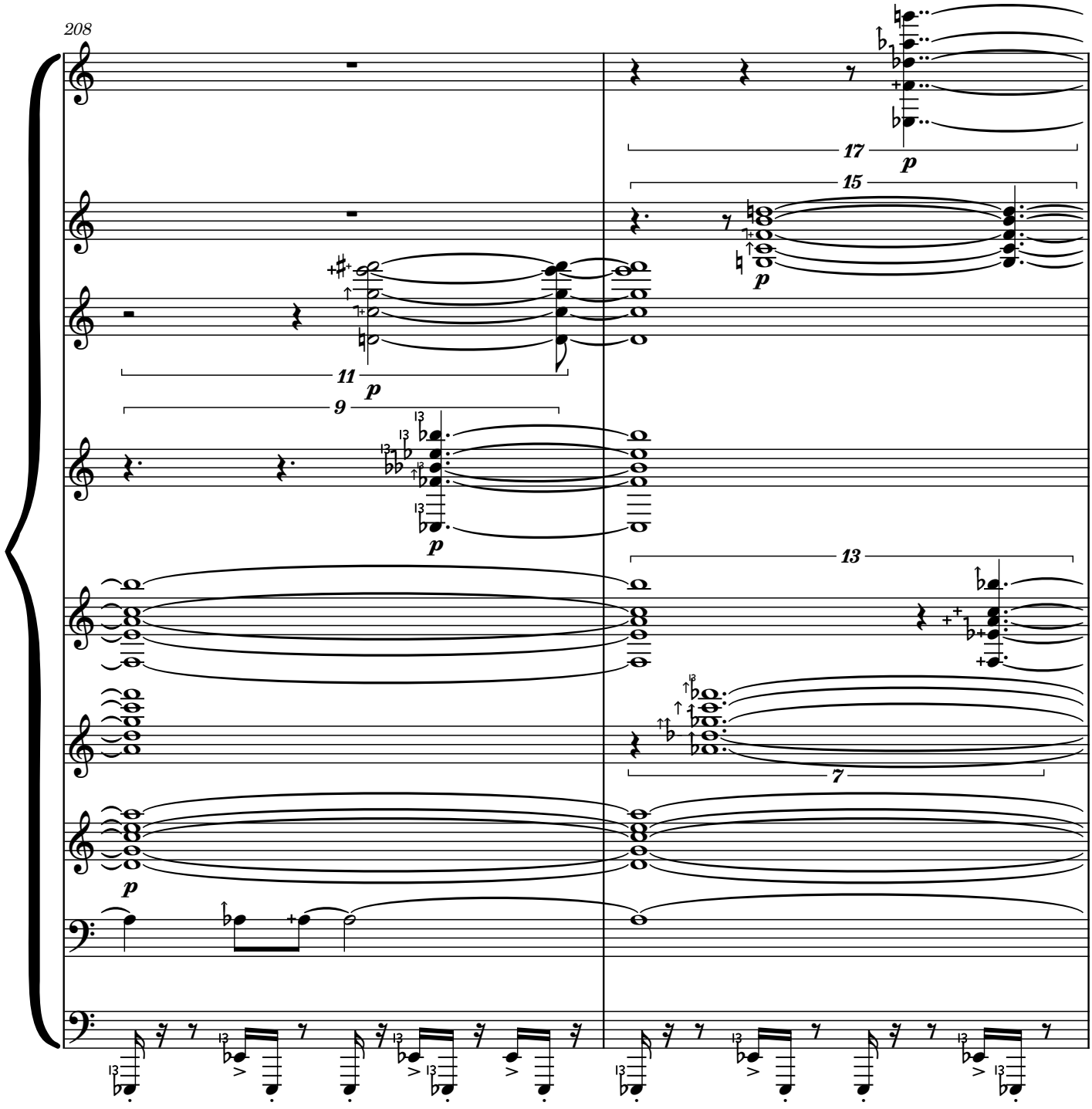

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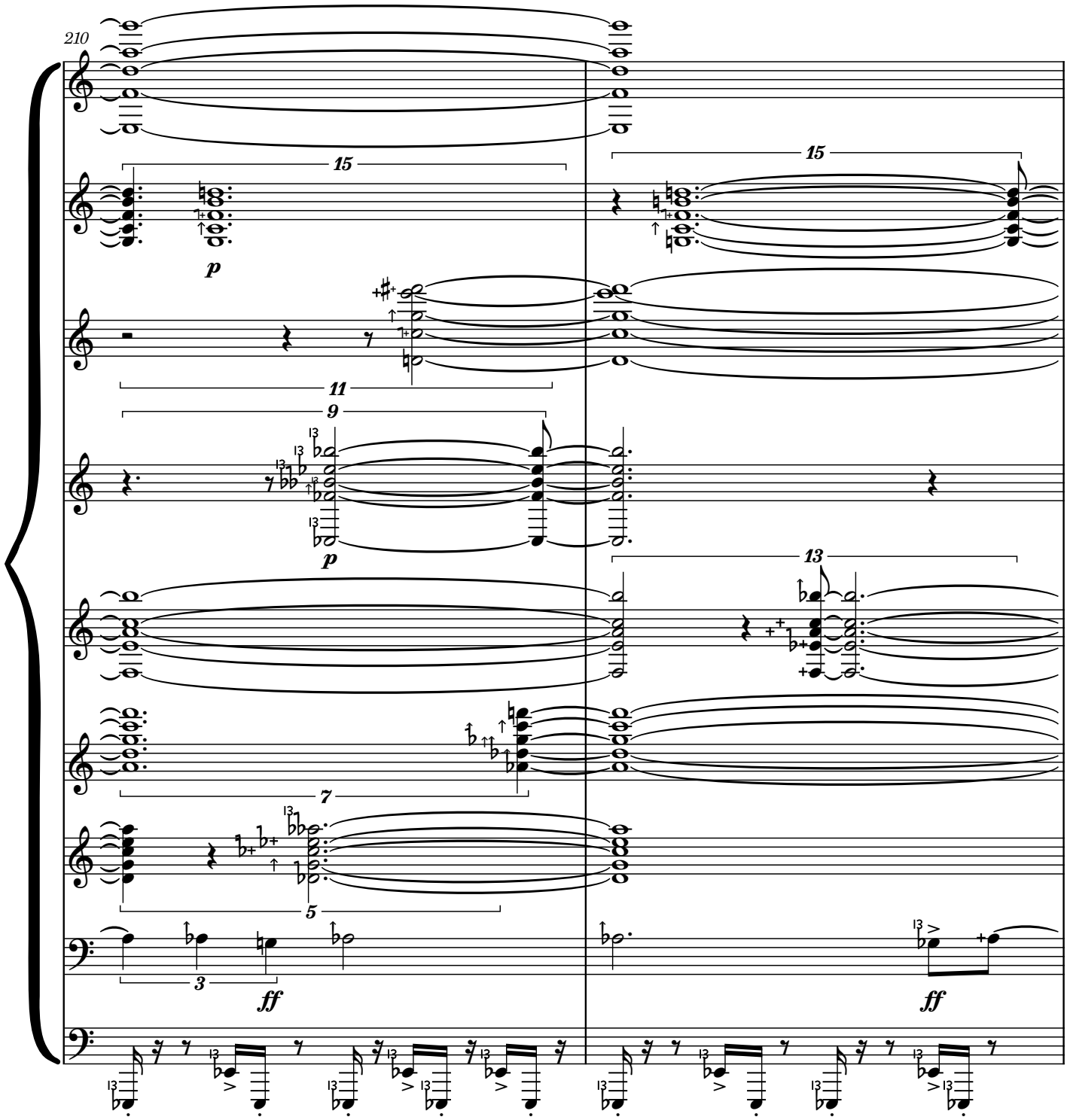

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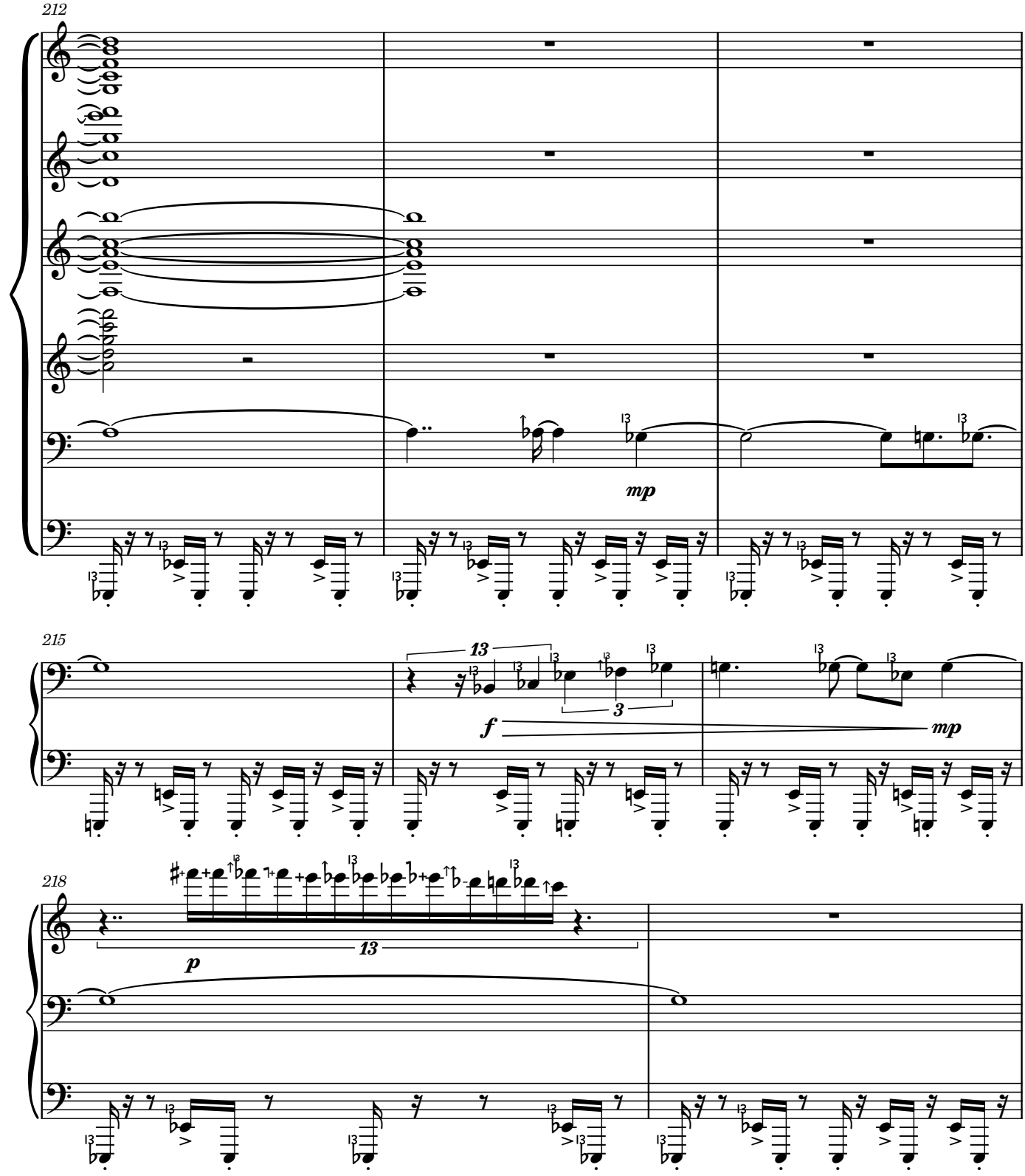

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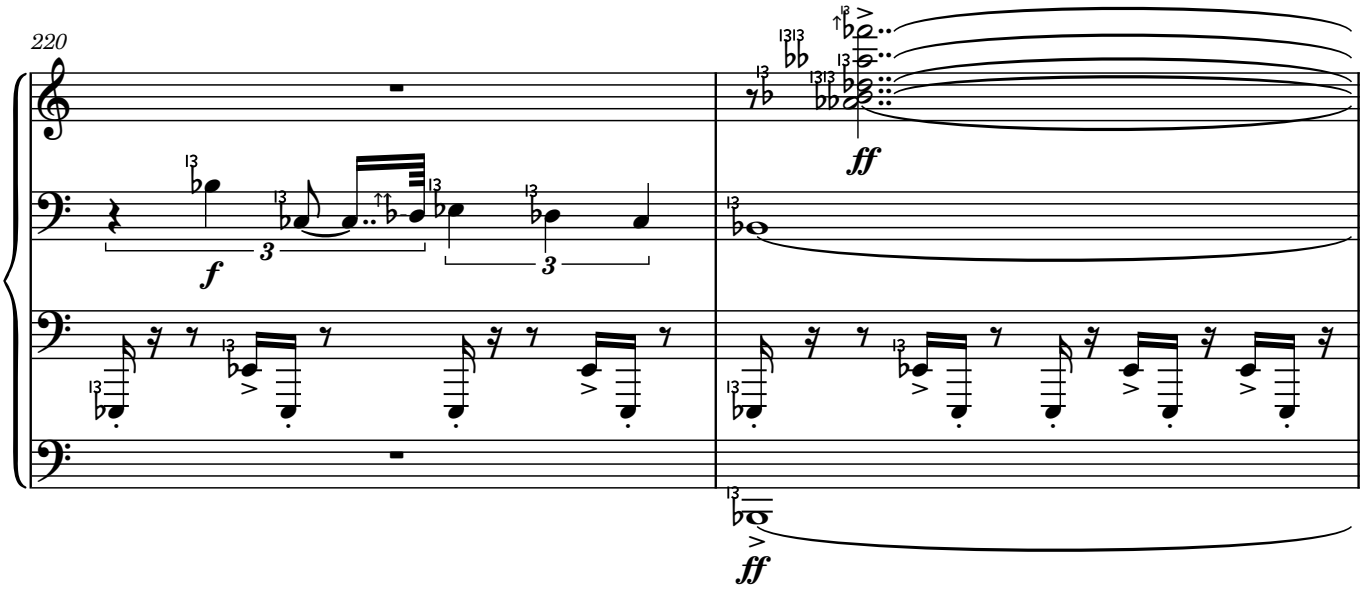

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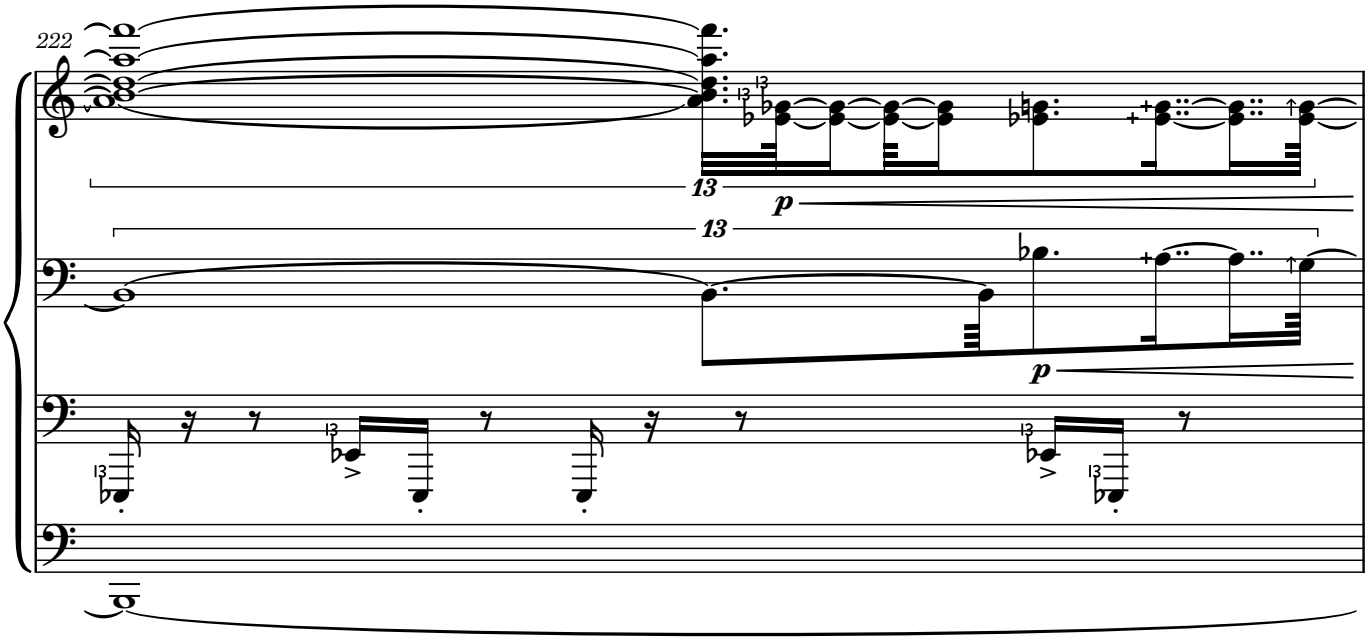

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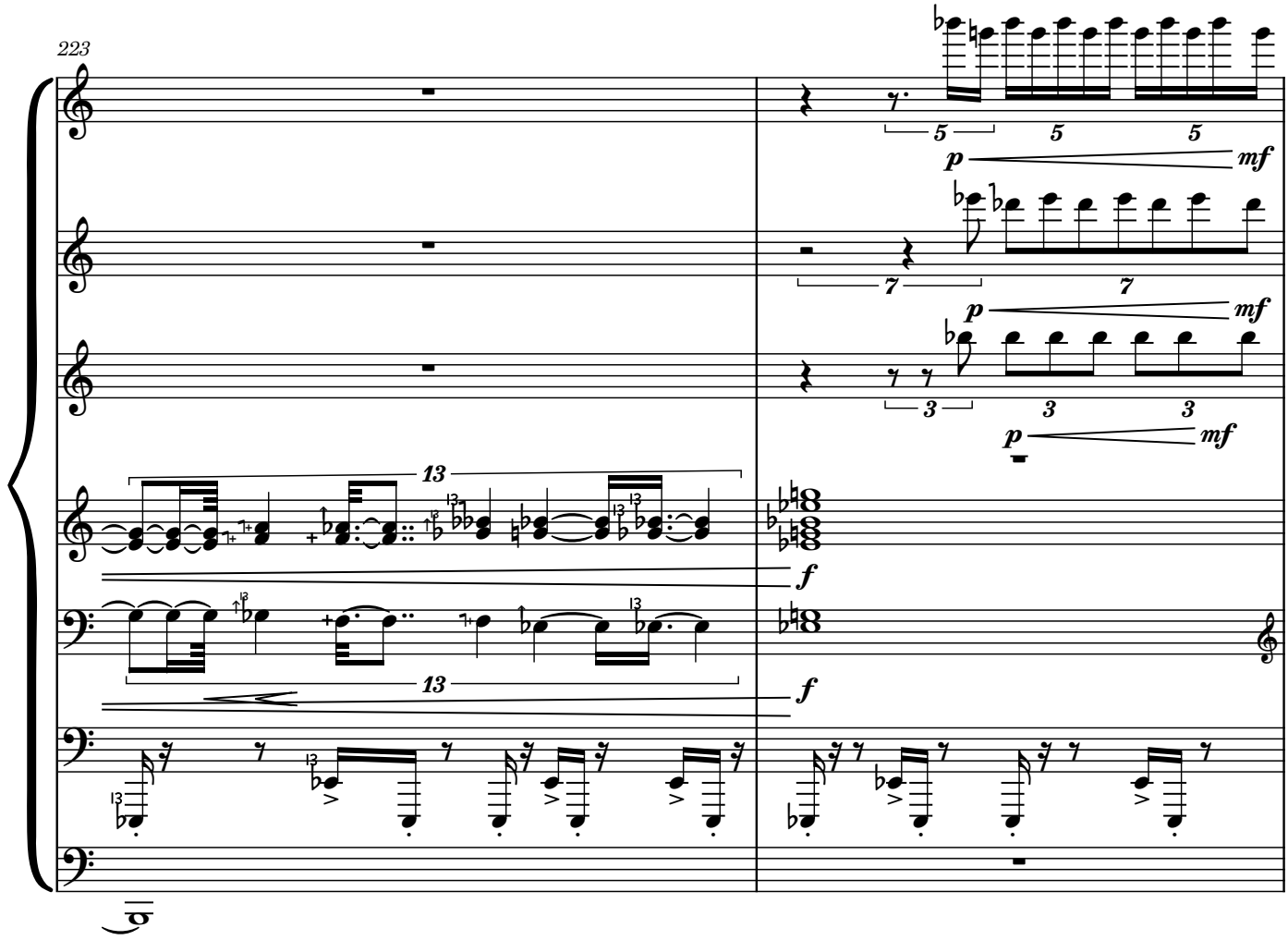

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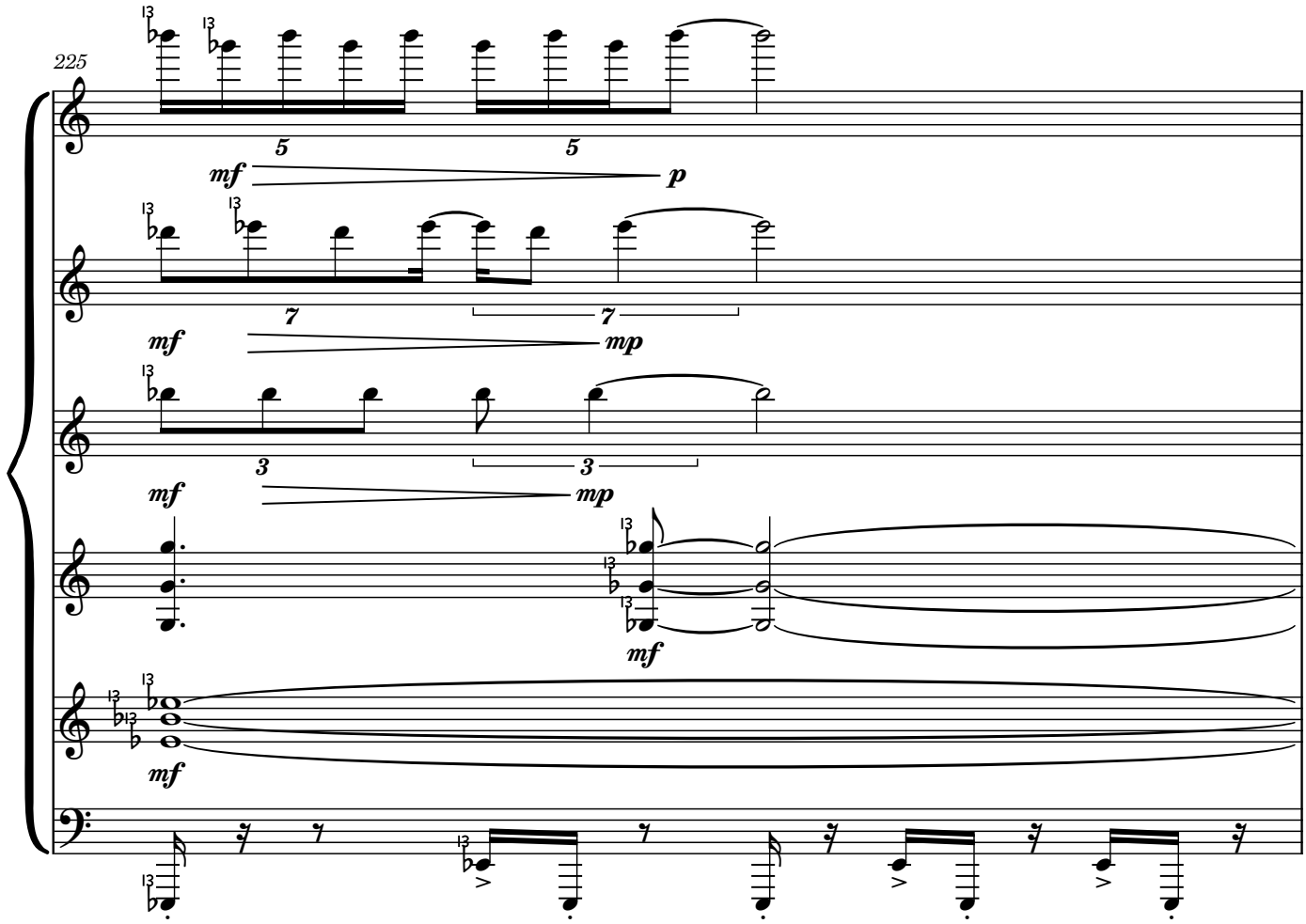

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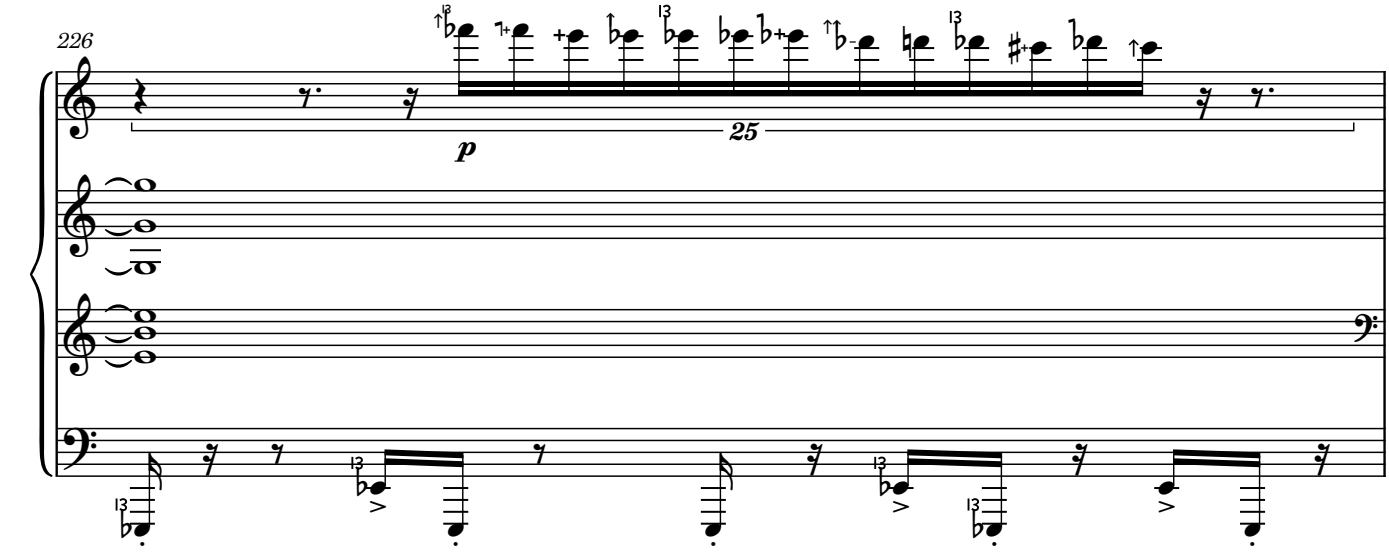

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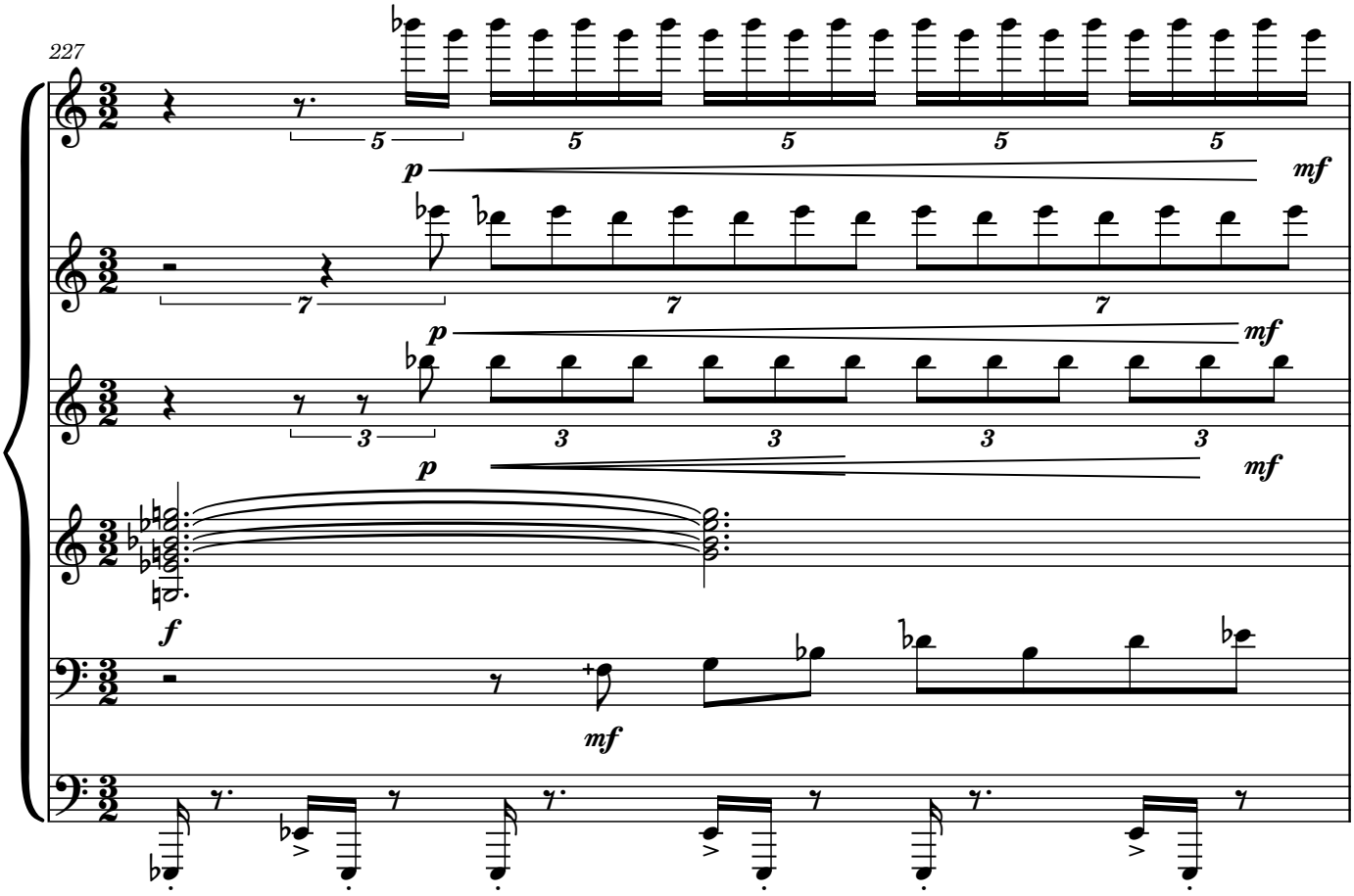

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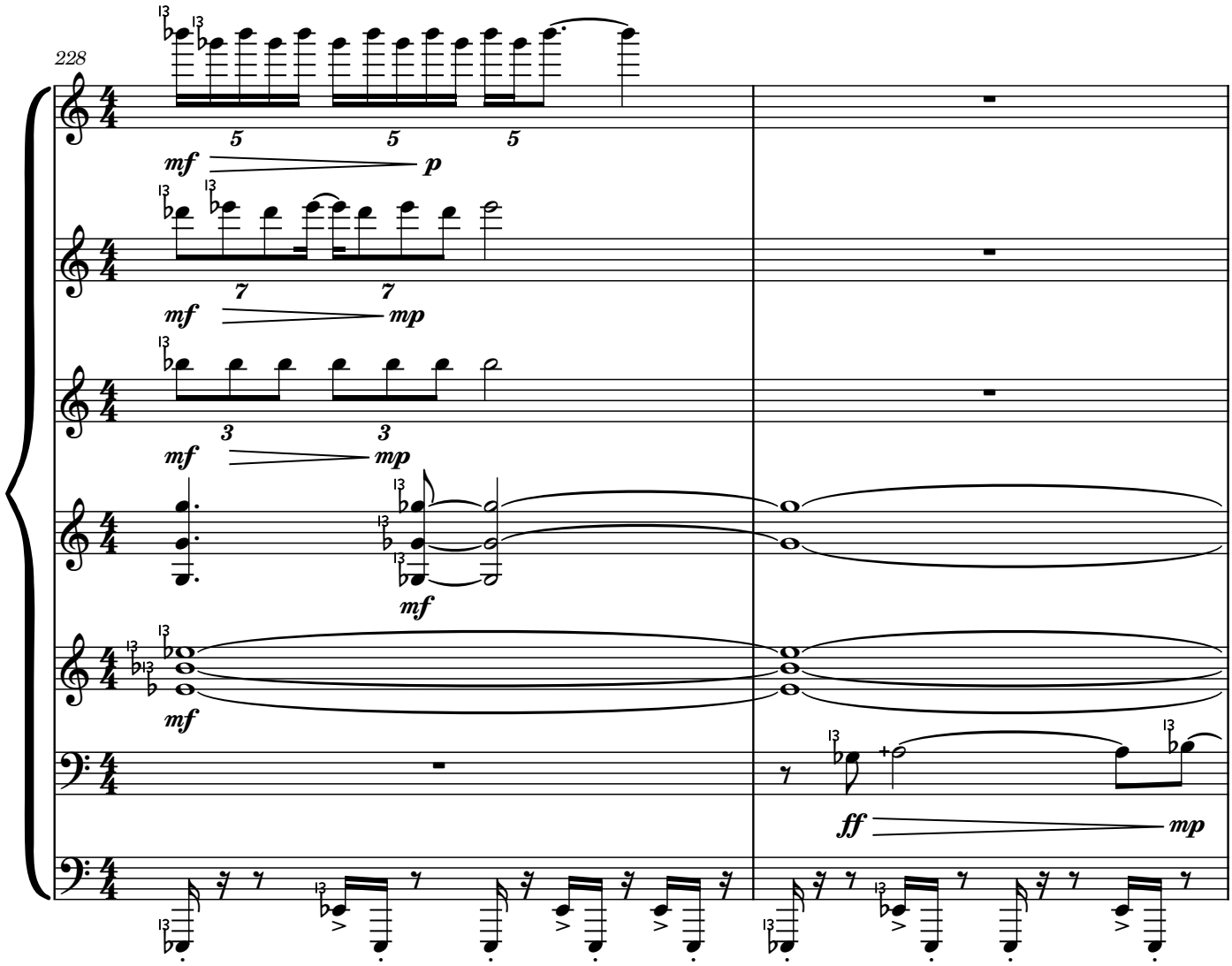

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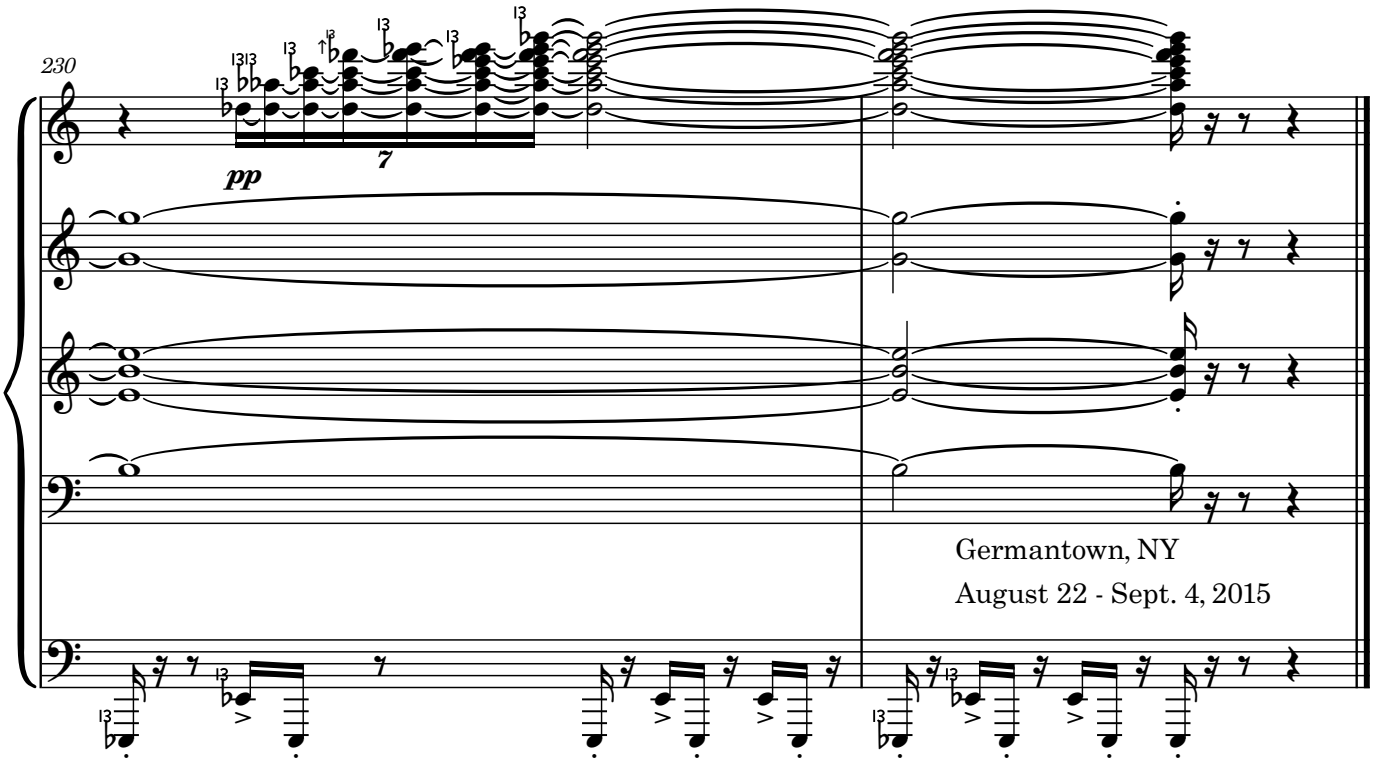

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226
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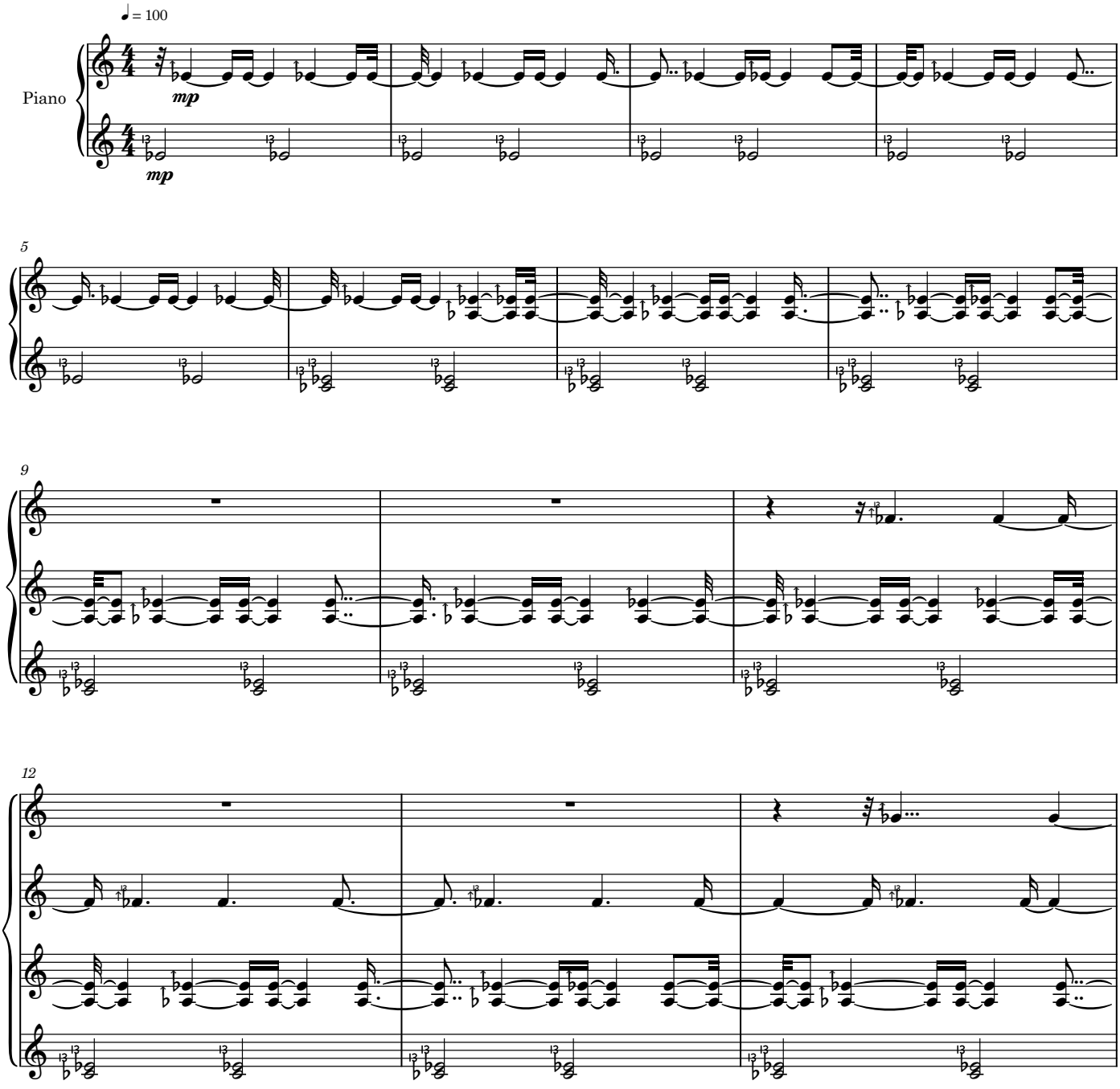

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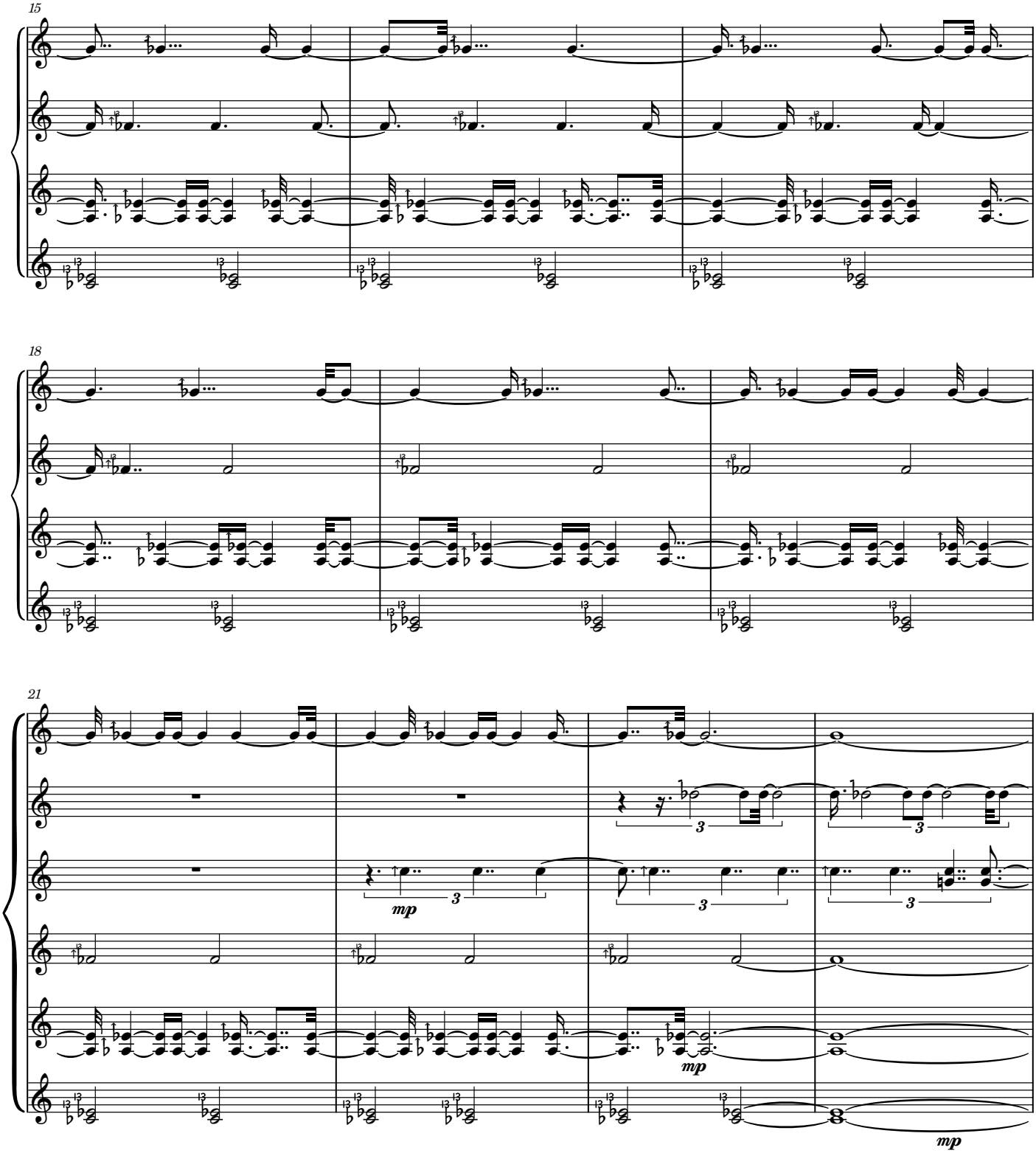

230
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Germantown, NY
August 22 - Sept. 4, 2015
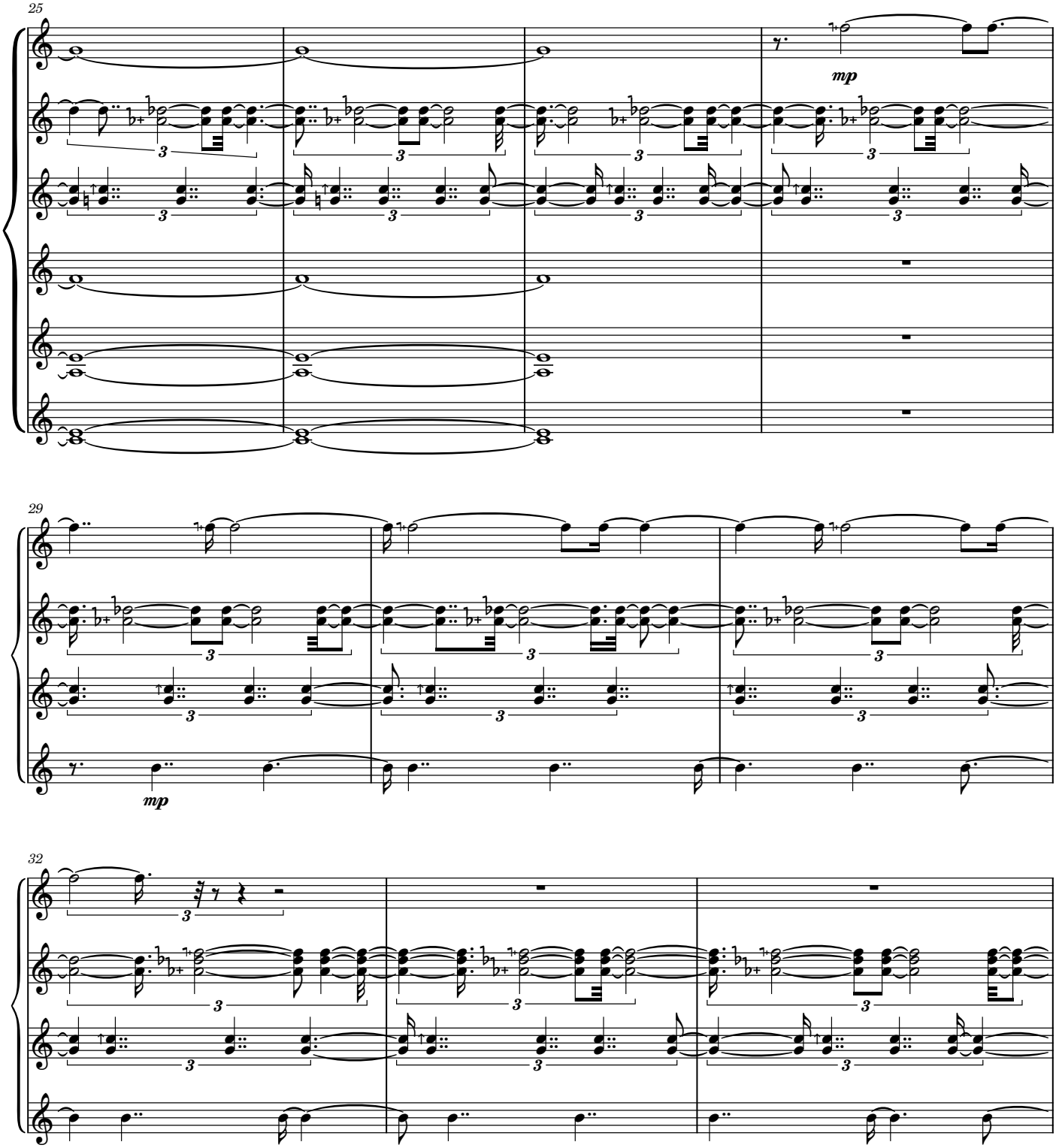
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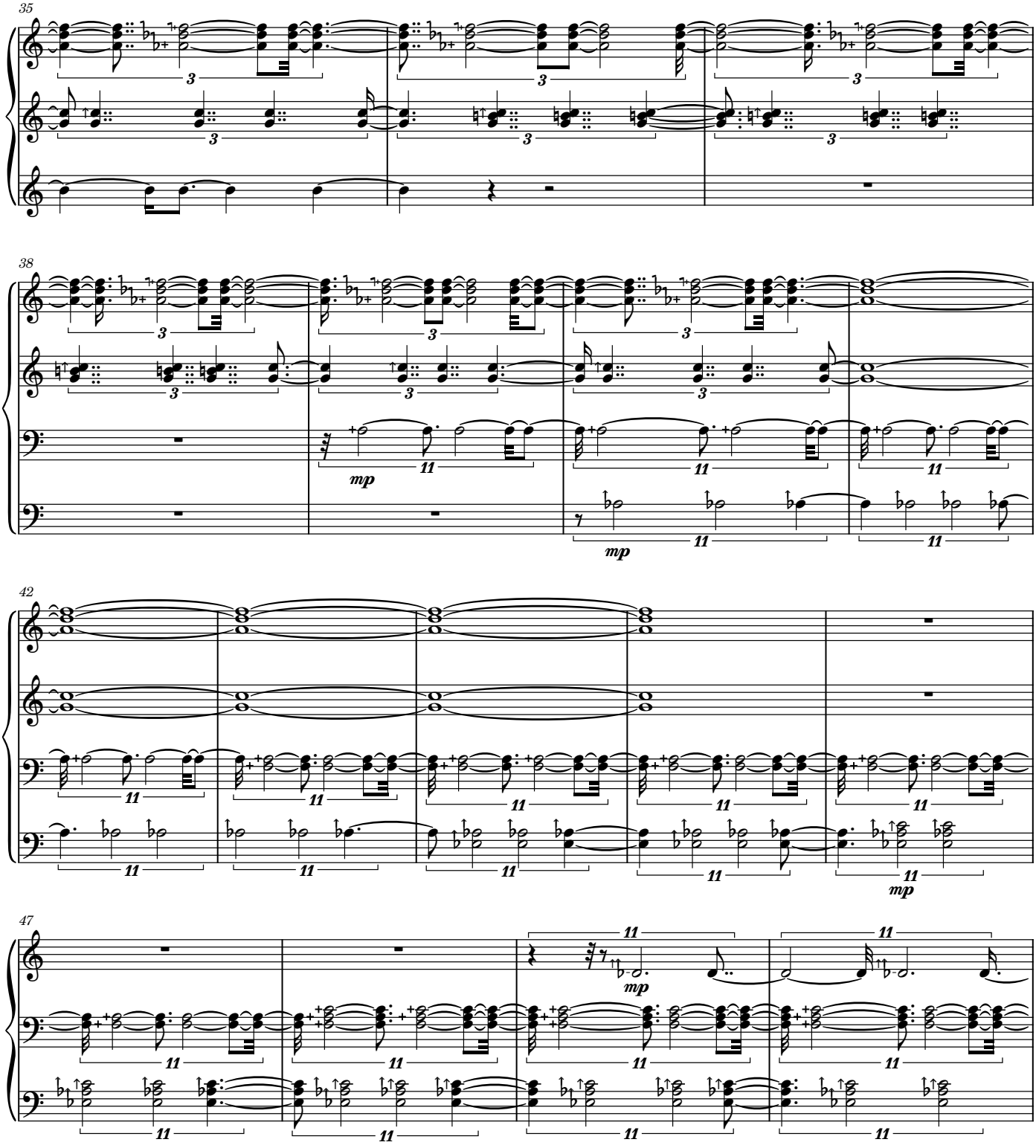
Kyle Gann
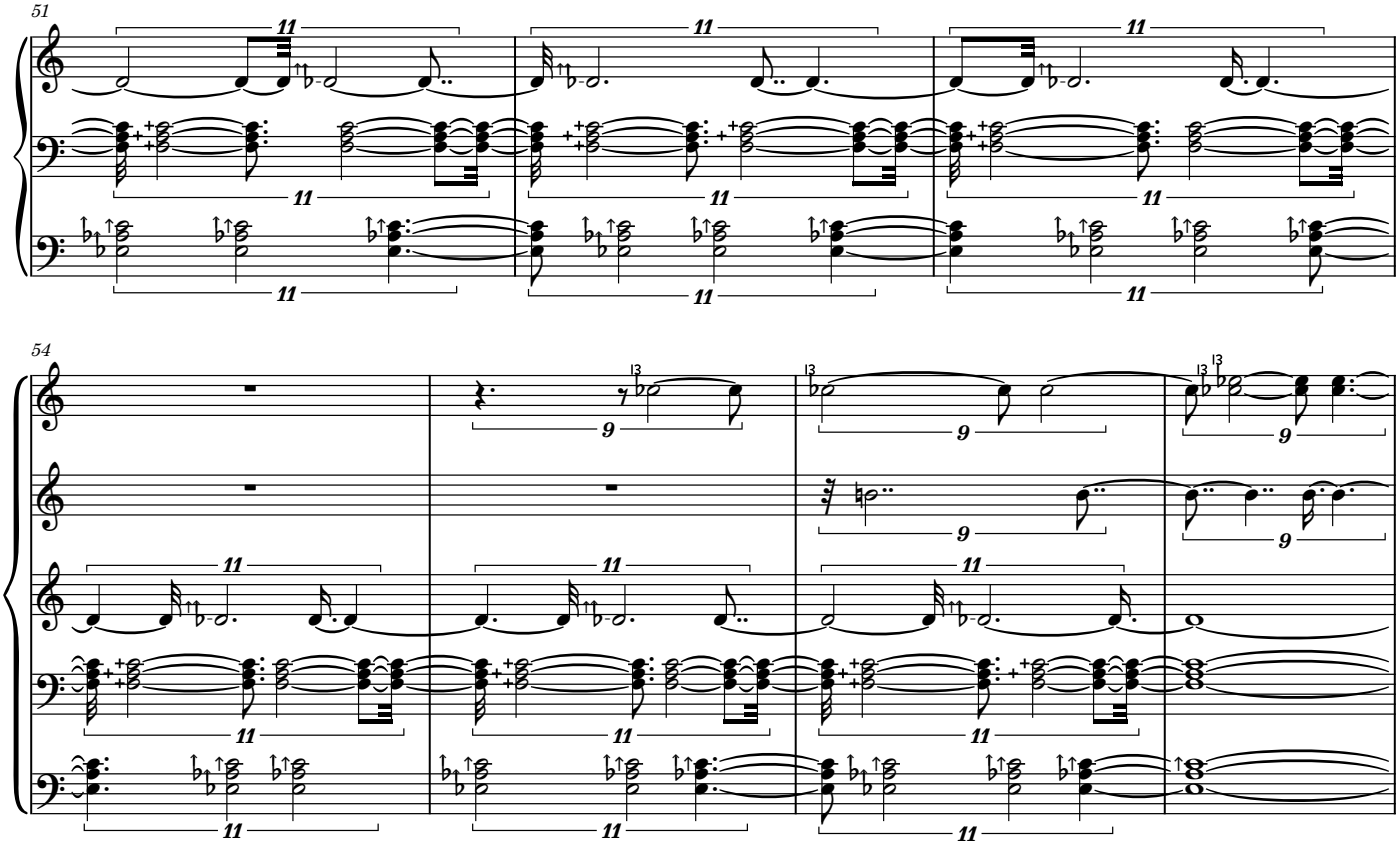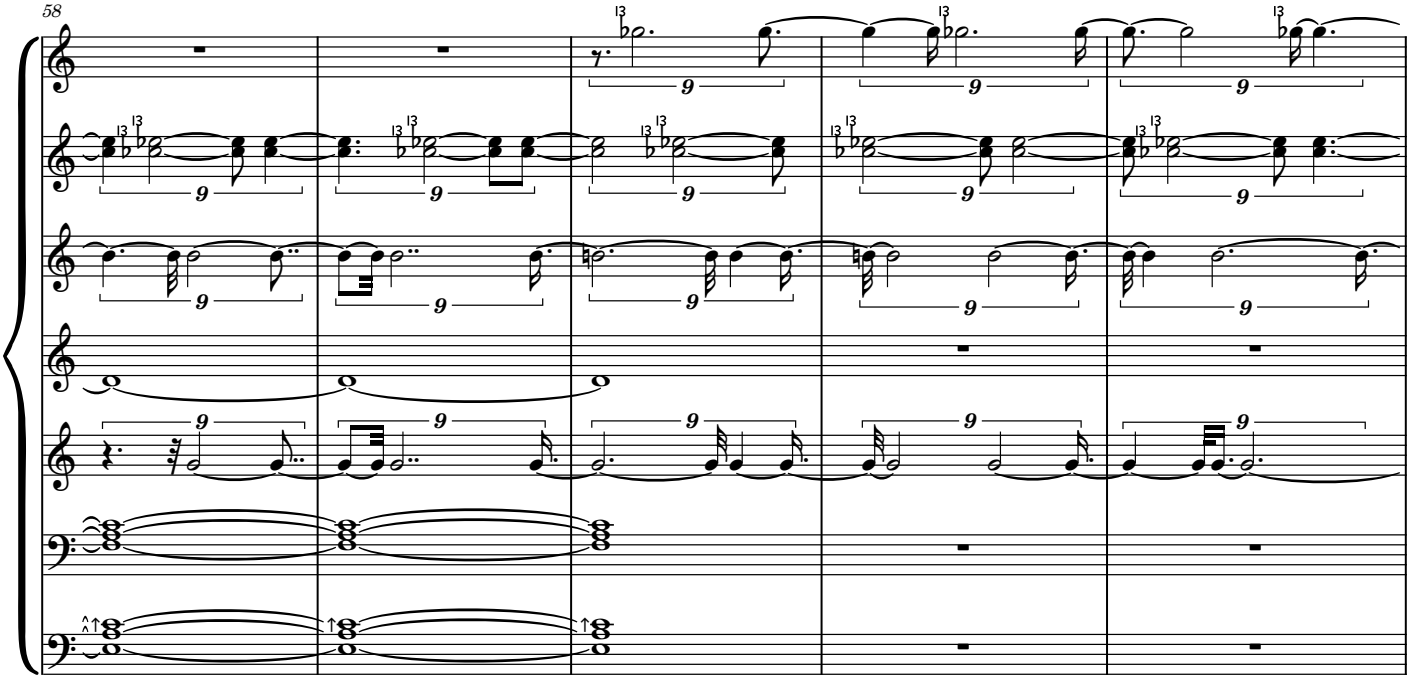


© 2015 Smith Grabholz Music
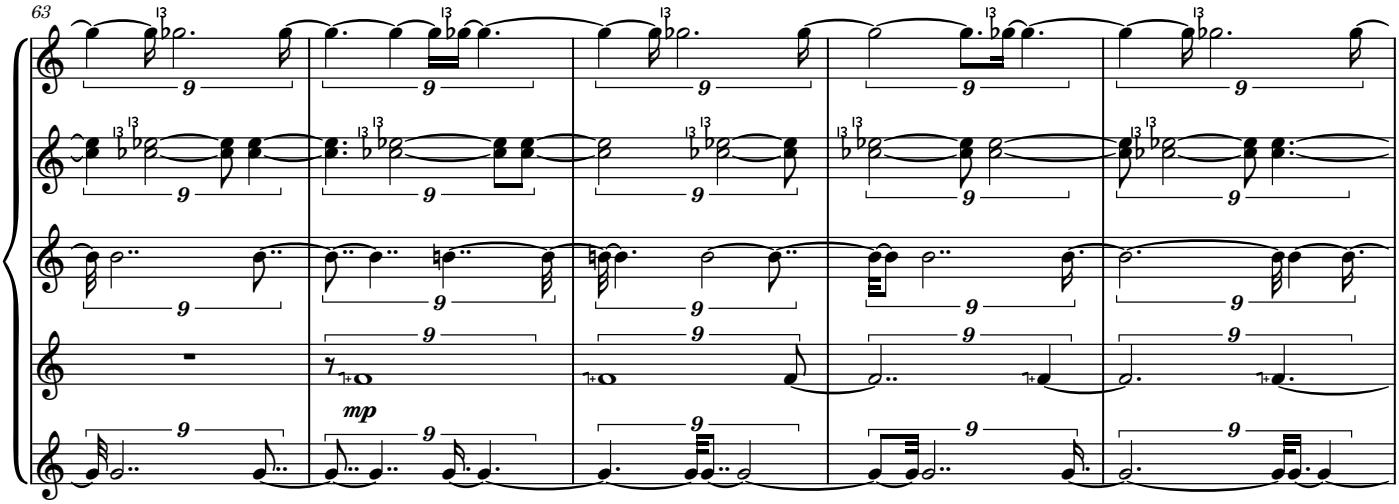

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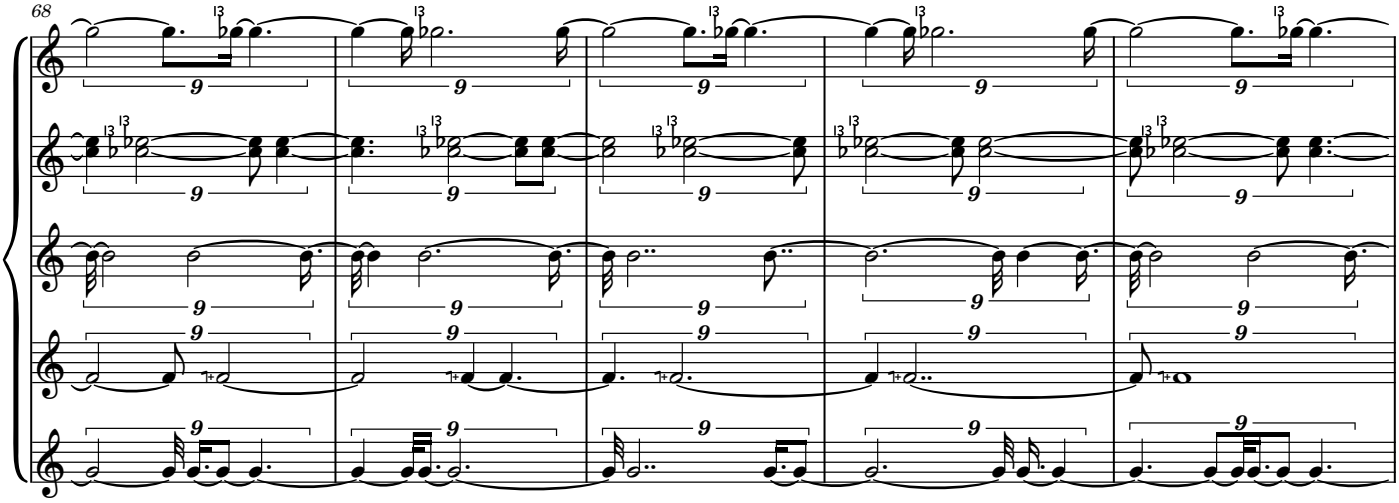

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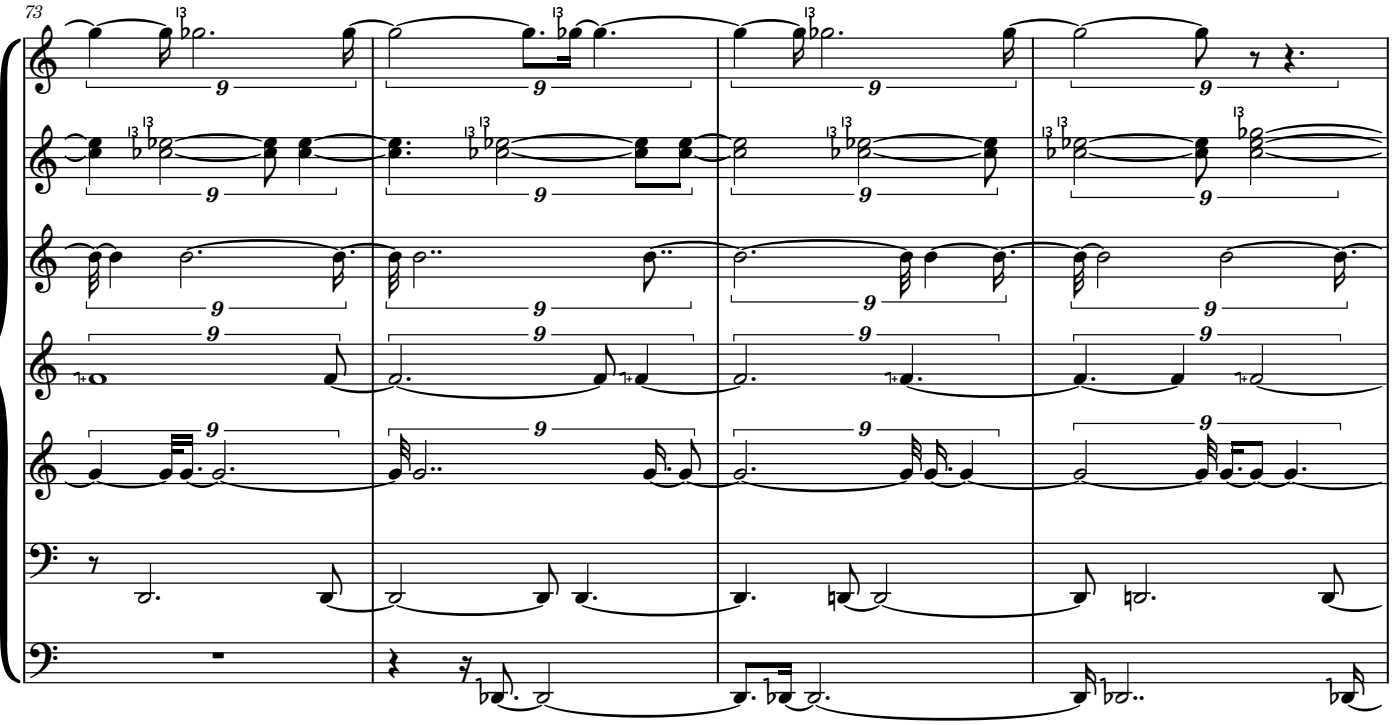

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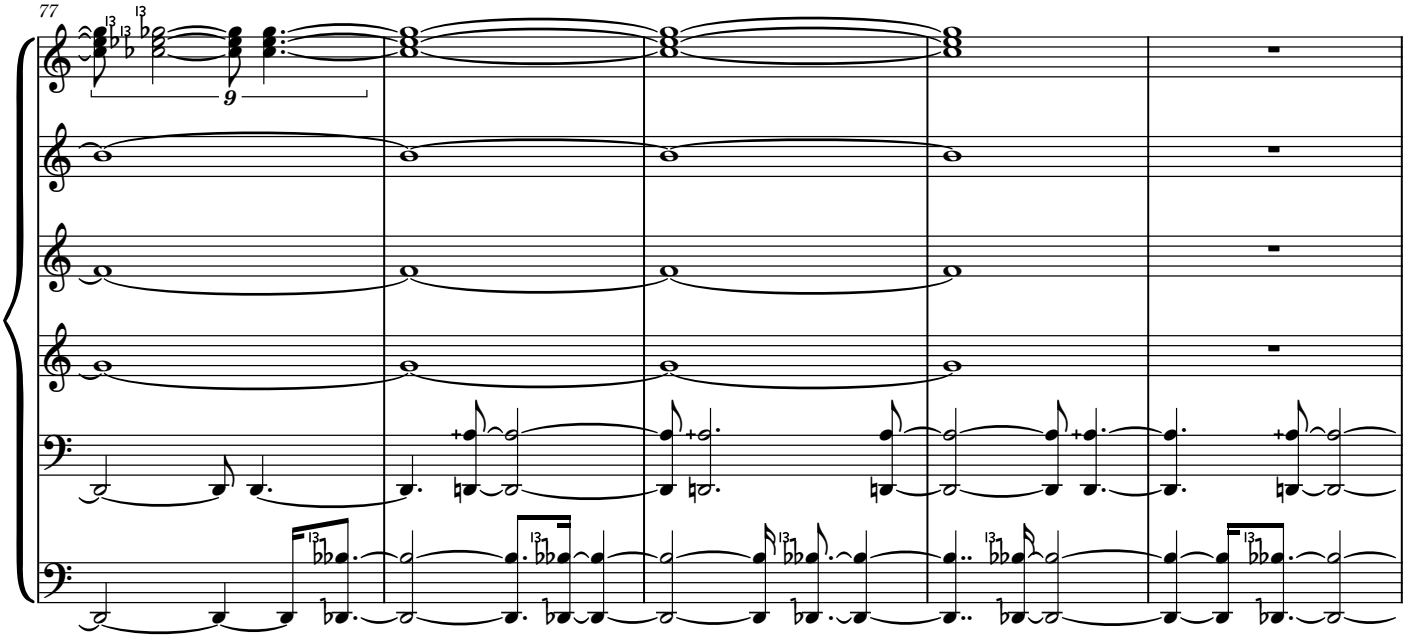

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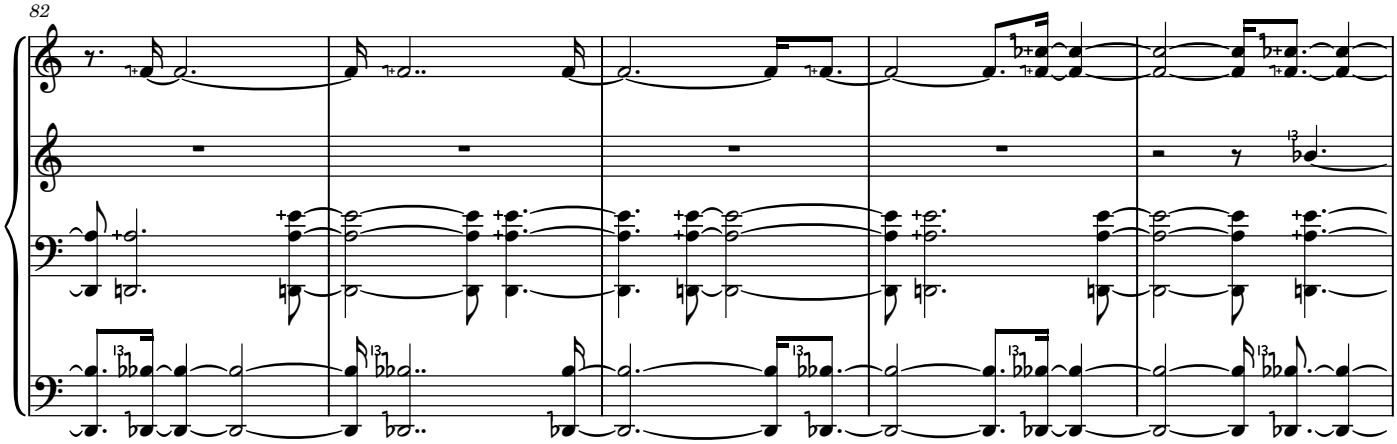

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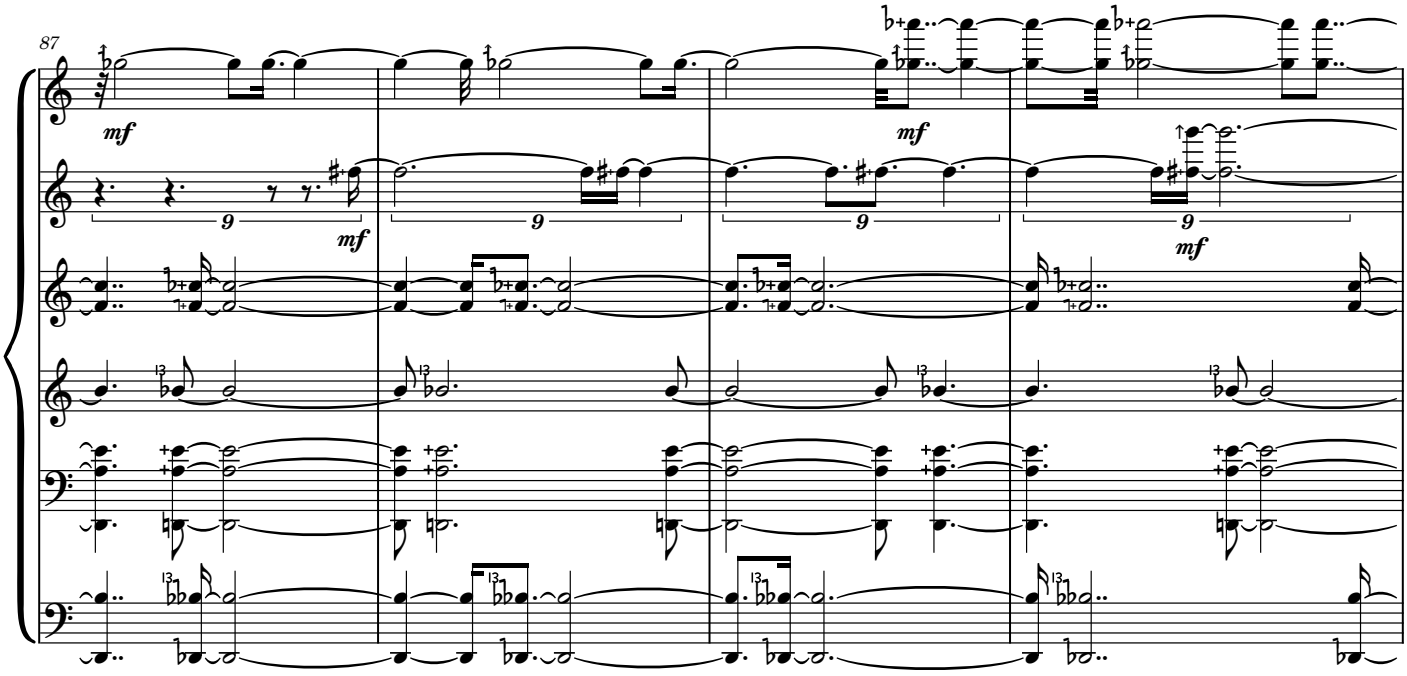

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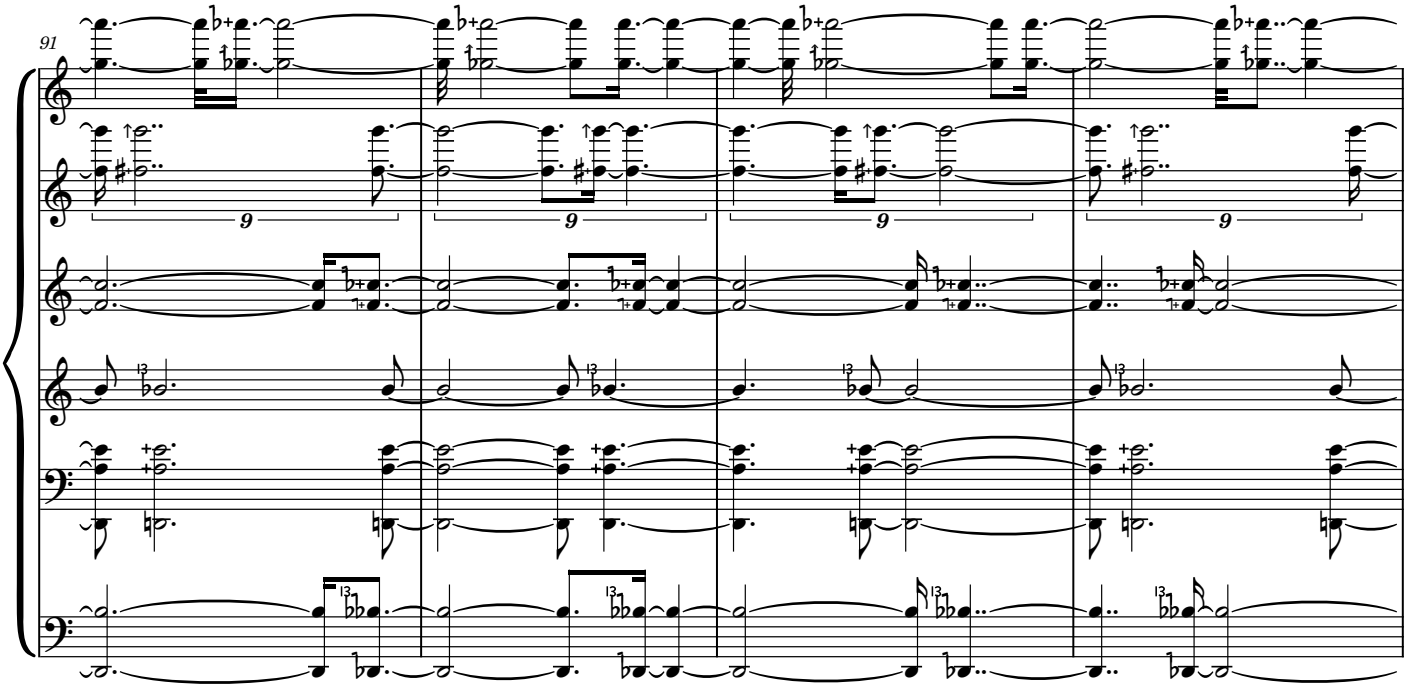

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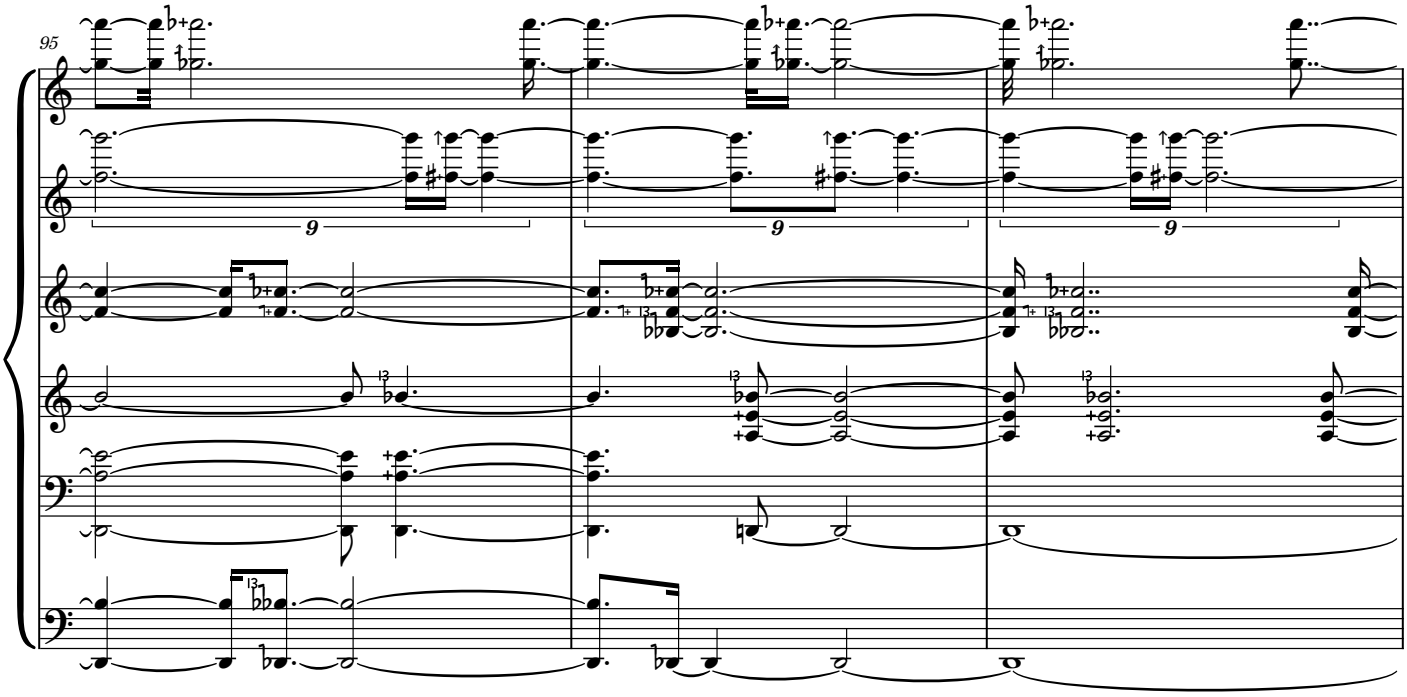

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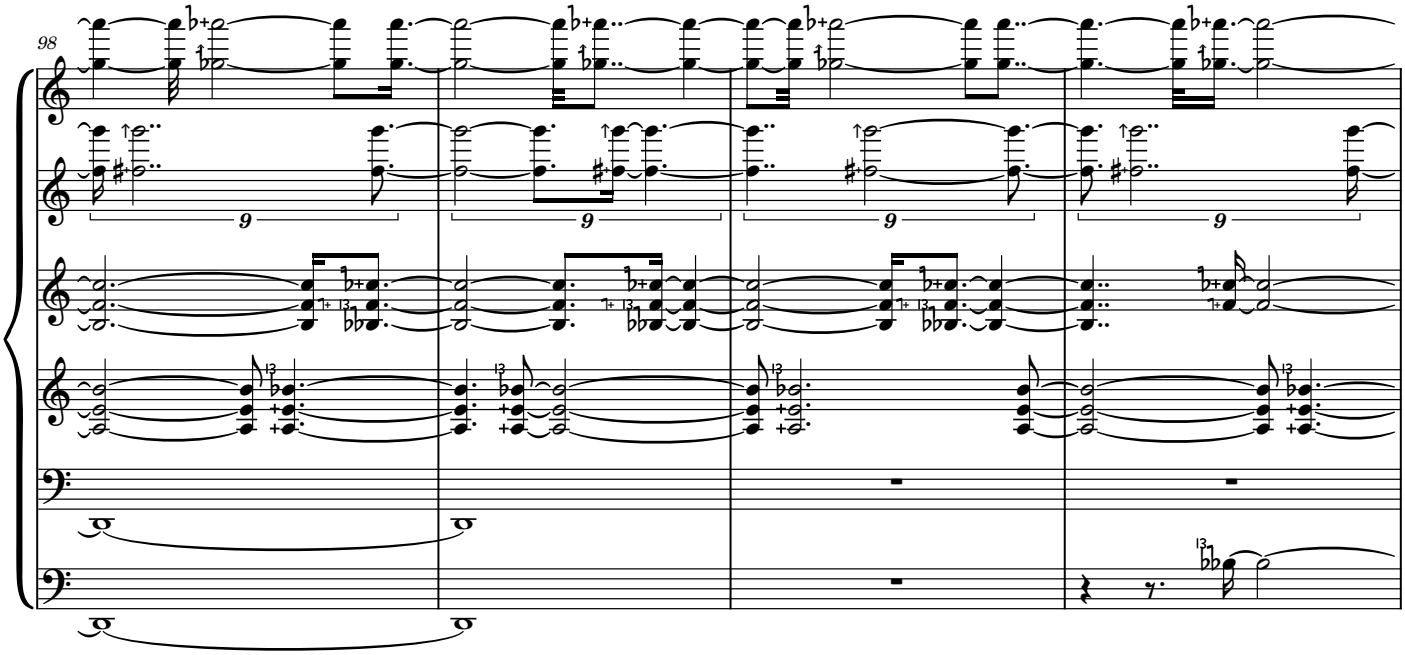

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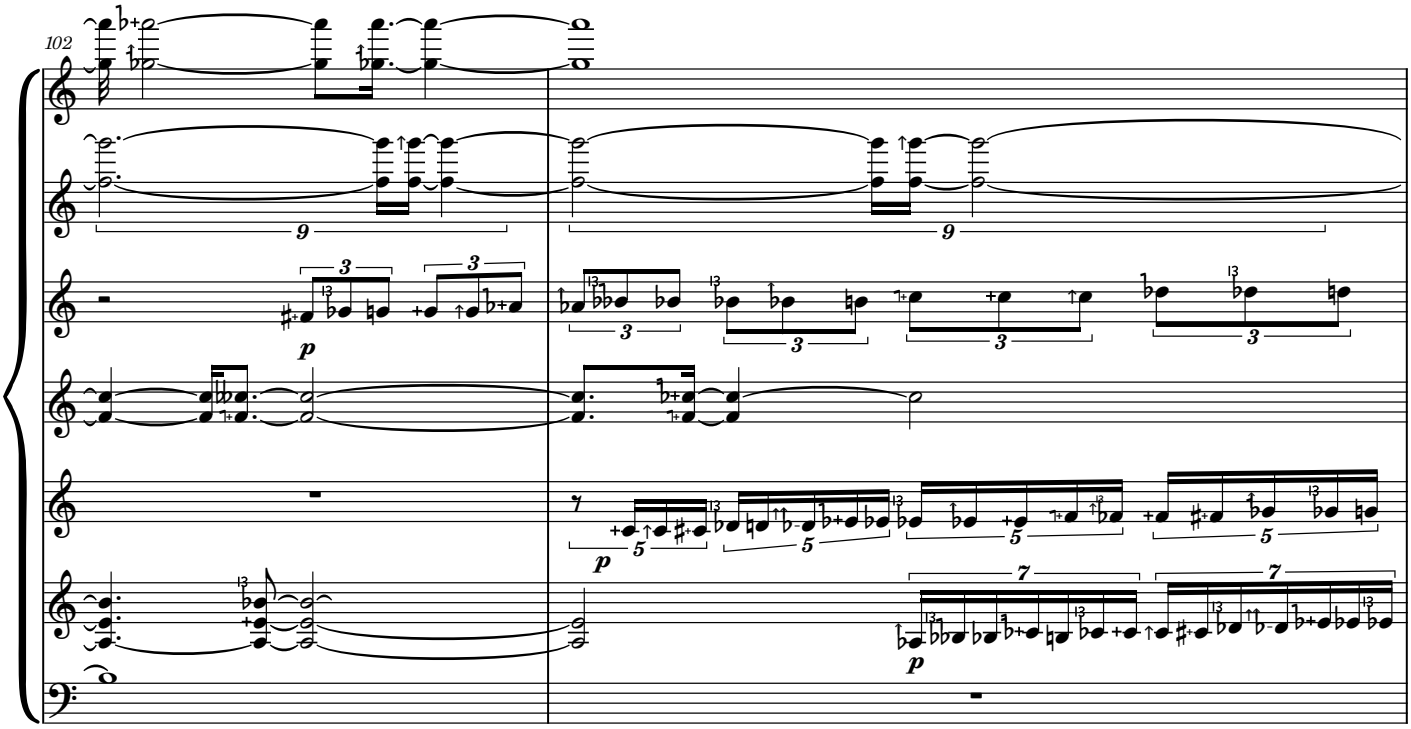

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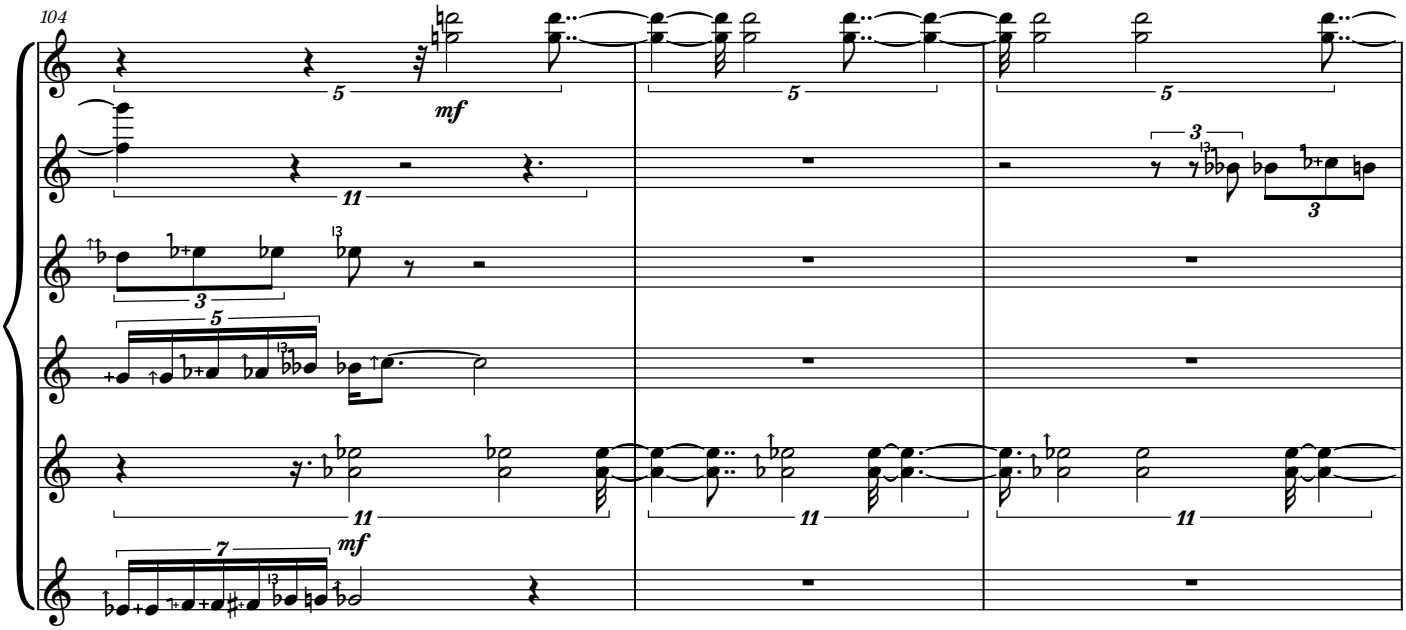

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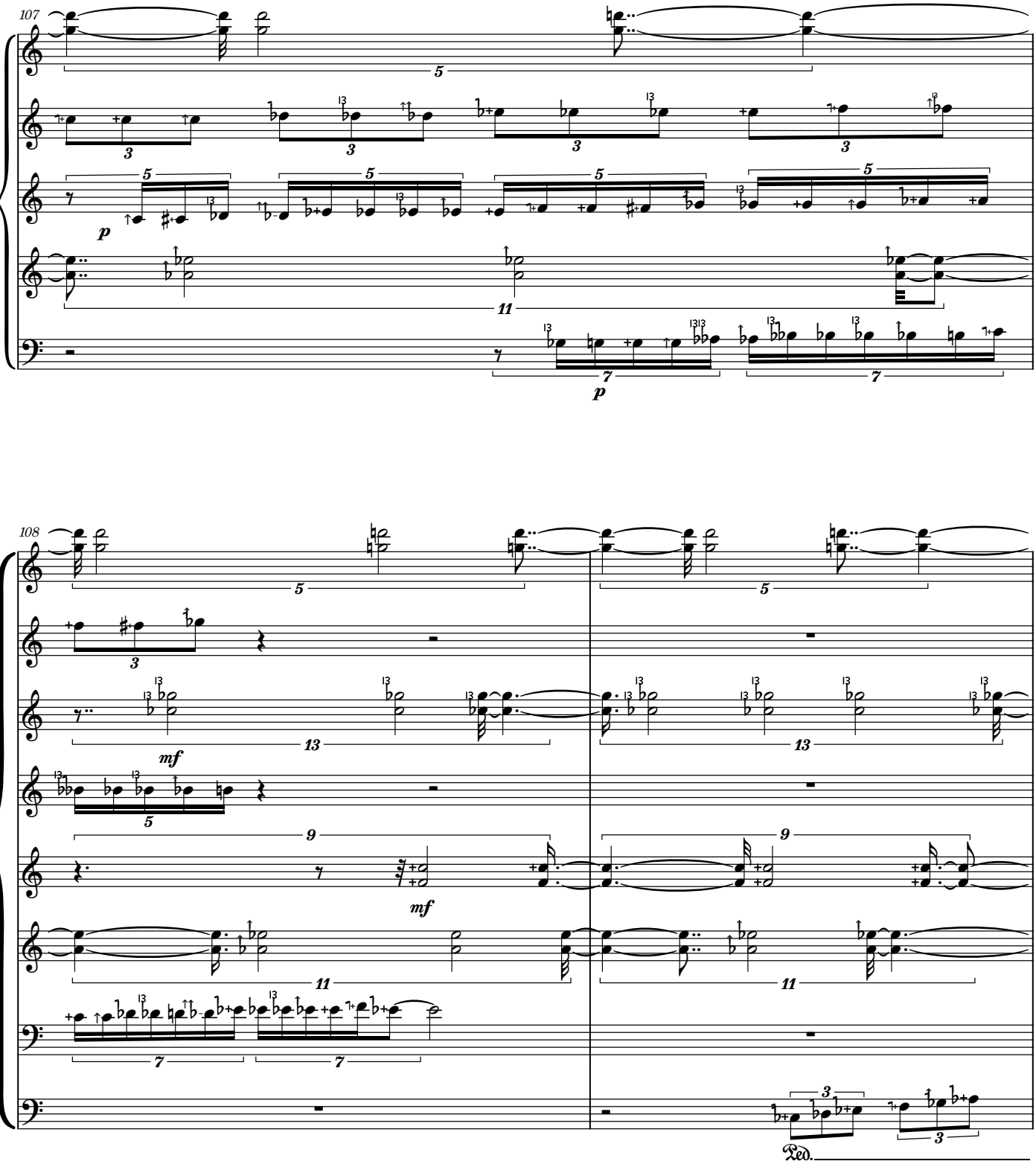

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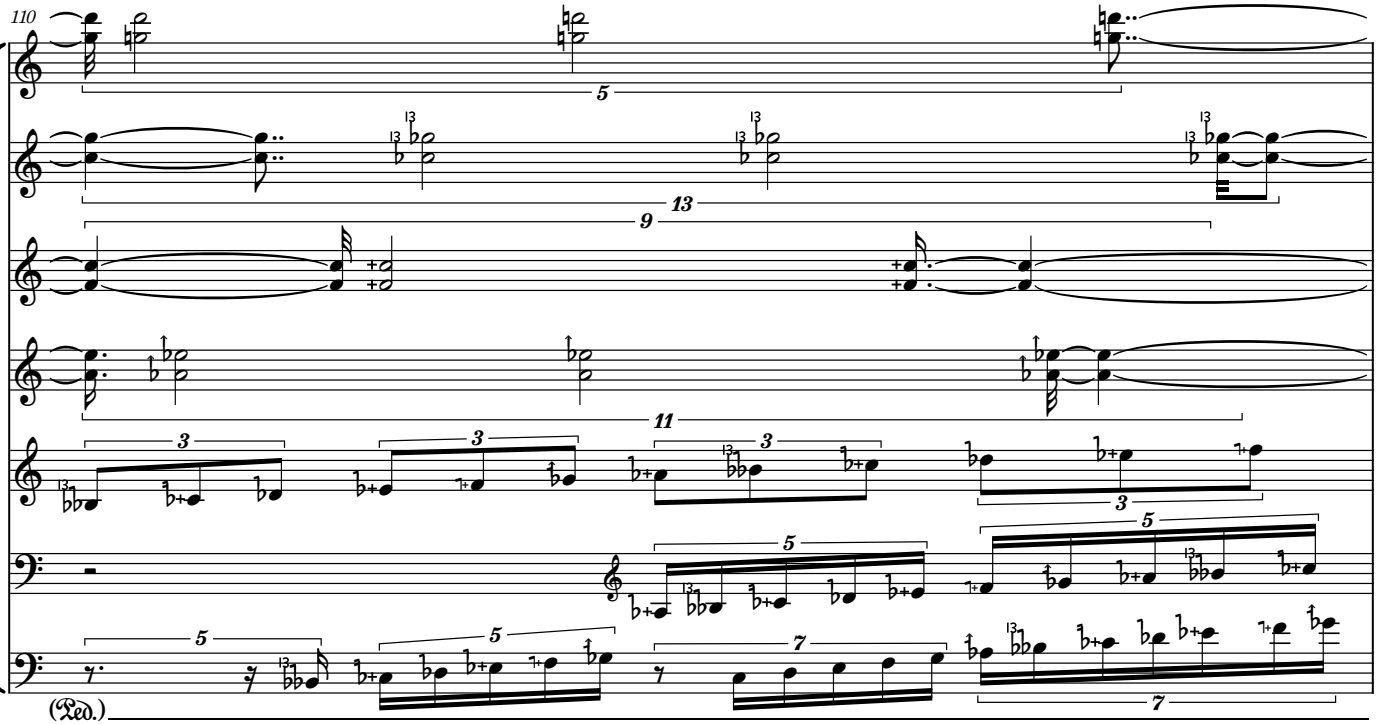

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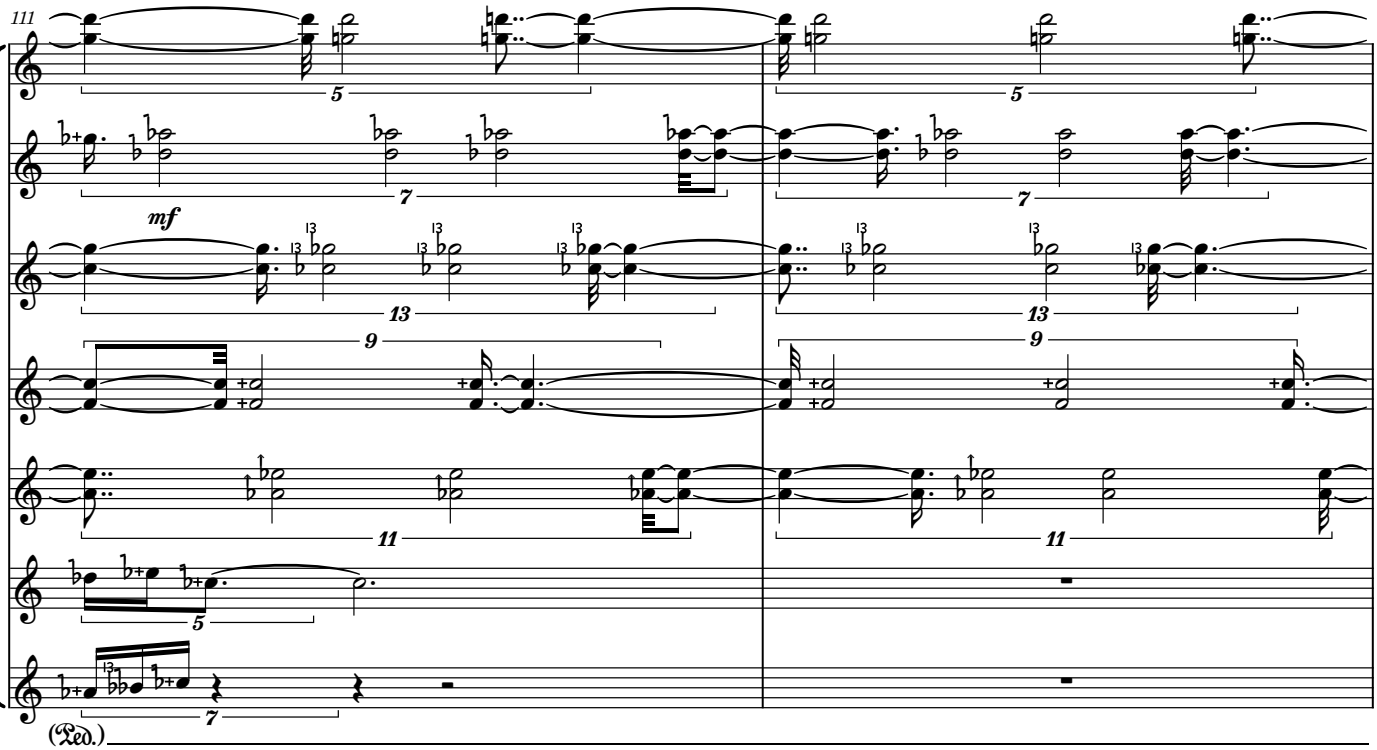

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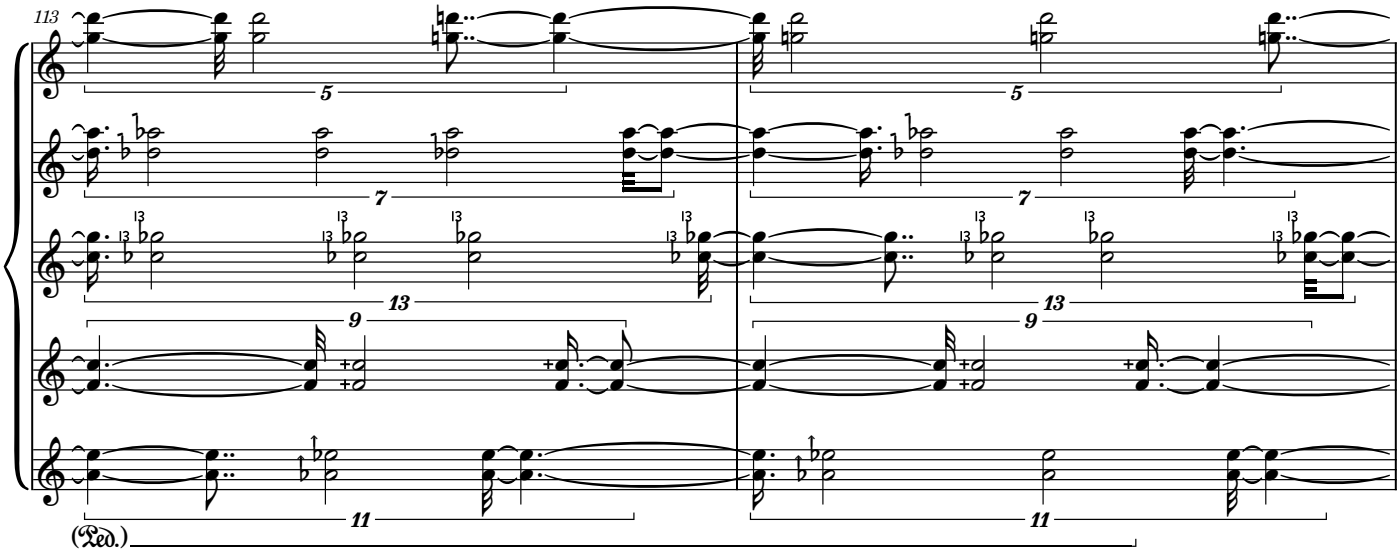

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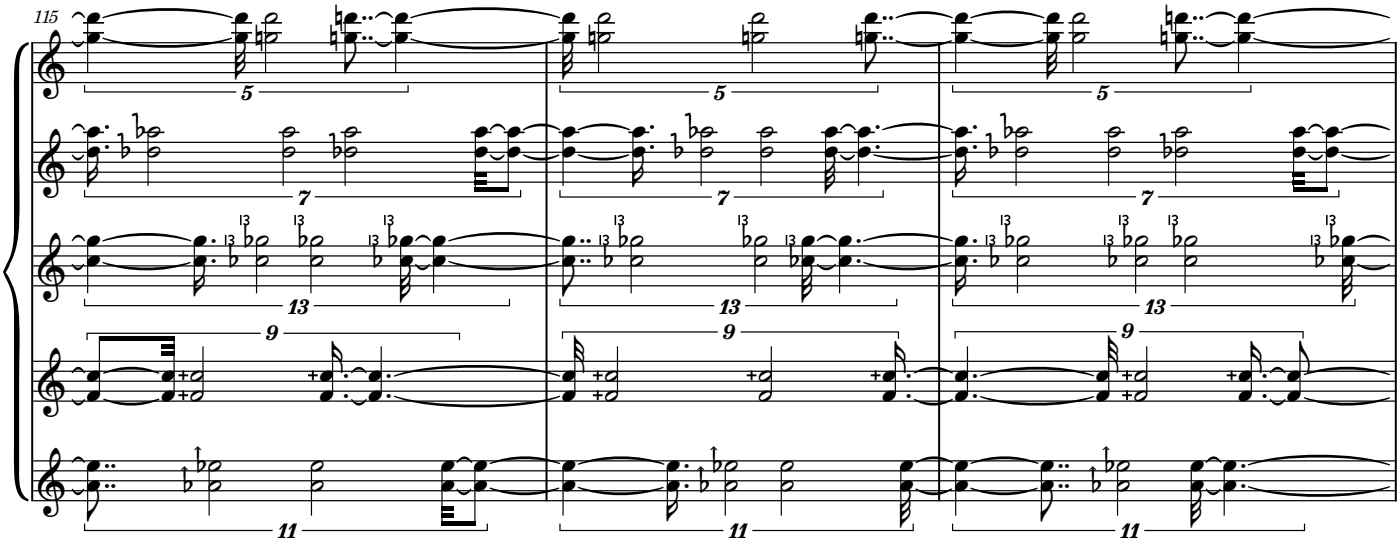

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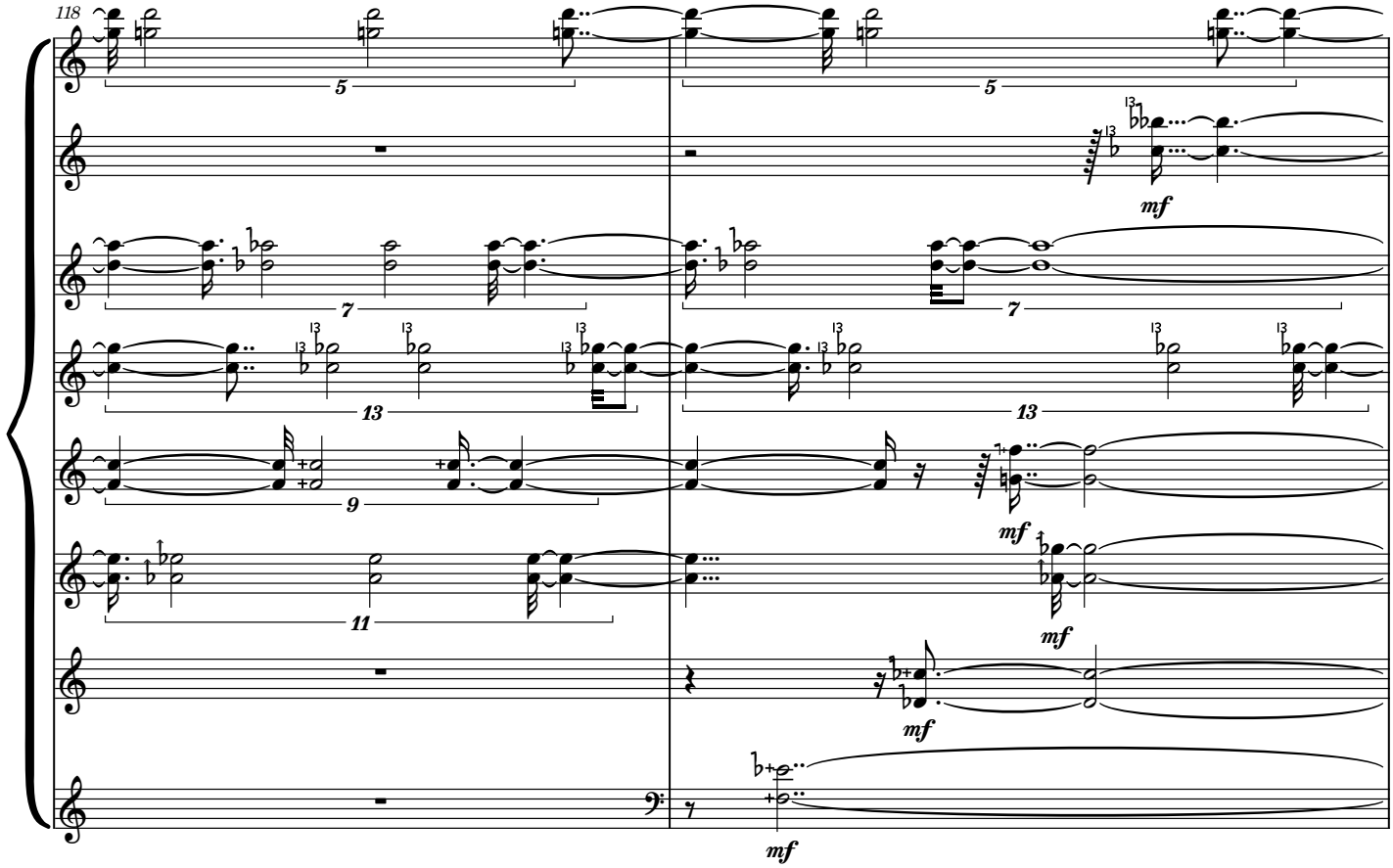

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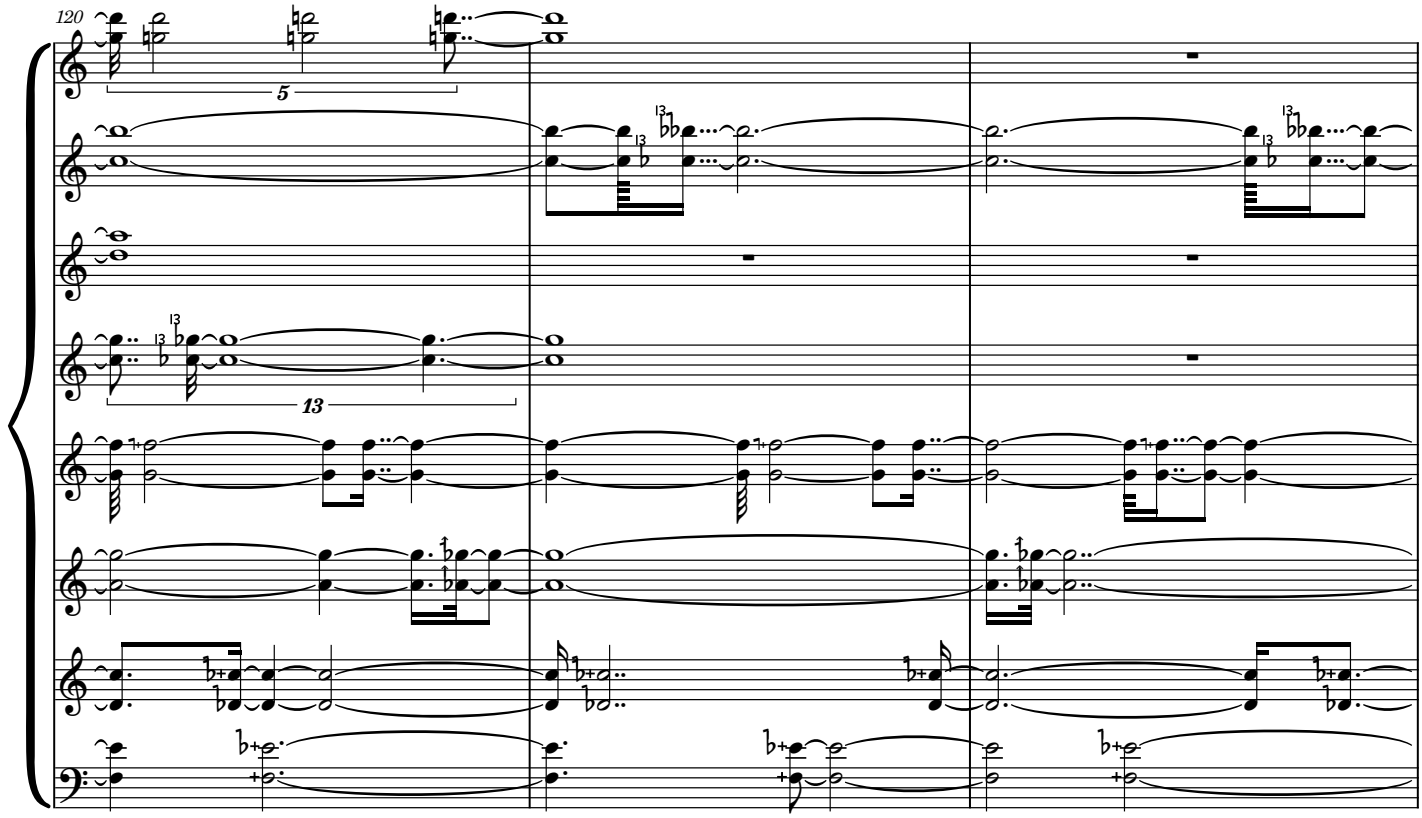

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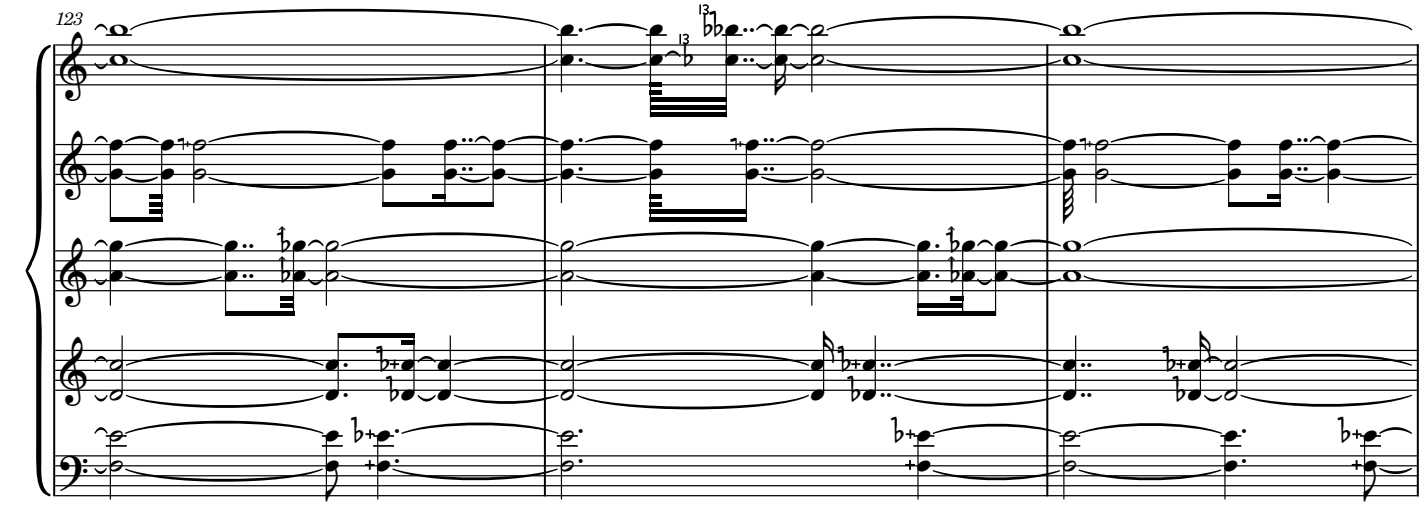

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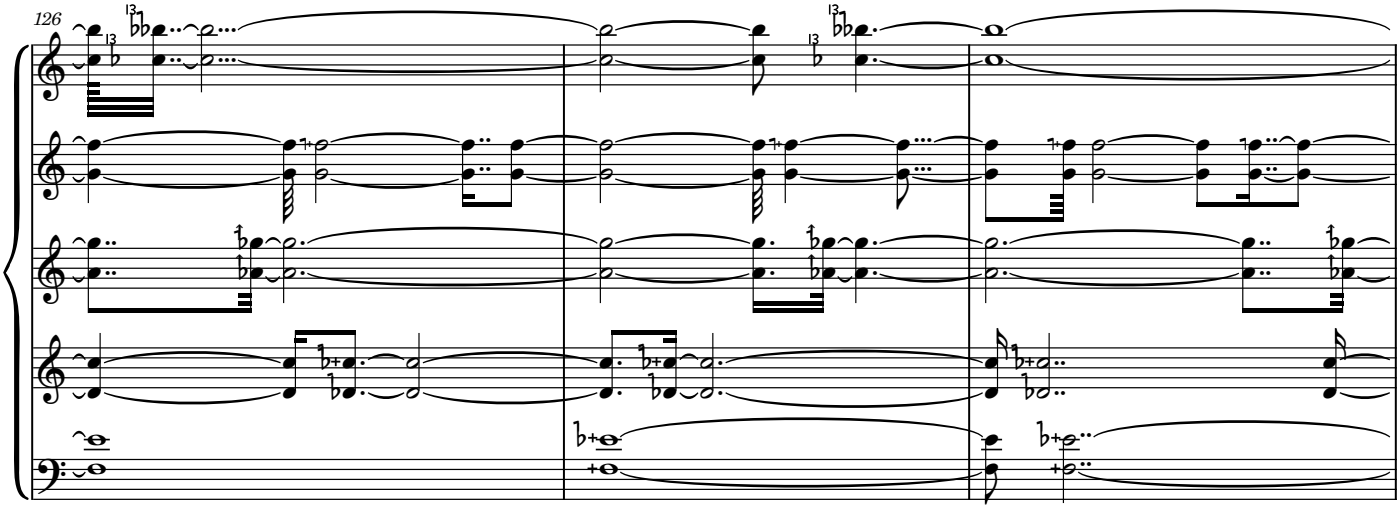

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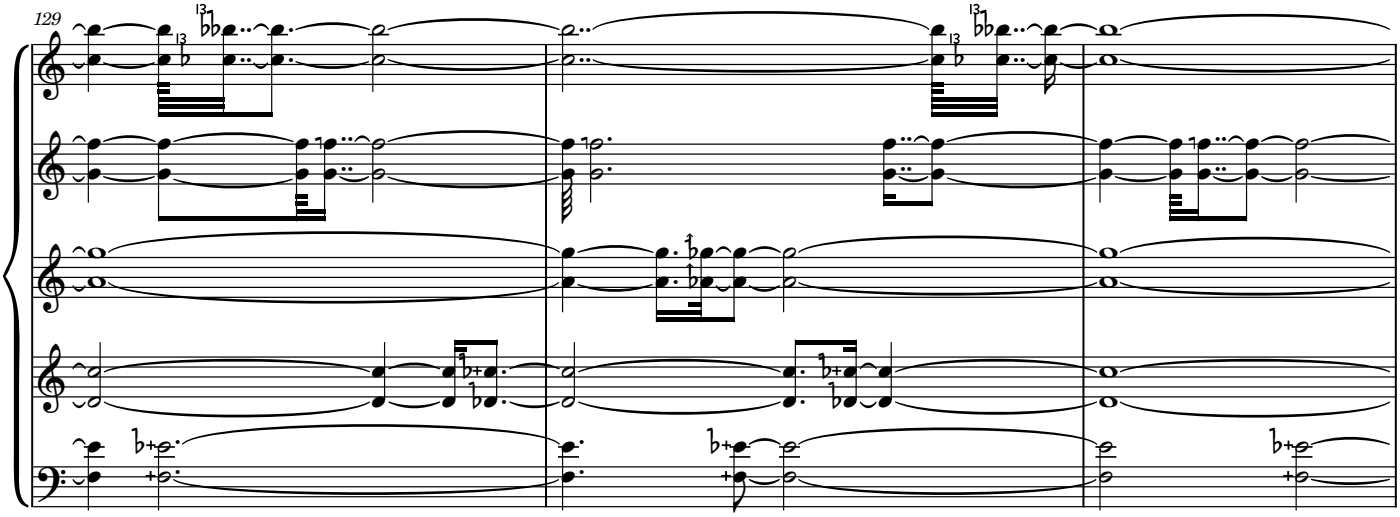

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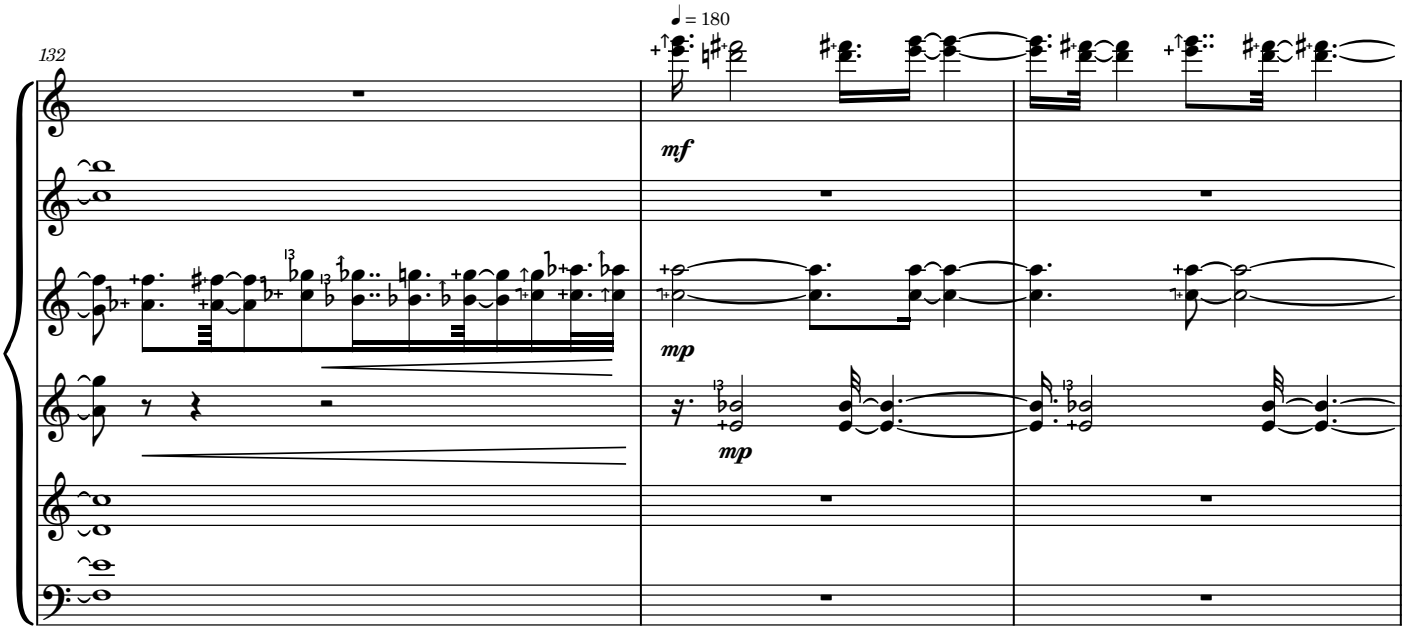

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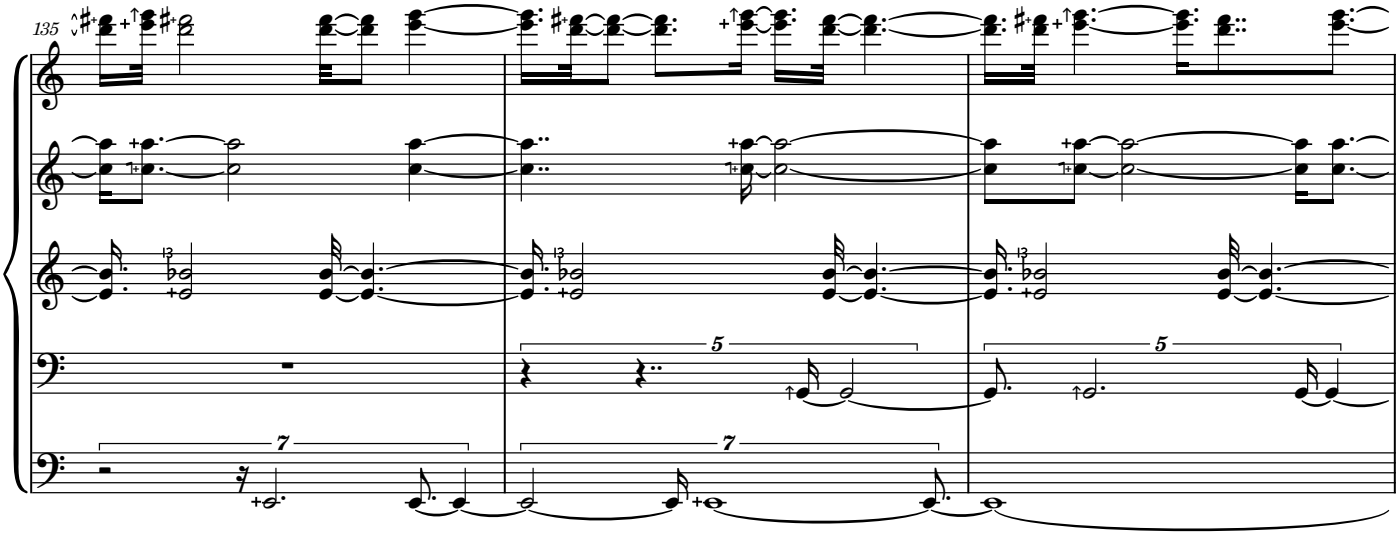

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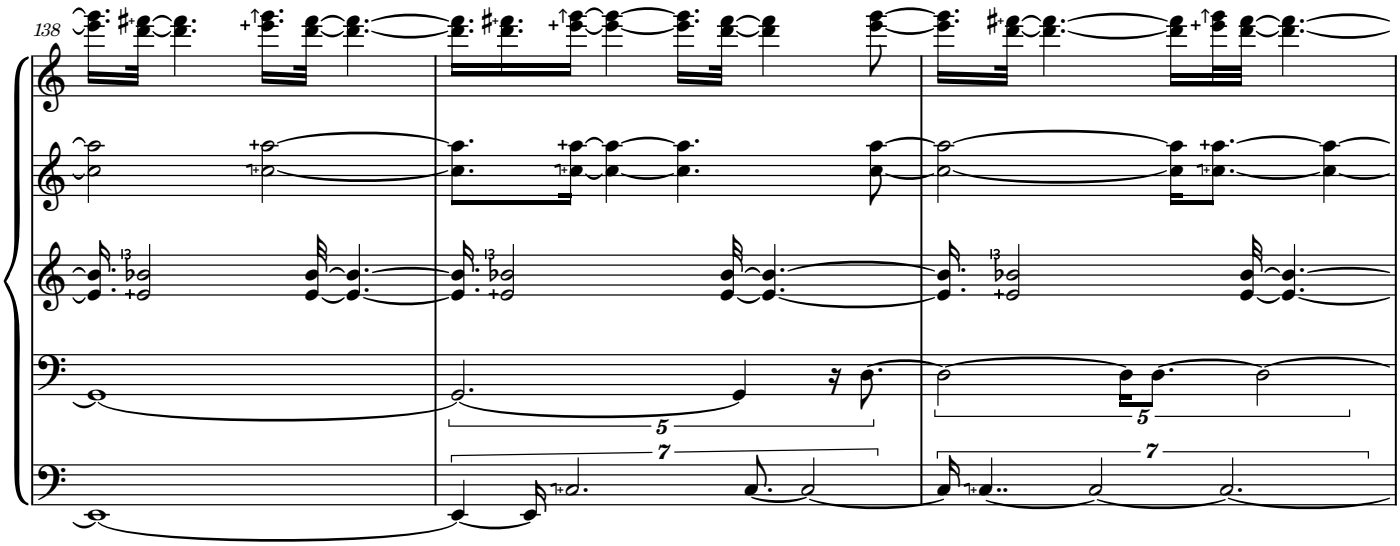

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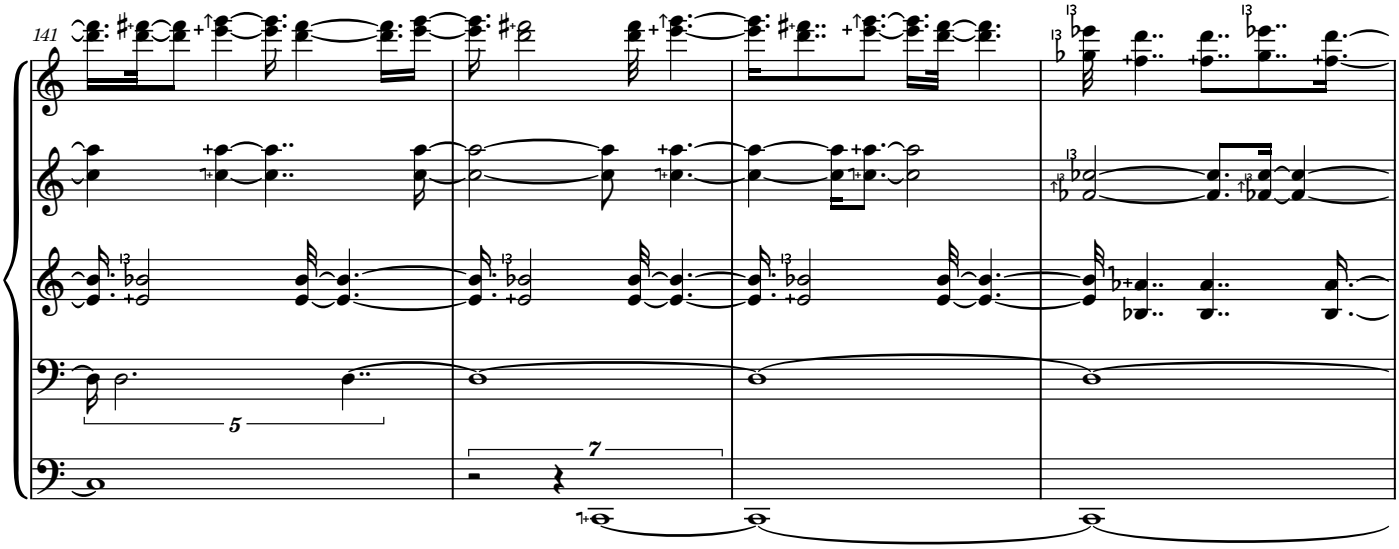

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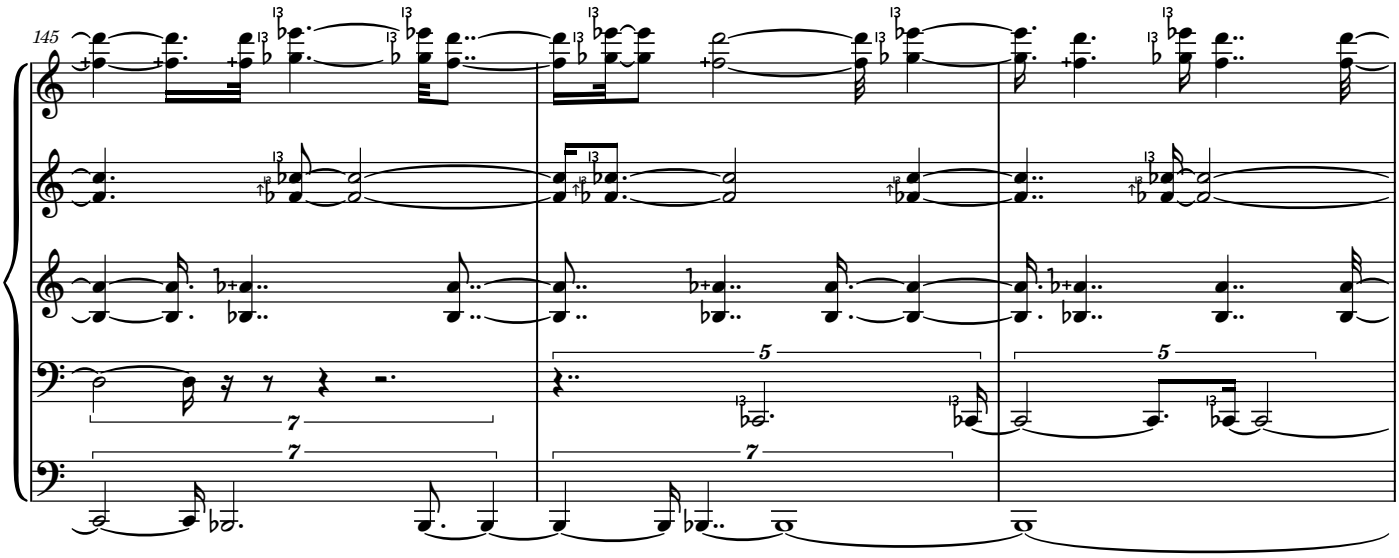

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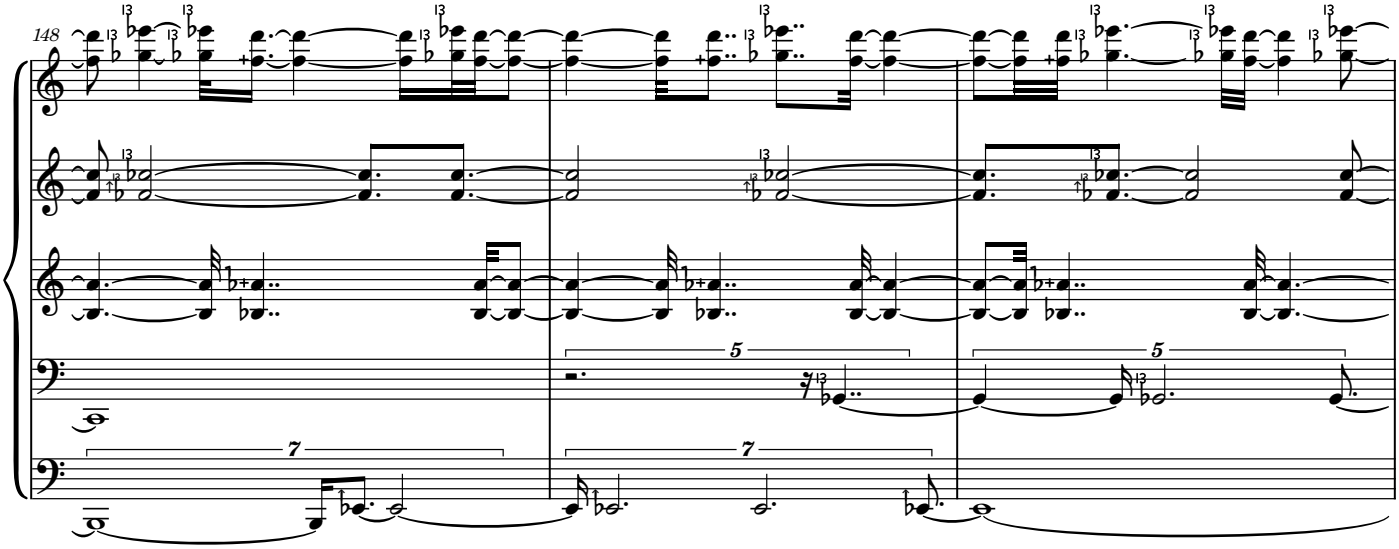

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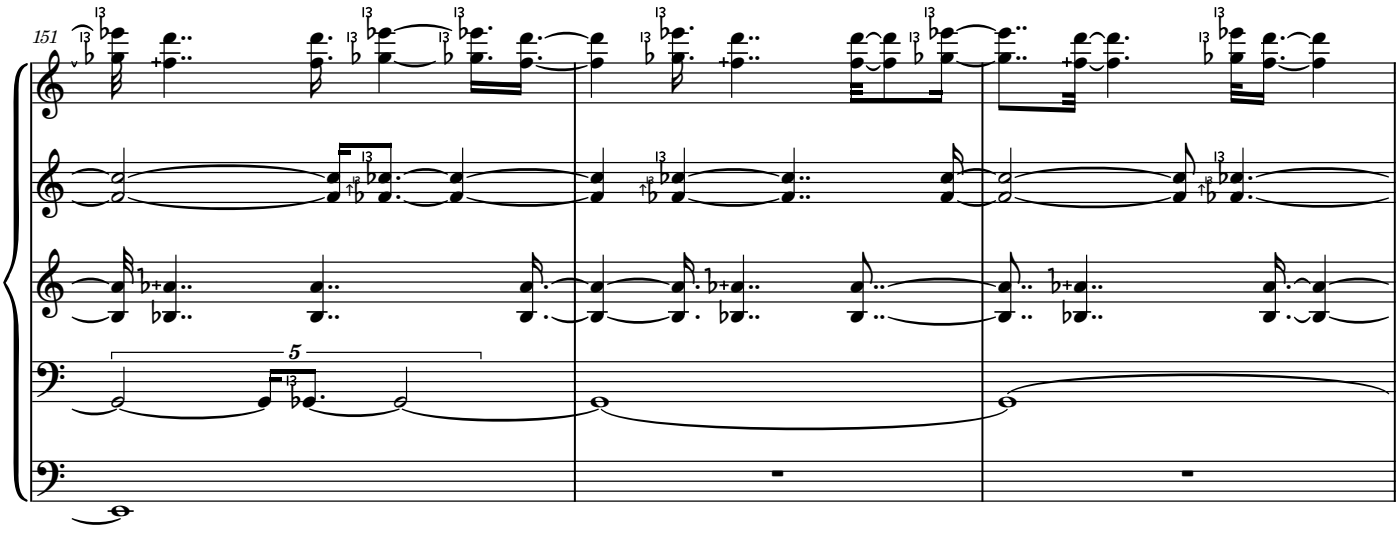

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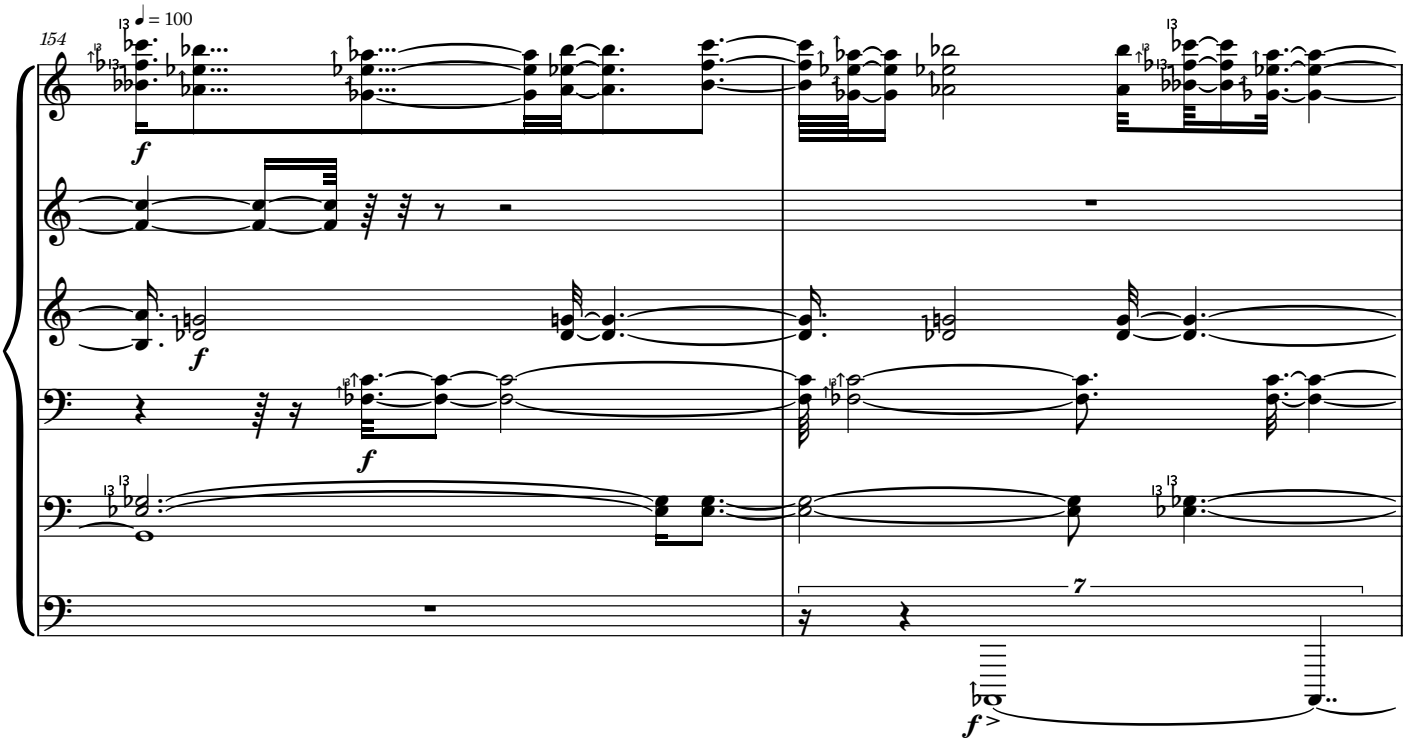

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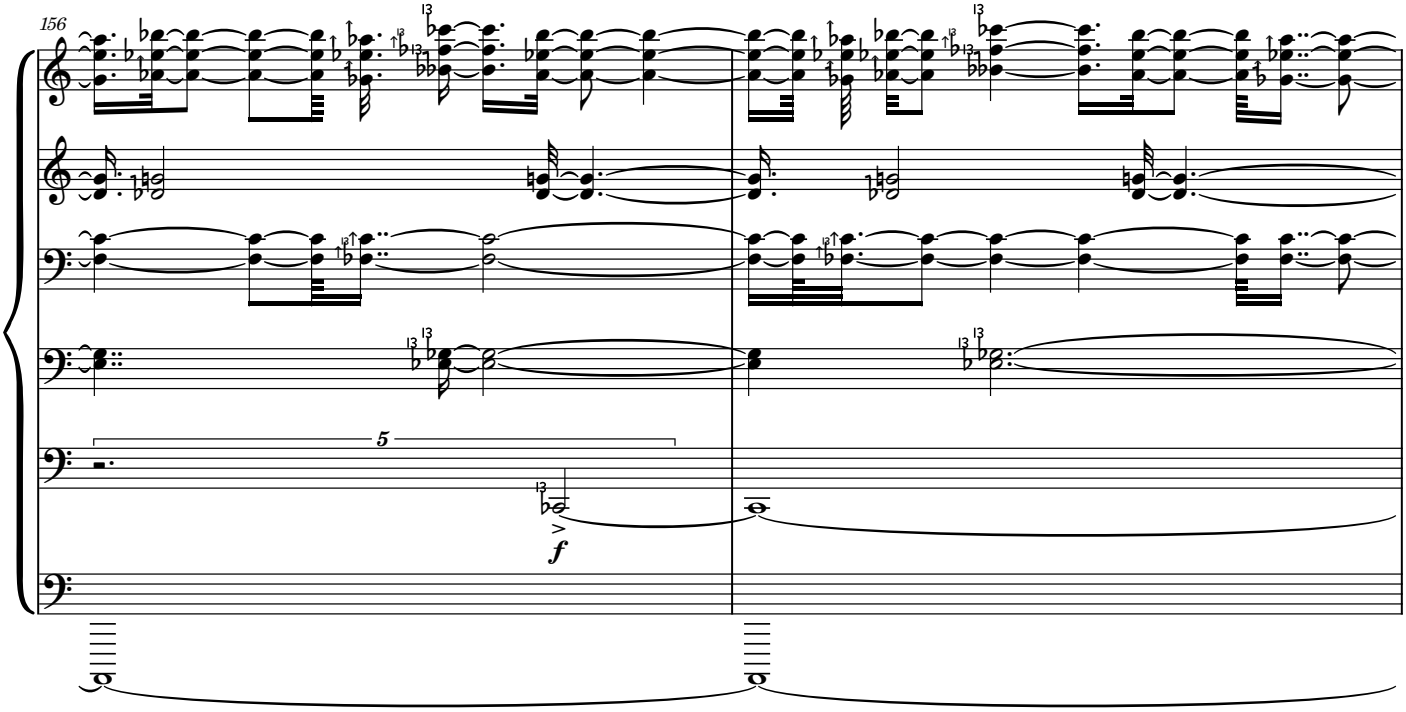

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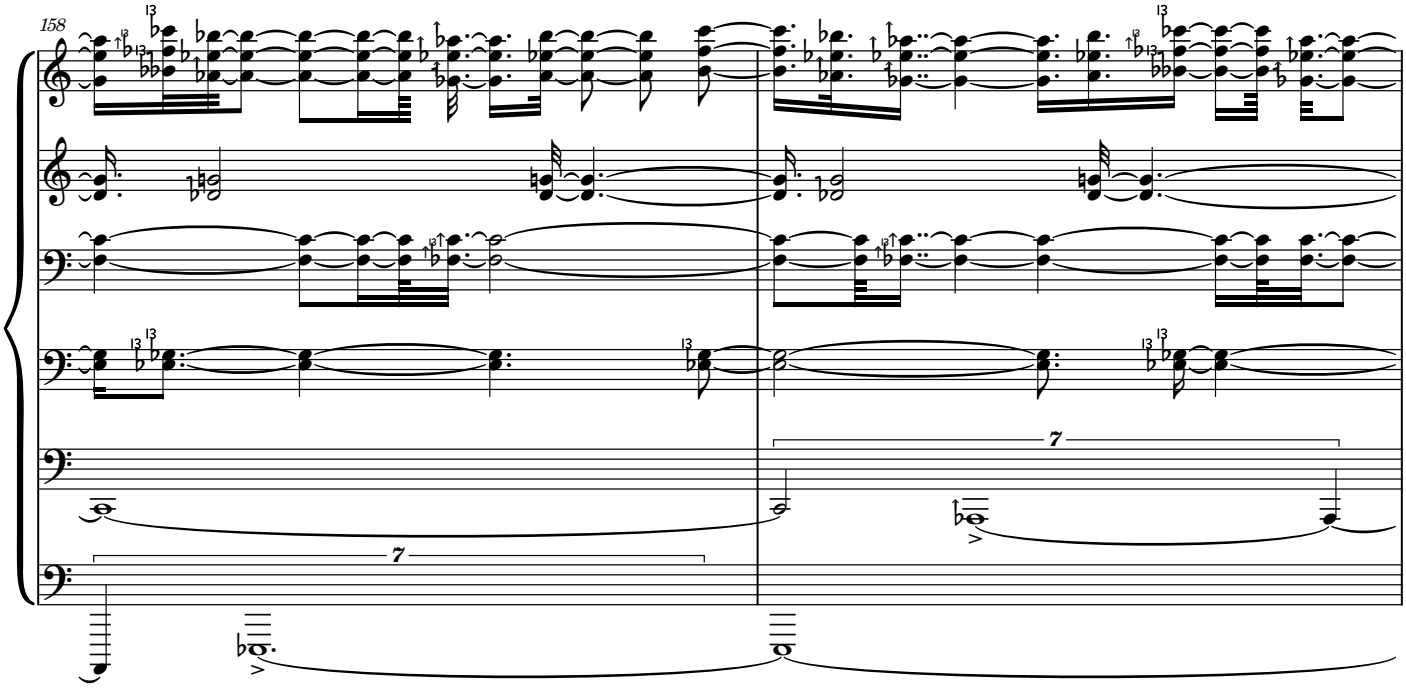

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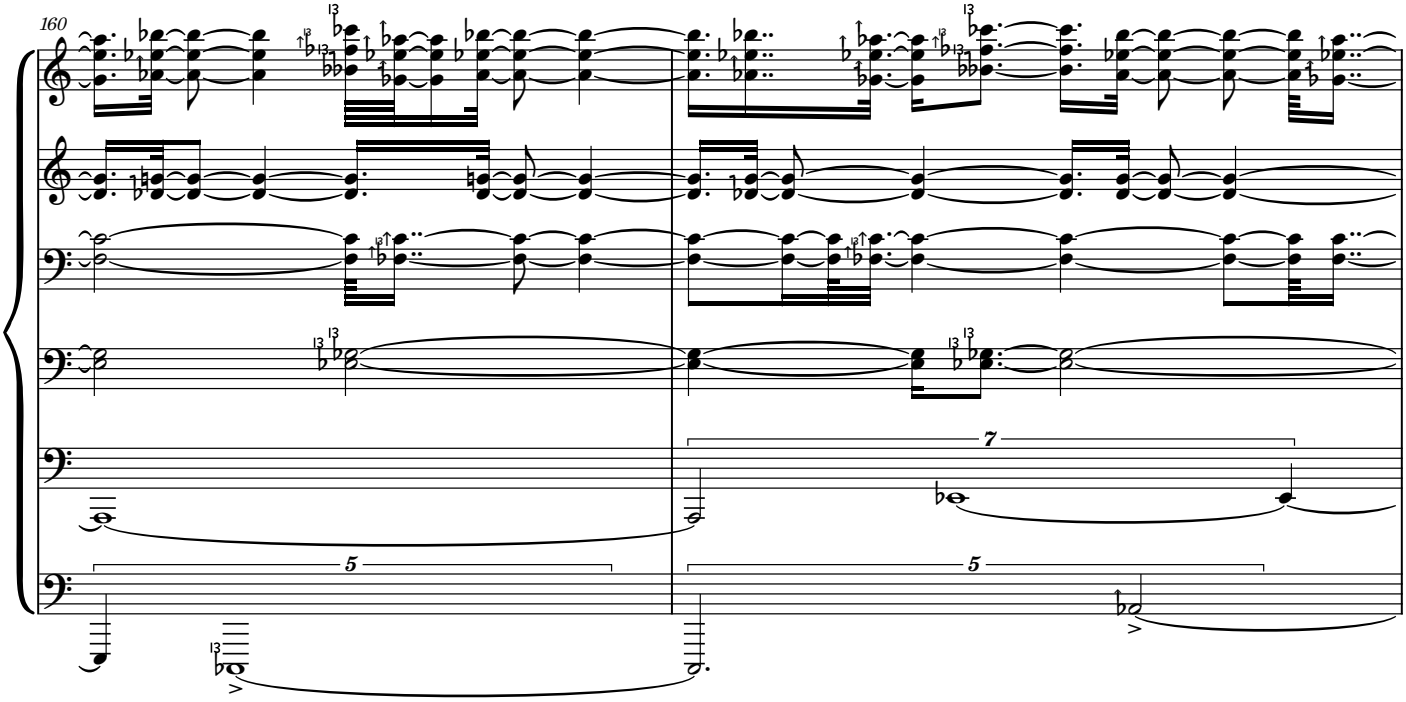

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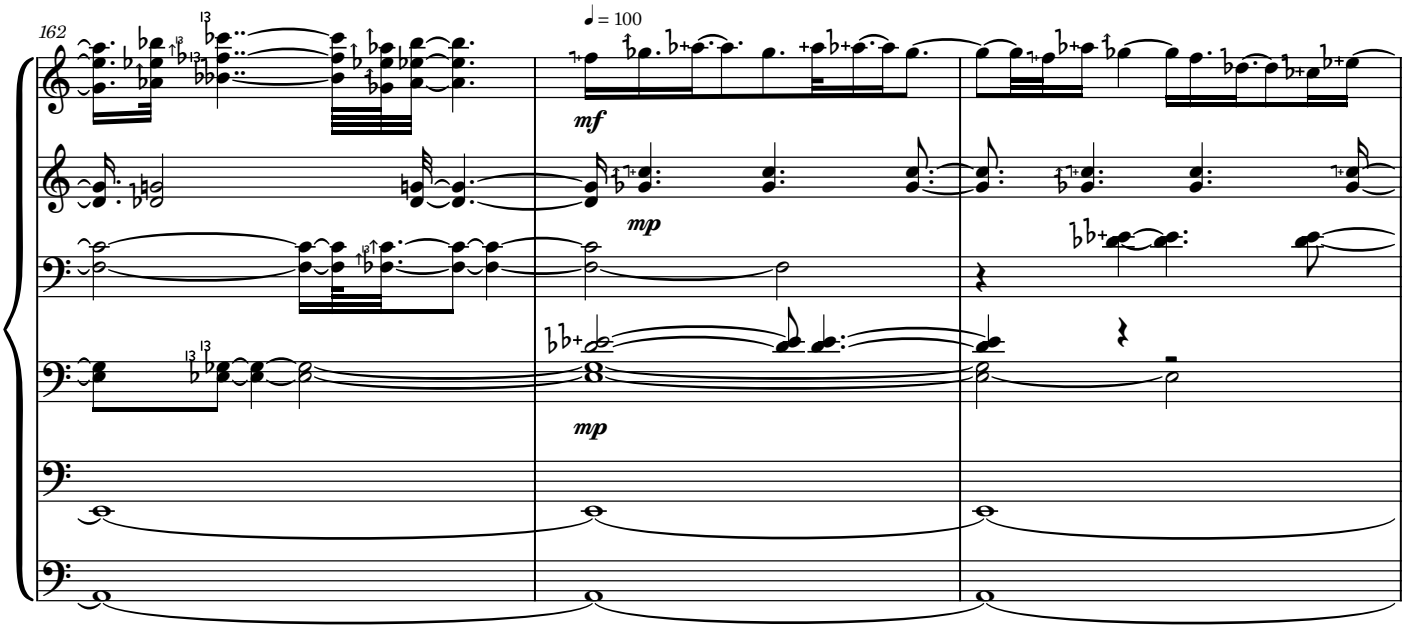

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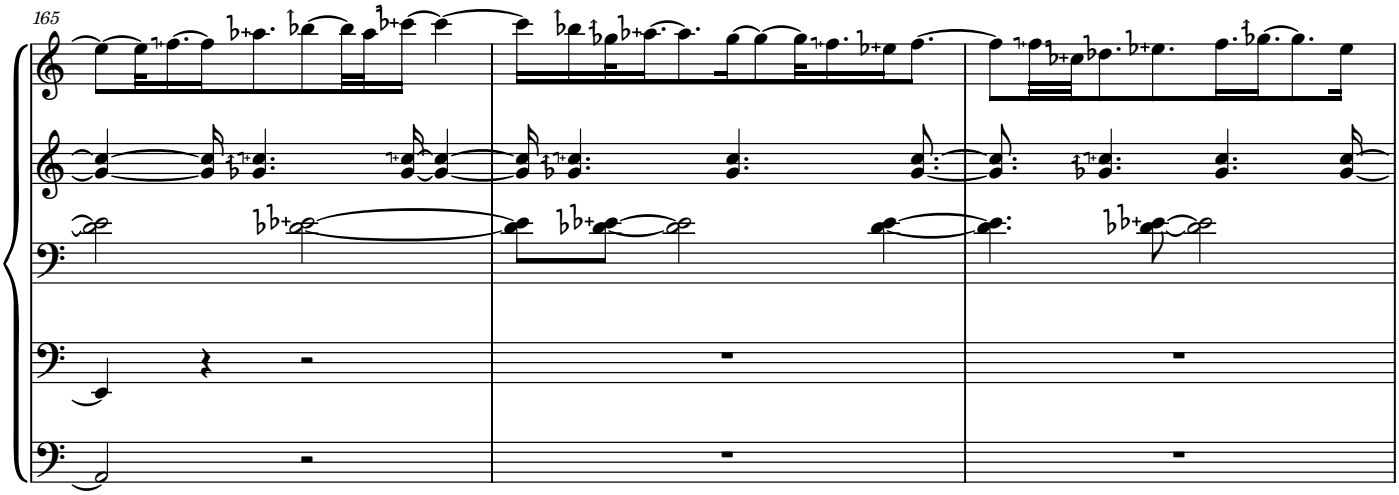

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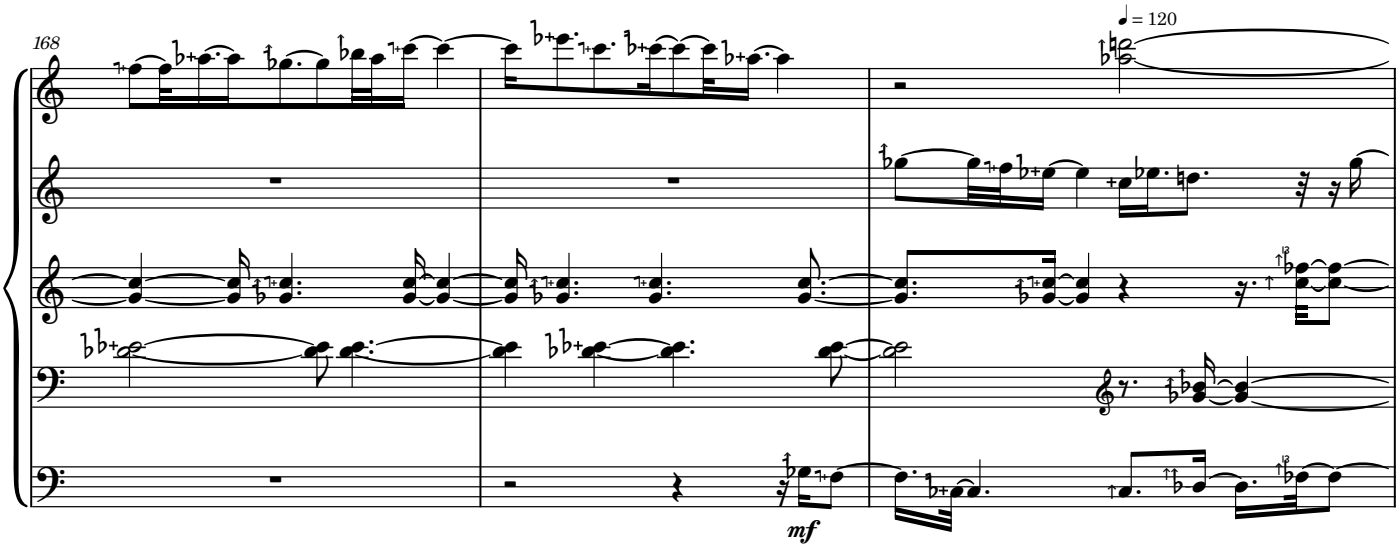

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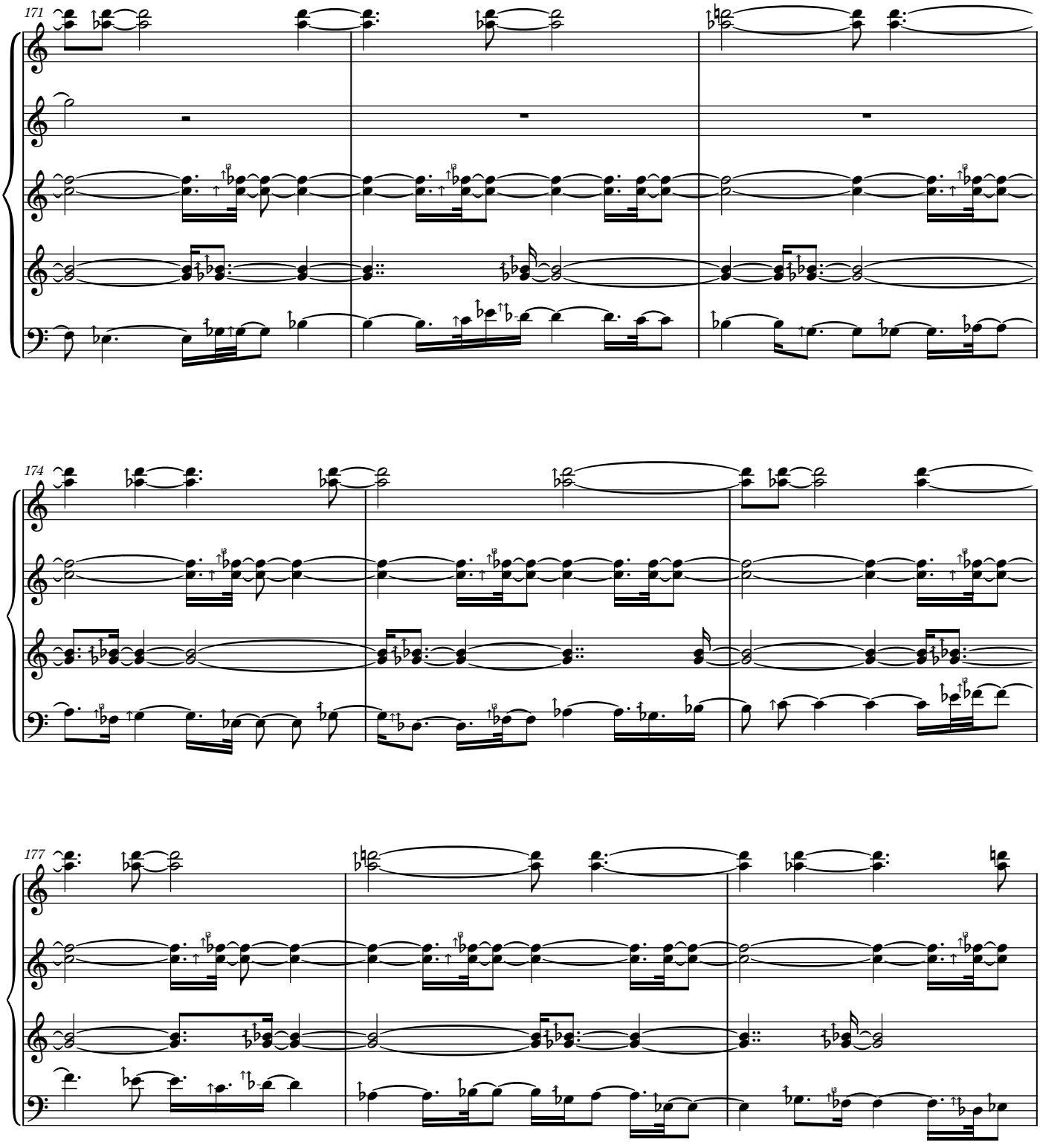

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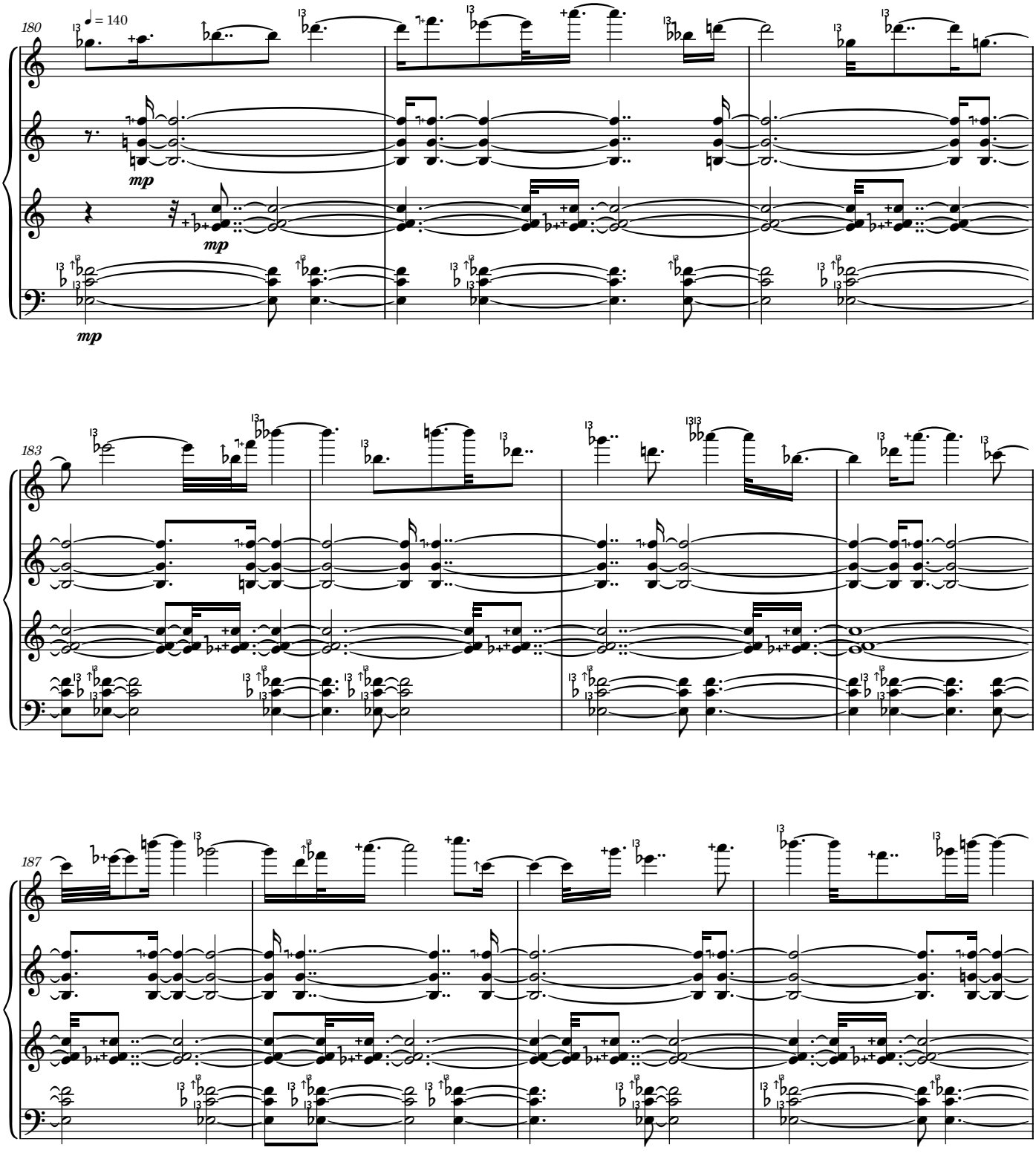

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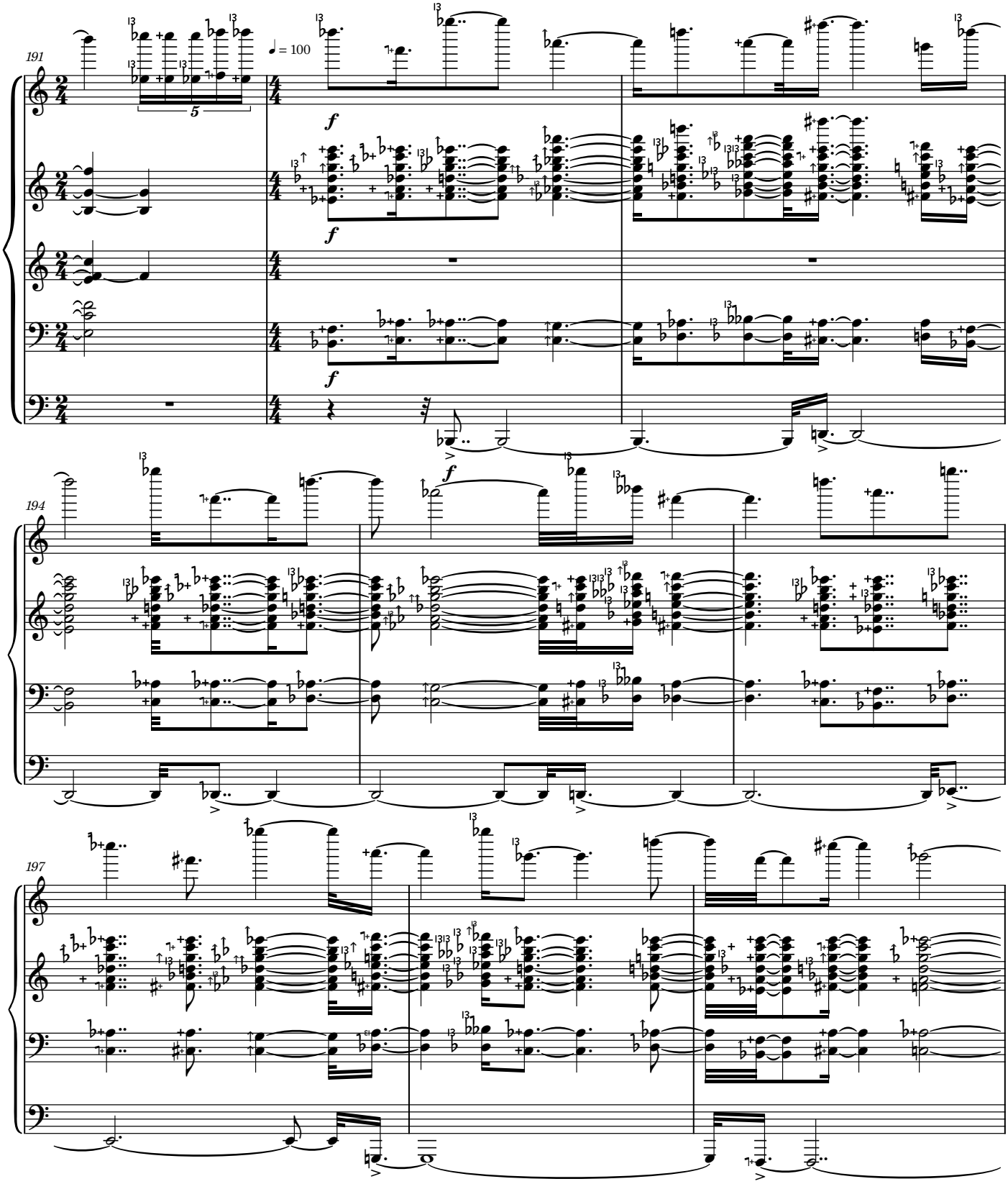

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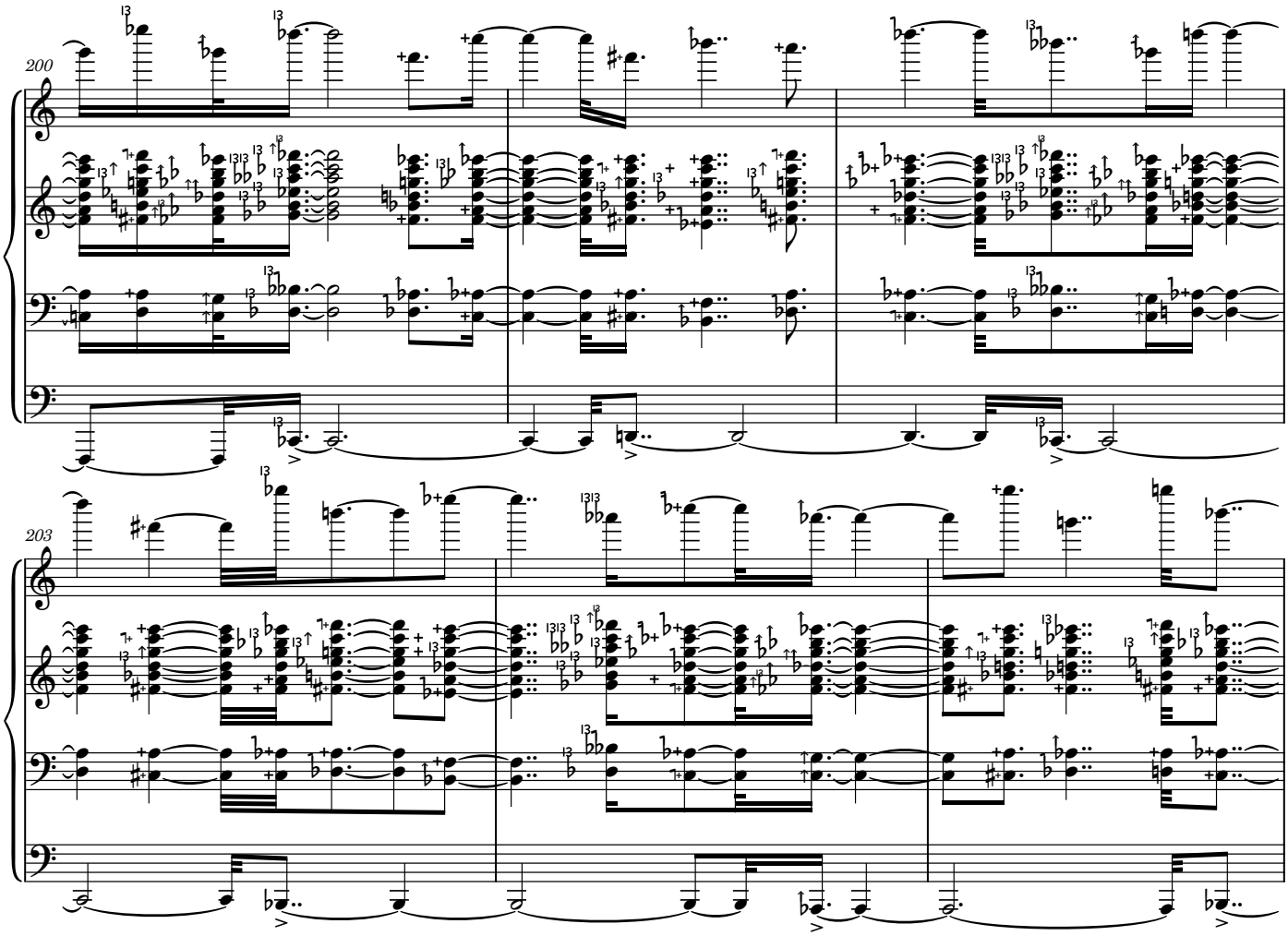

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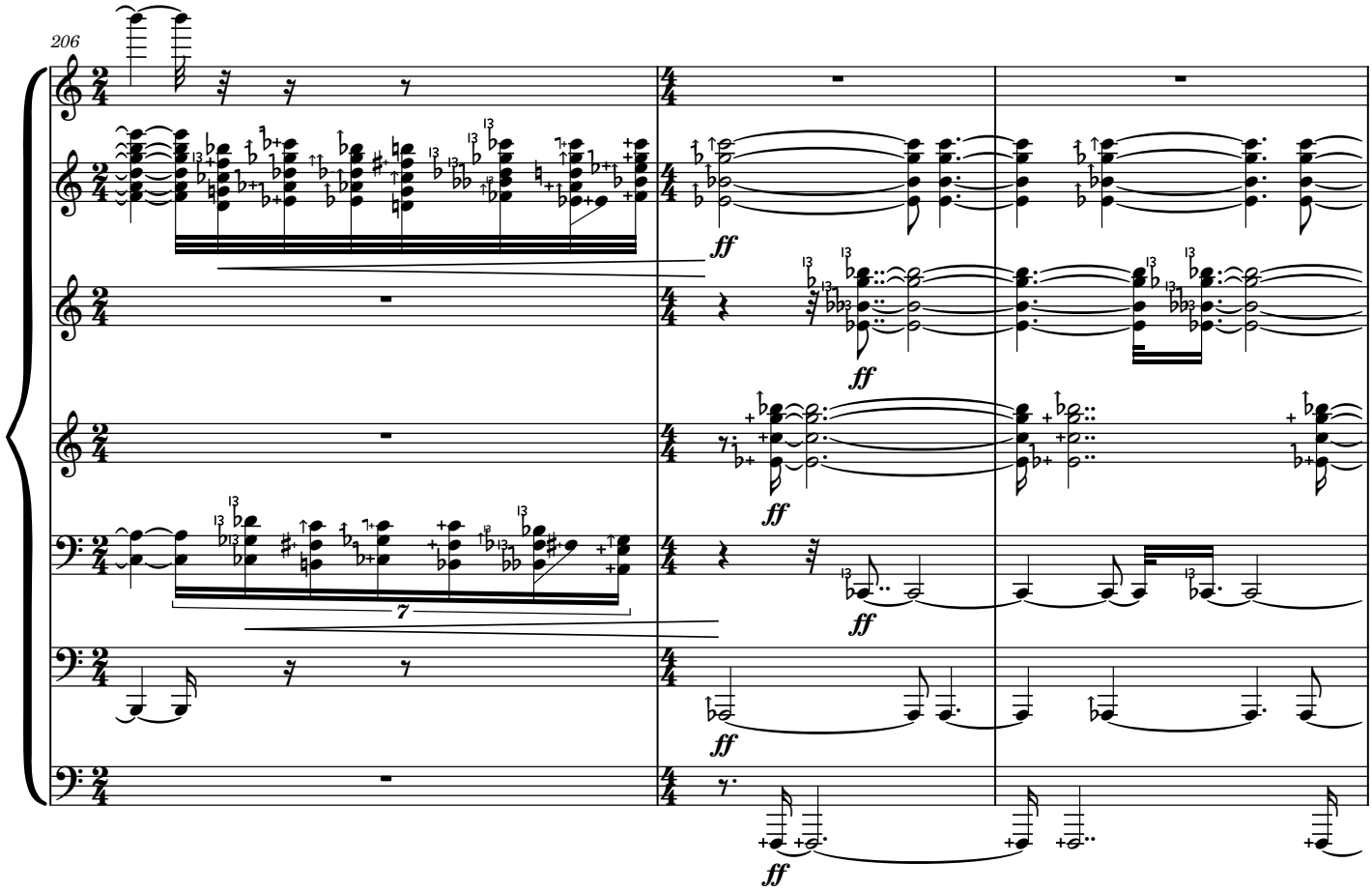

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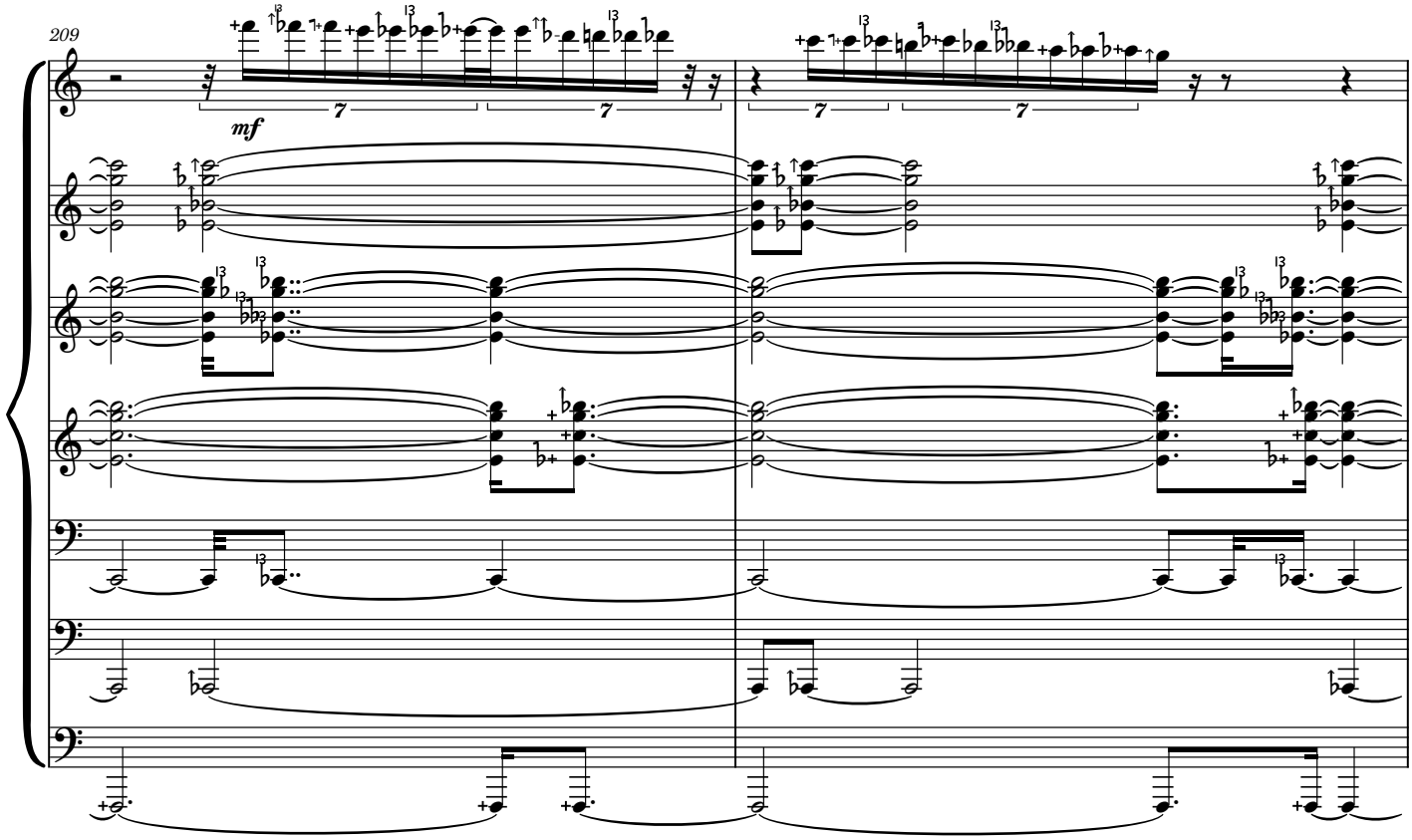

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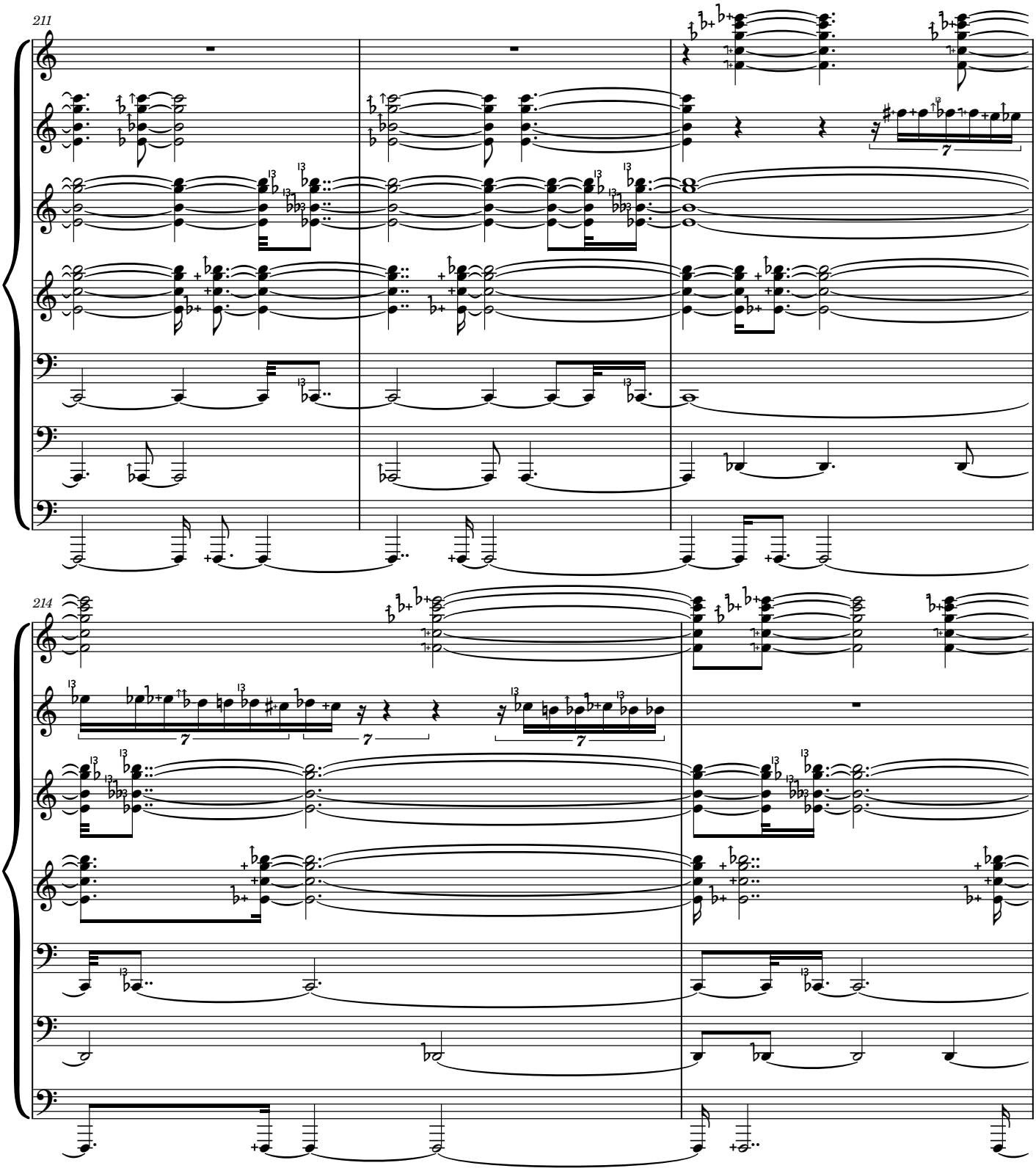

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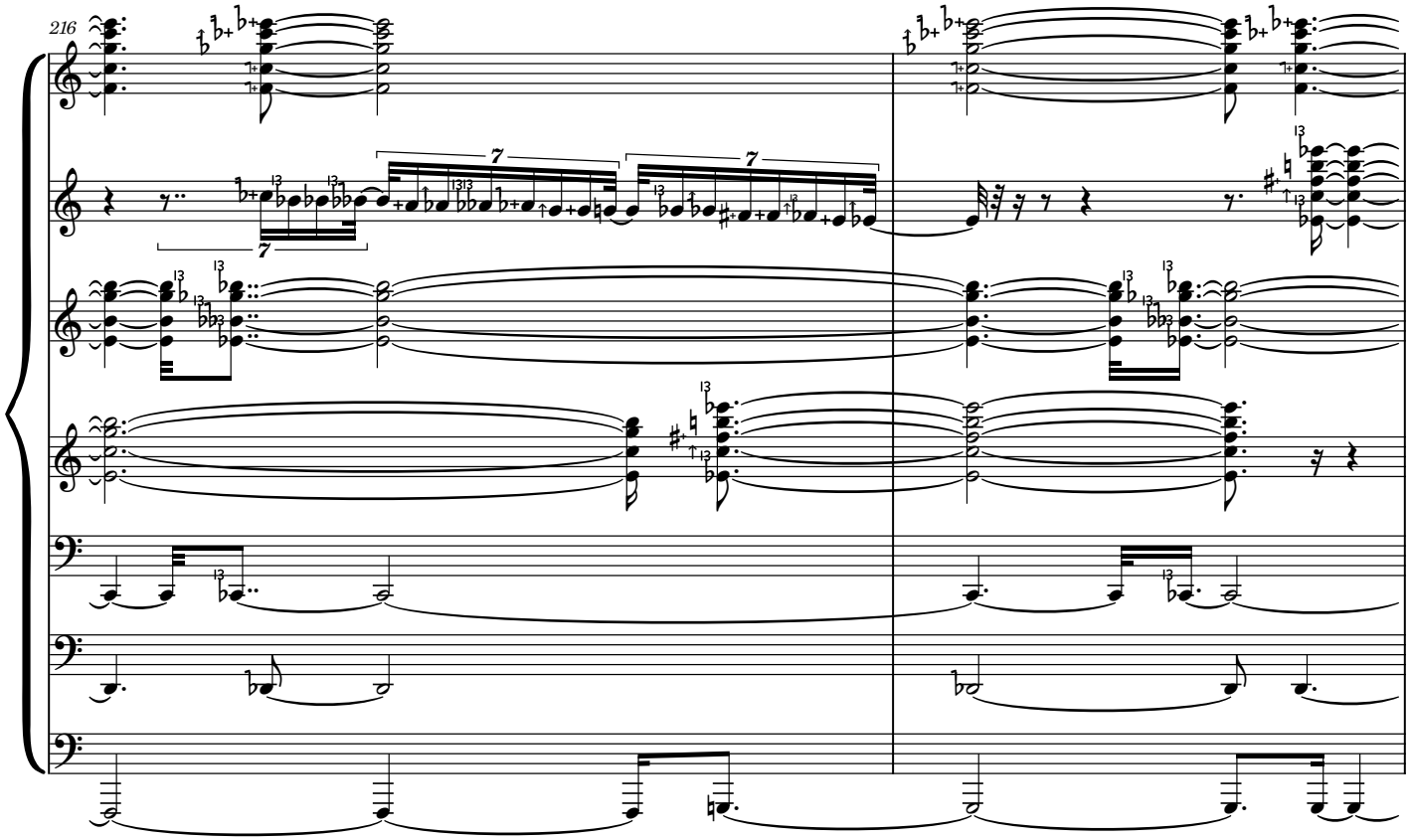

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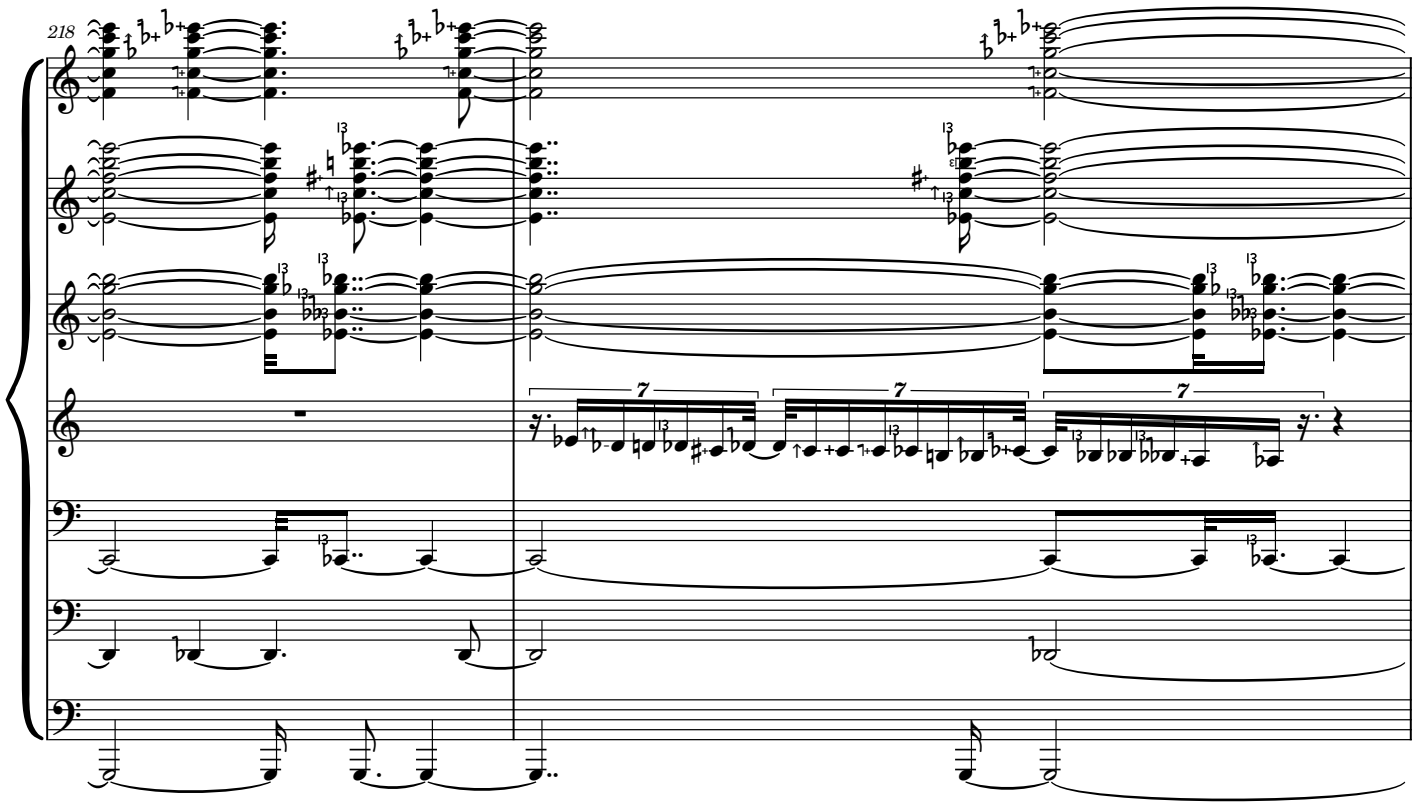

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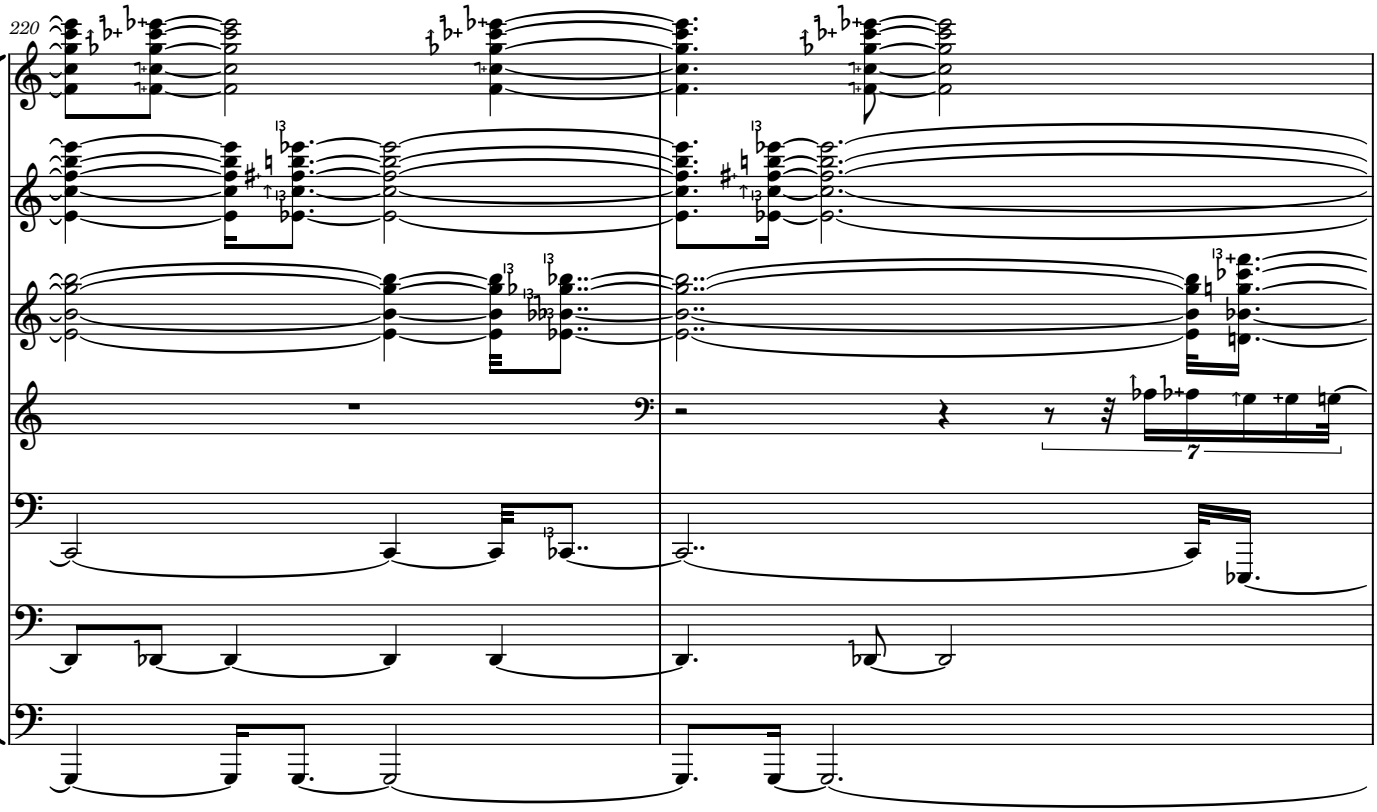

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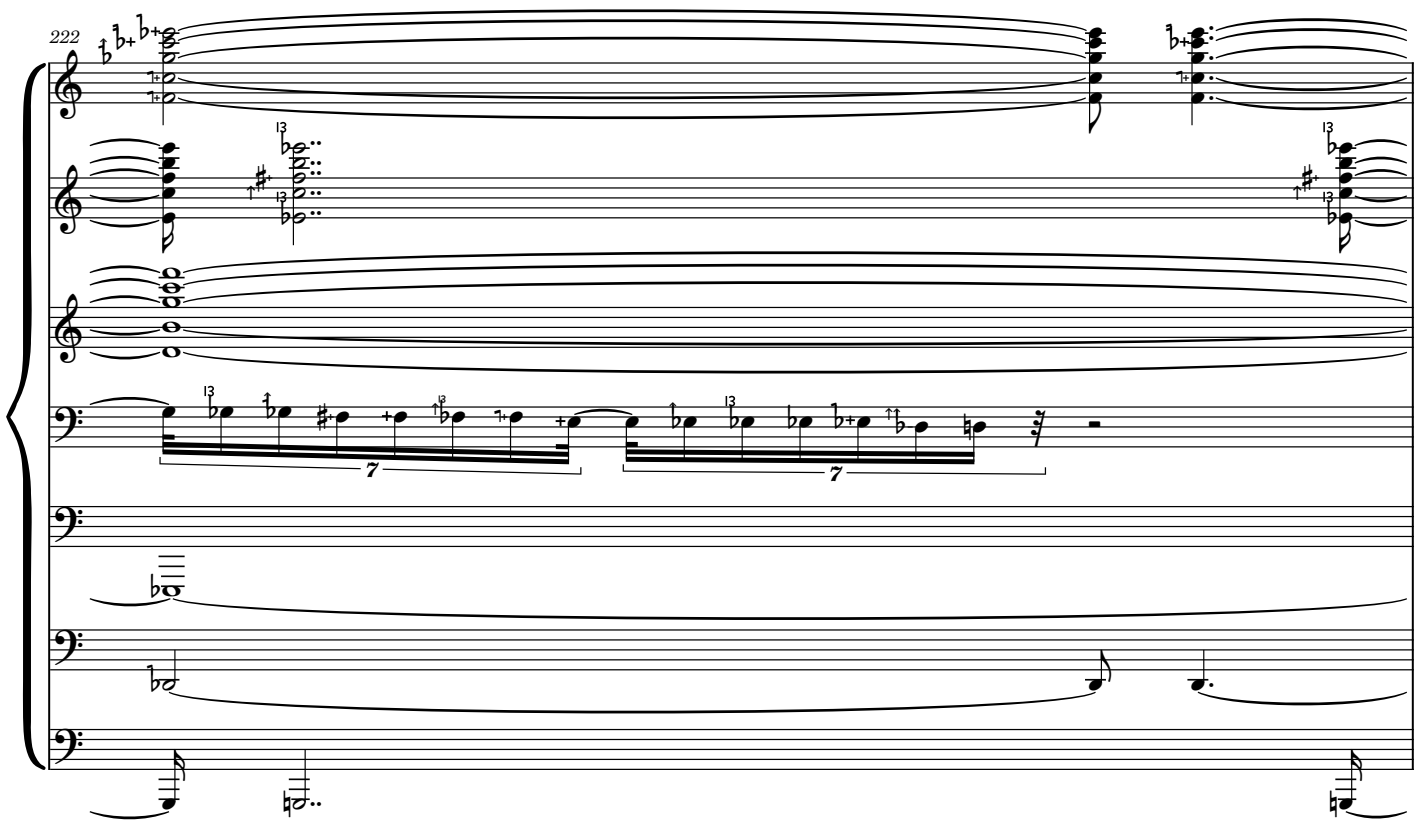

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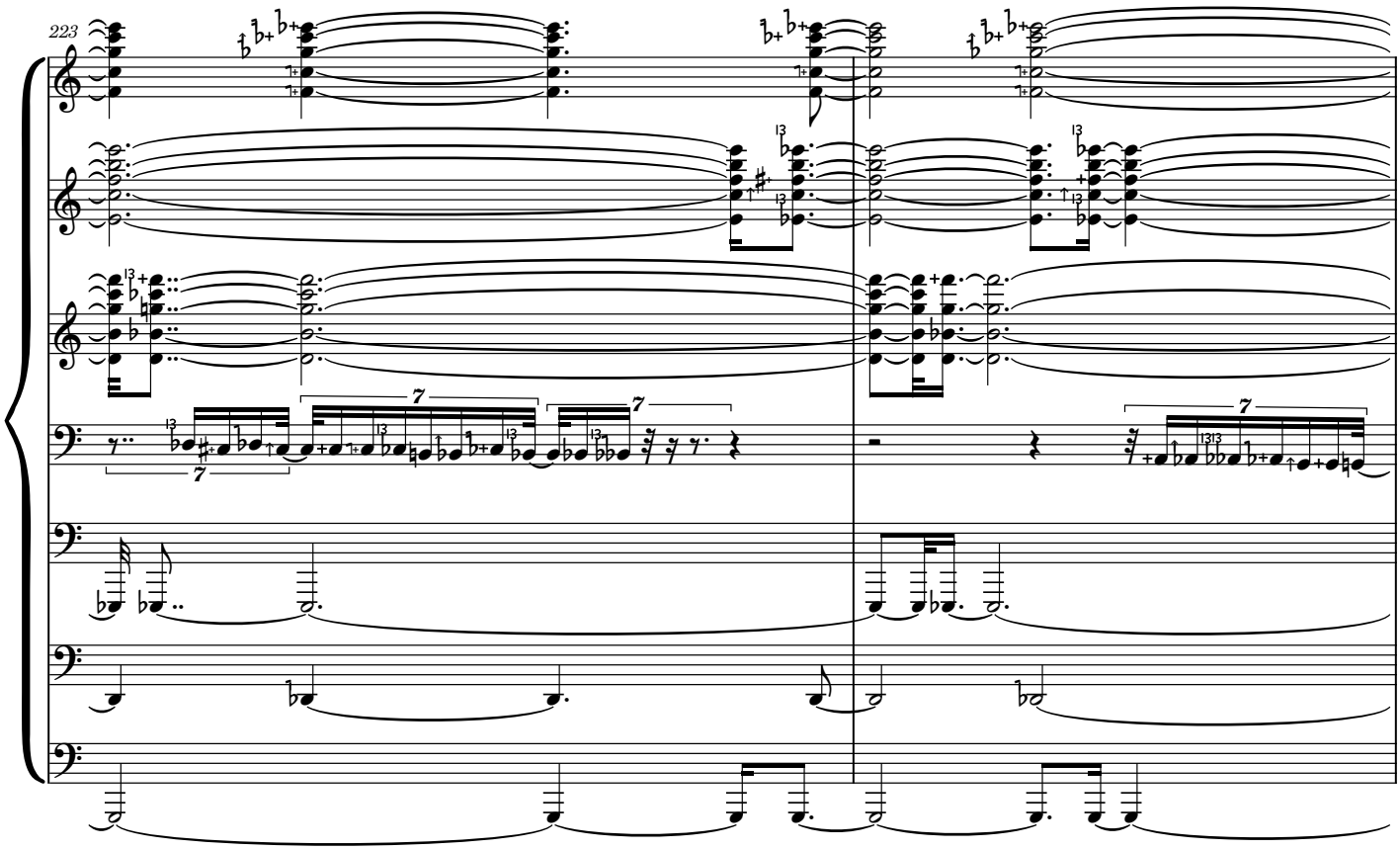

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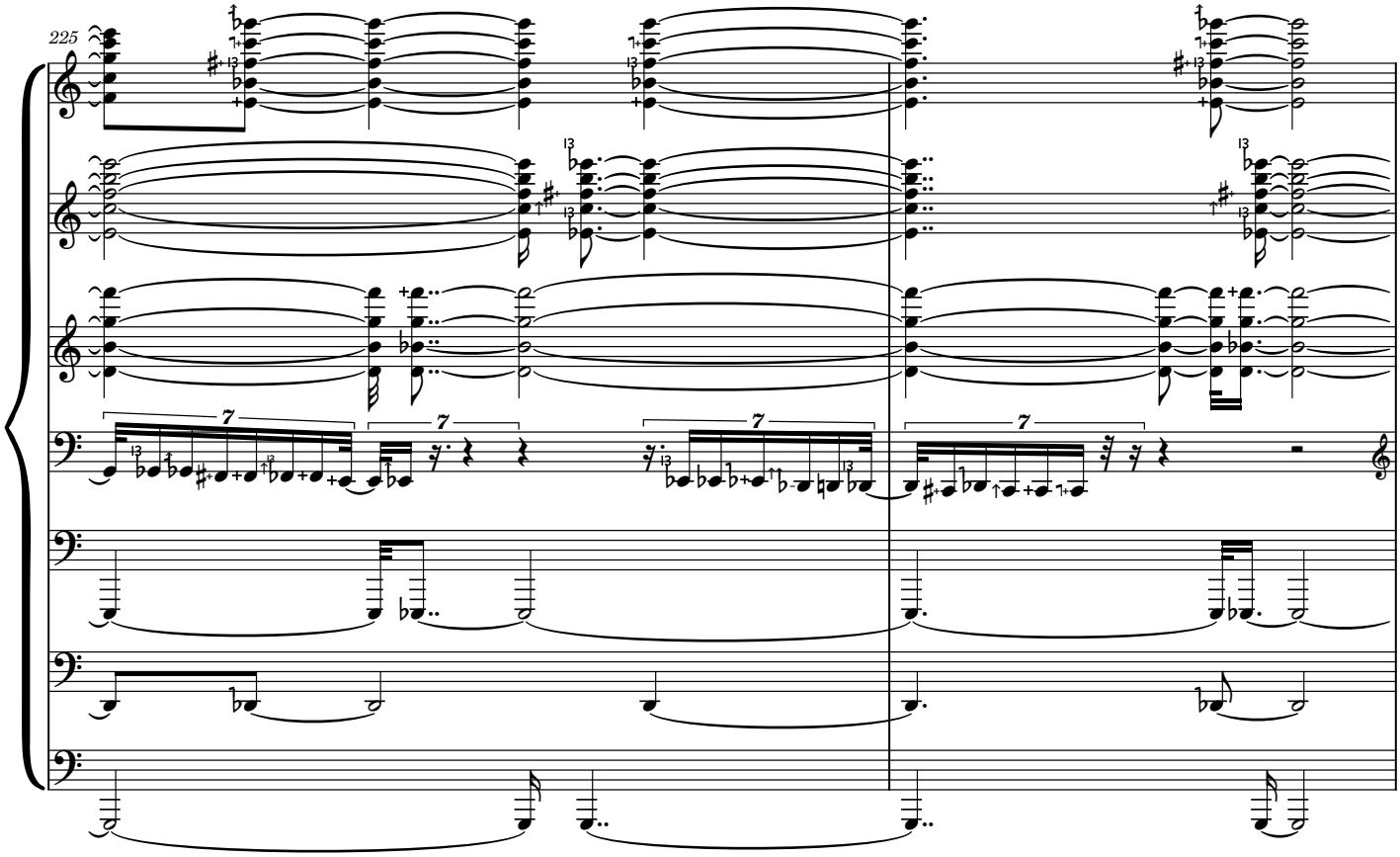

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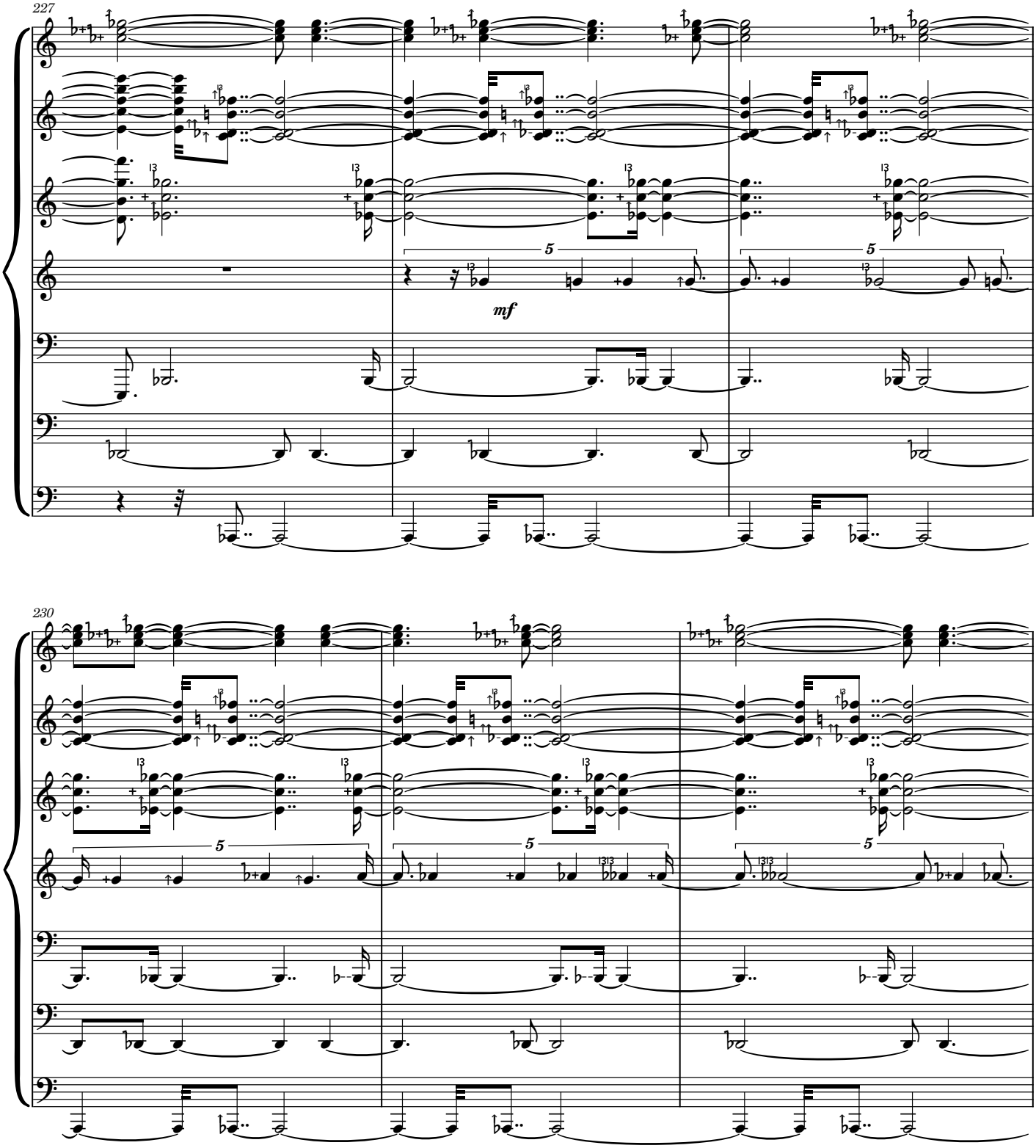

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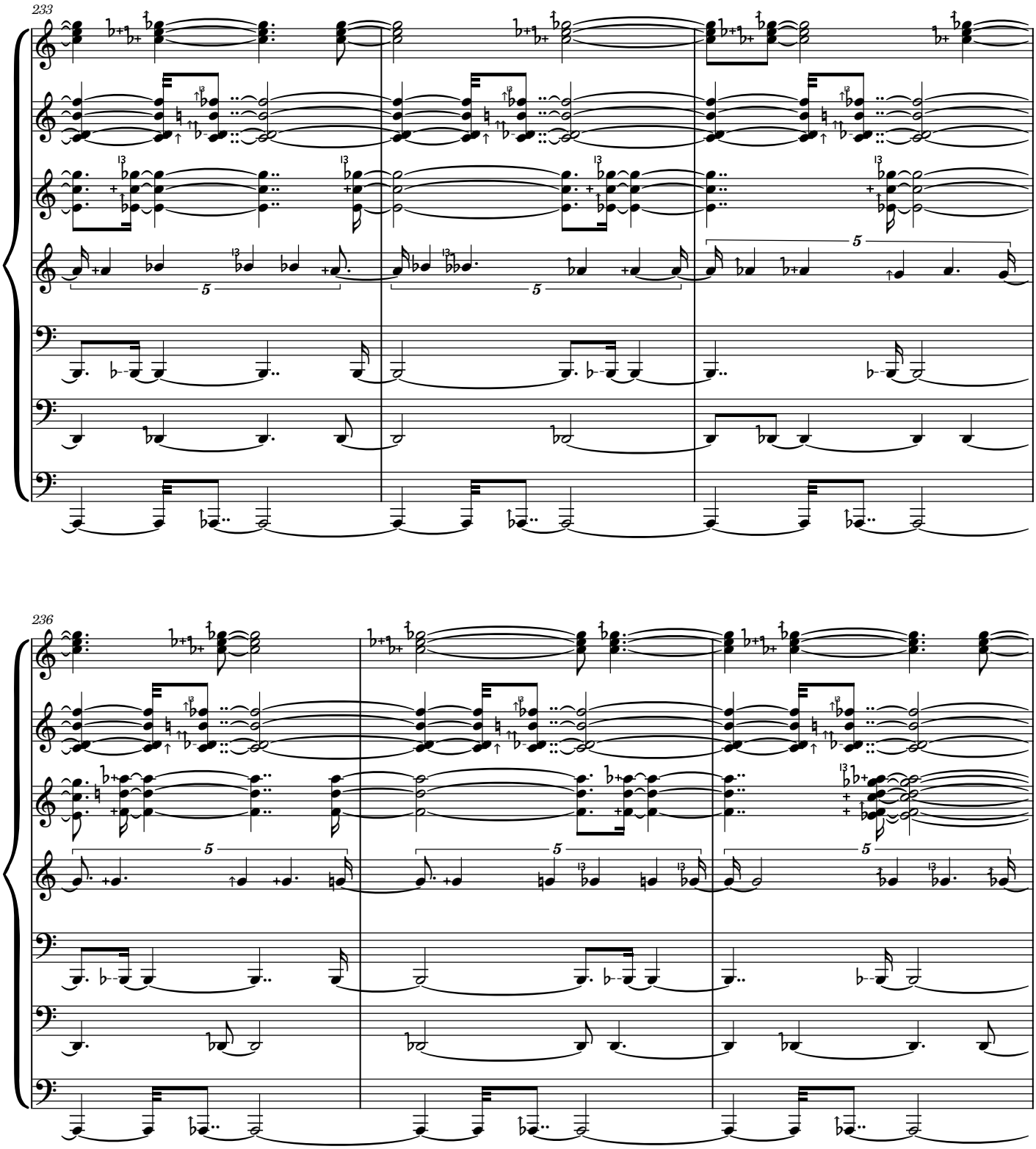

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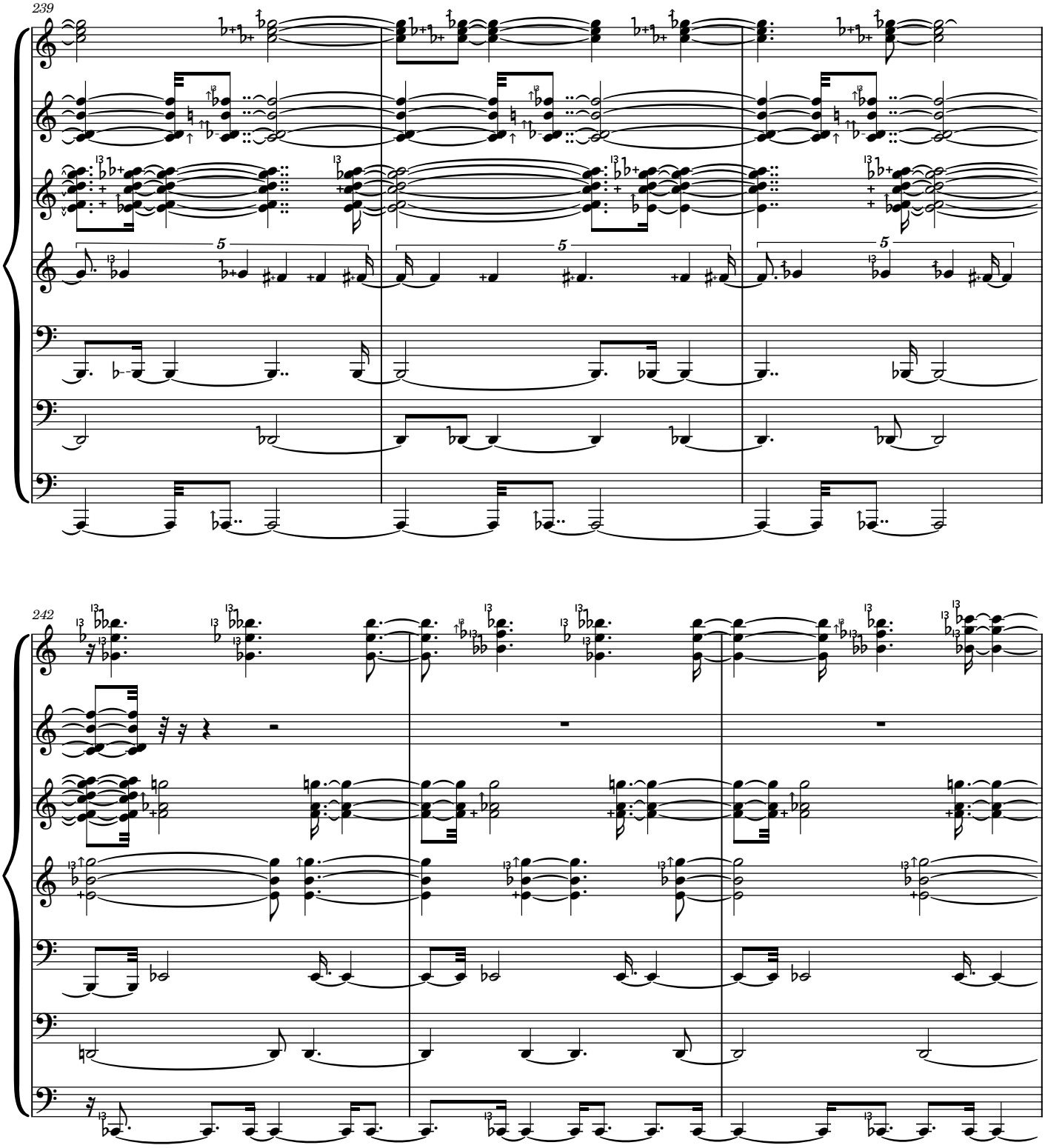

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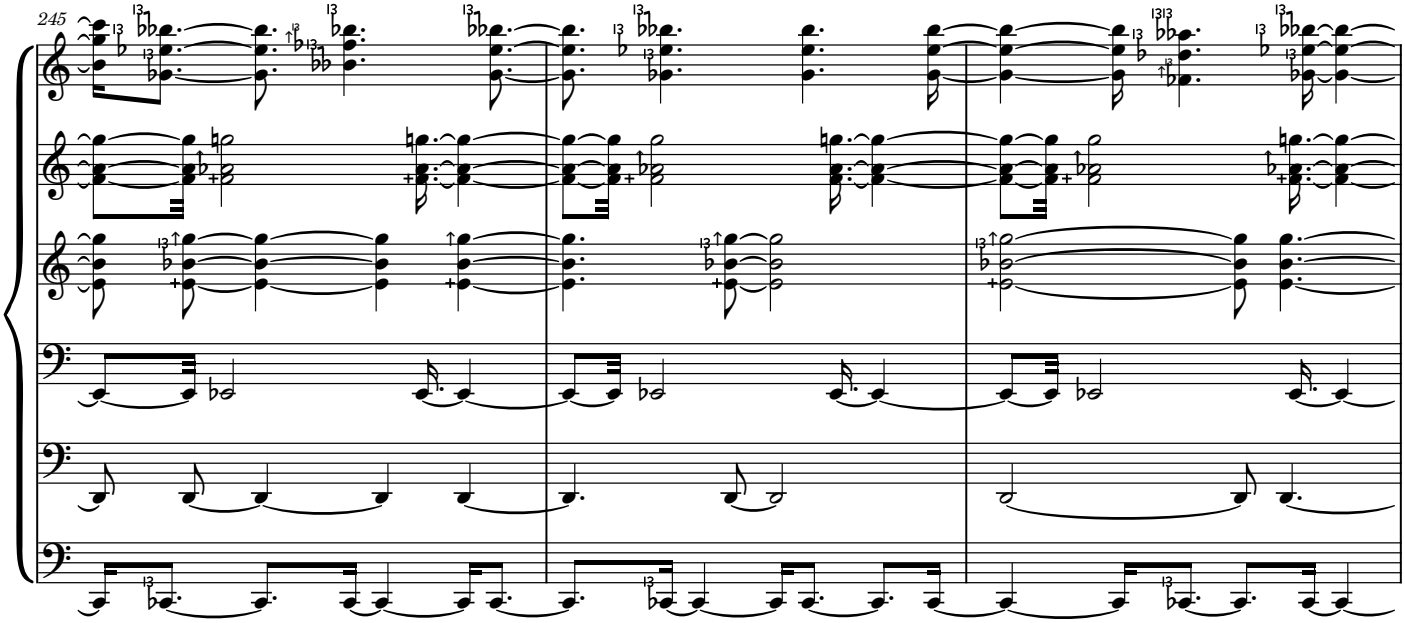

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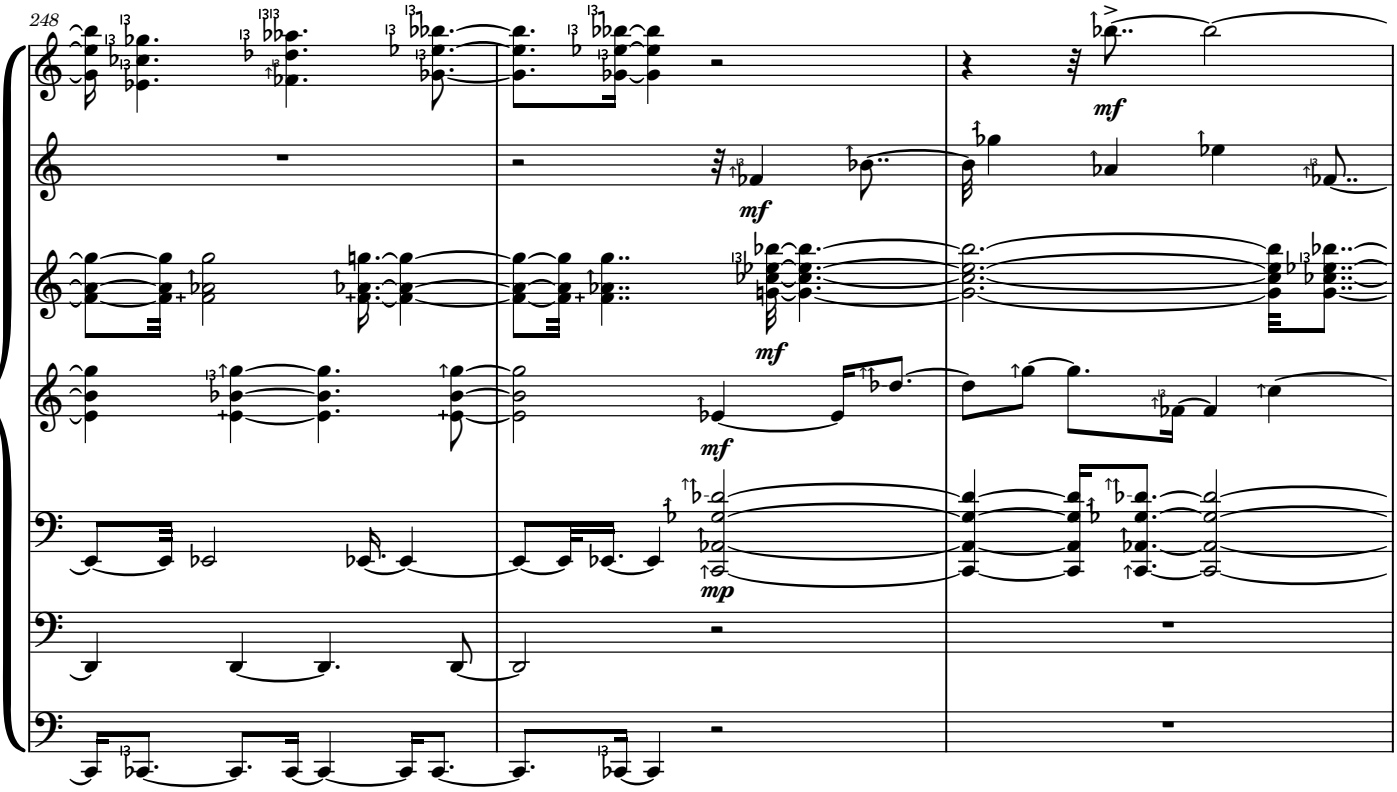

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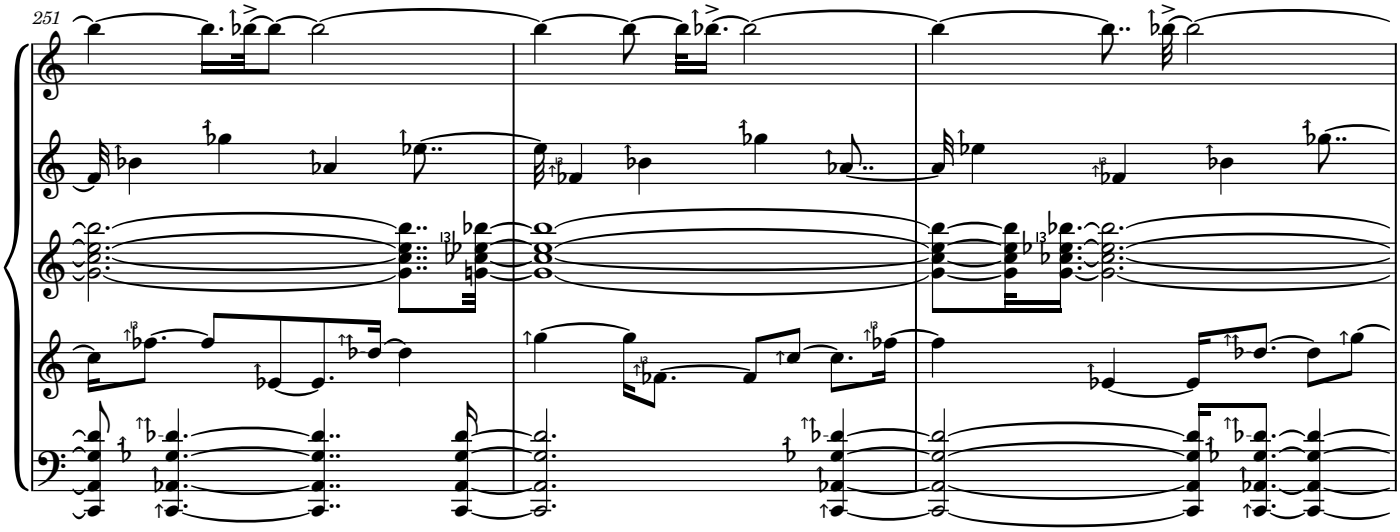

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mf
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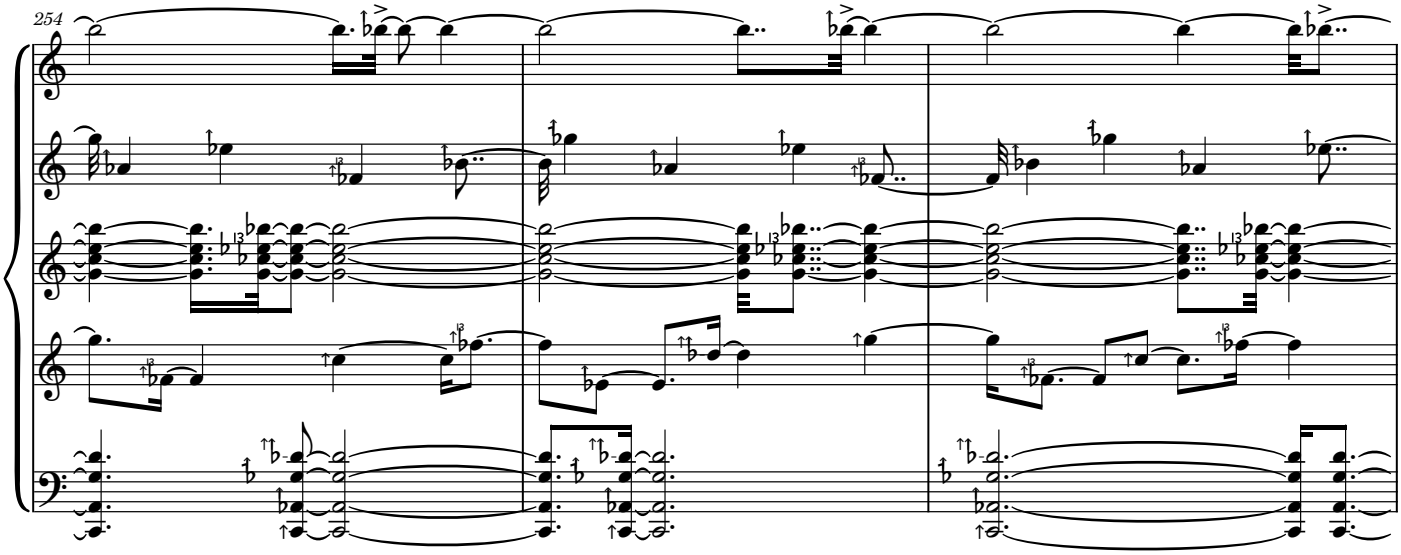

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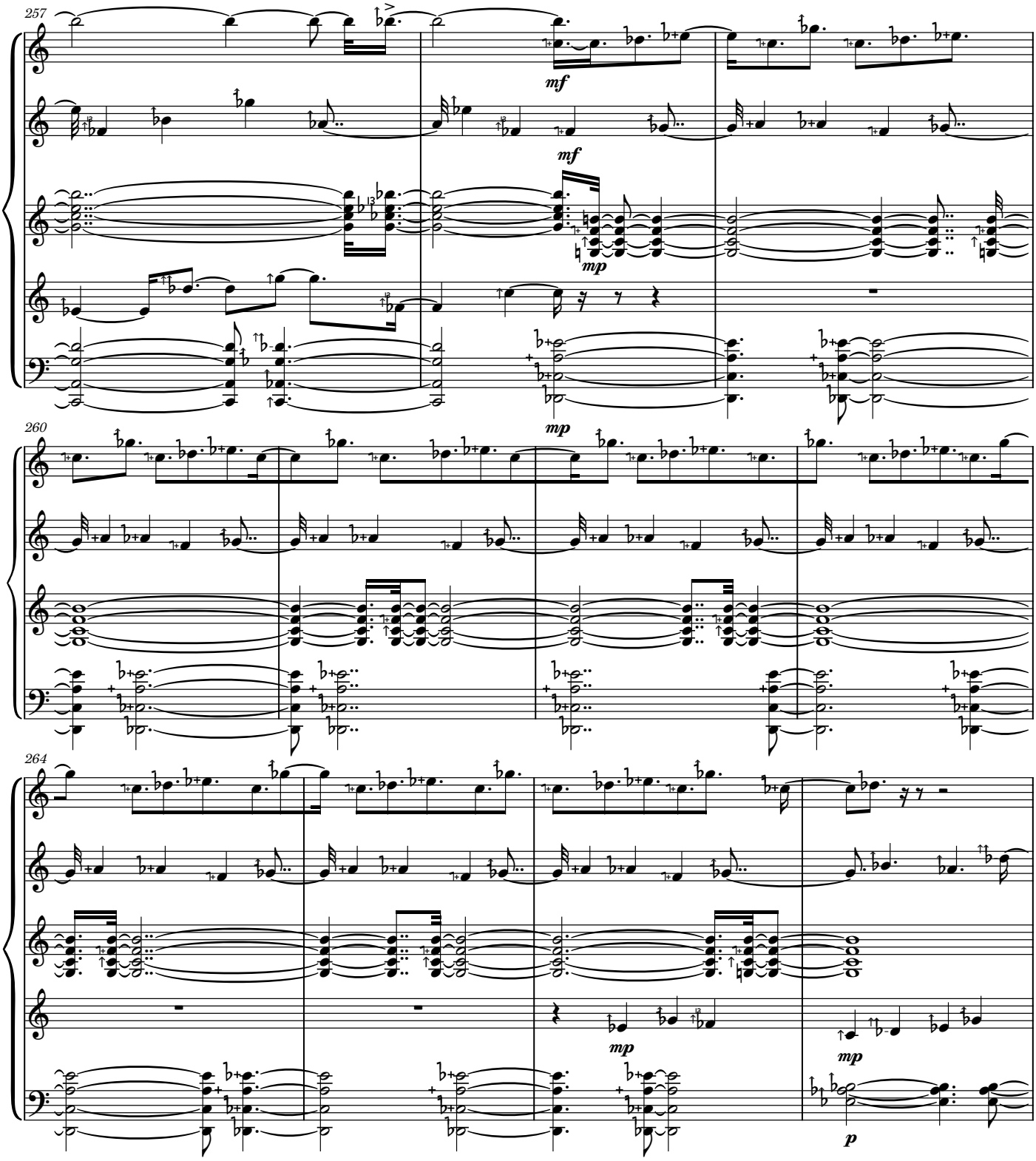

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5
5
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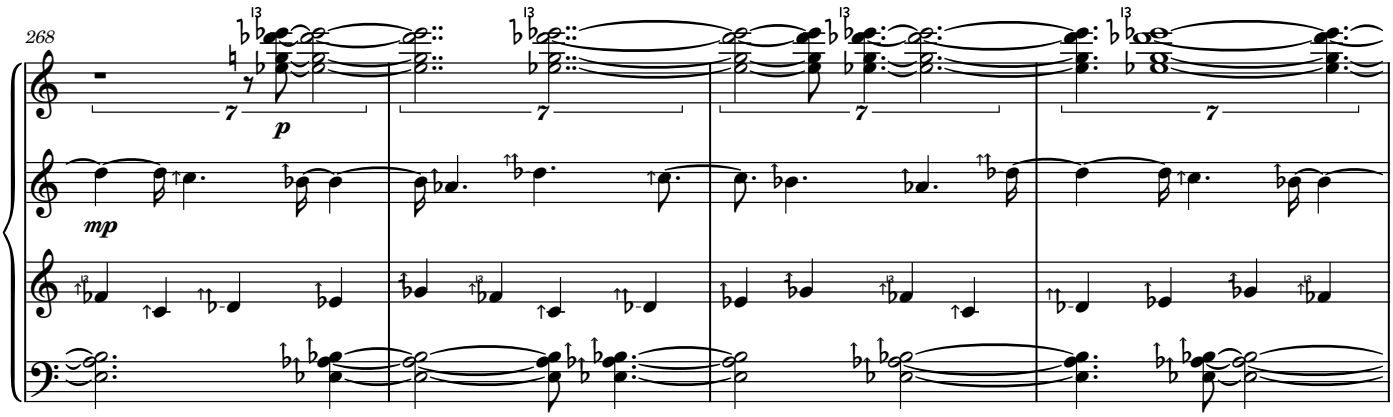

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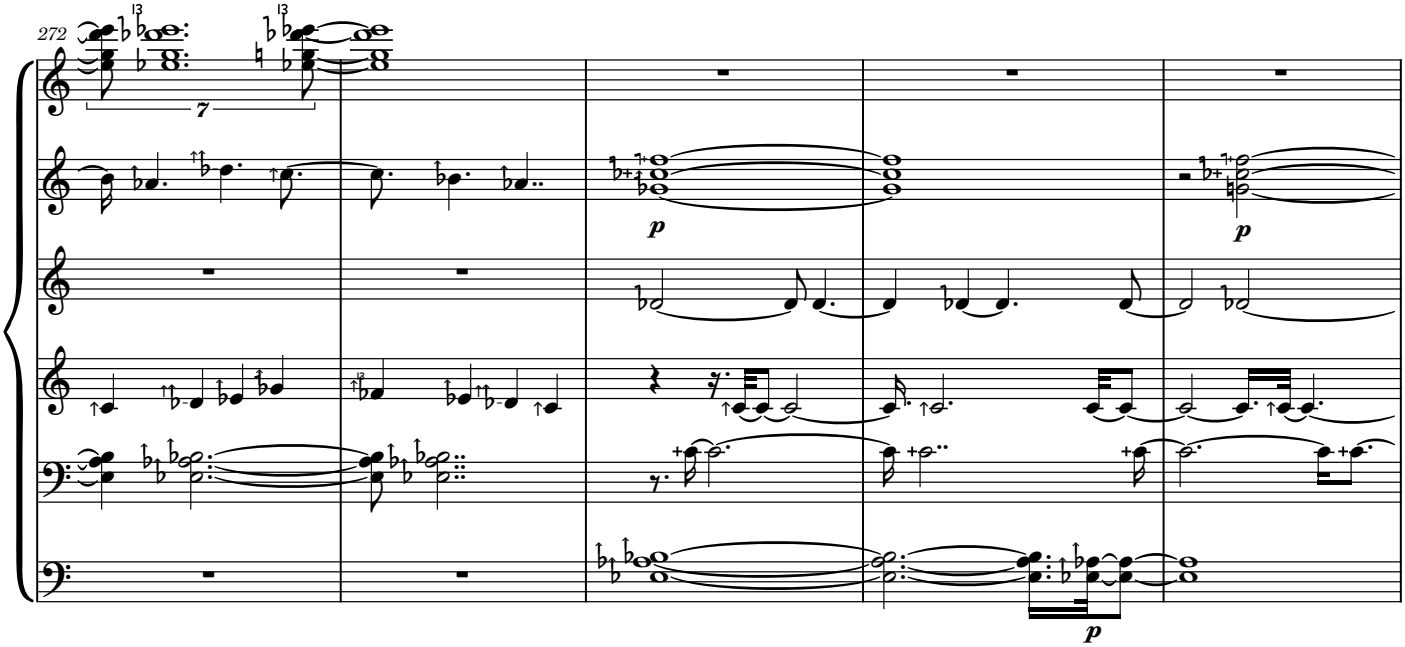

248
mf
mf
mf
mf
mp
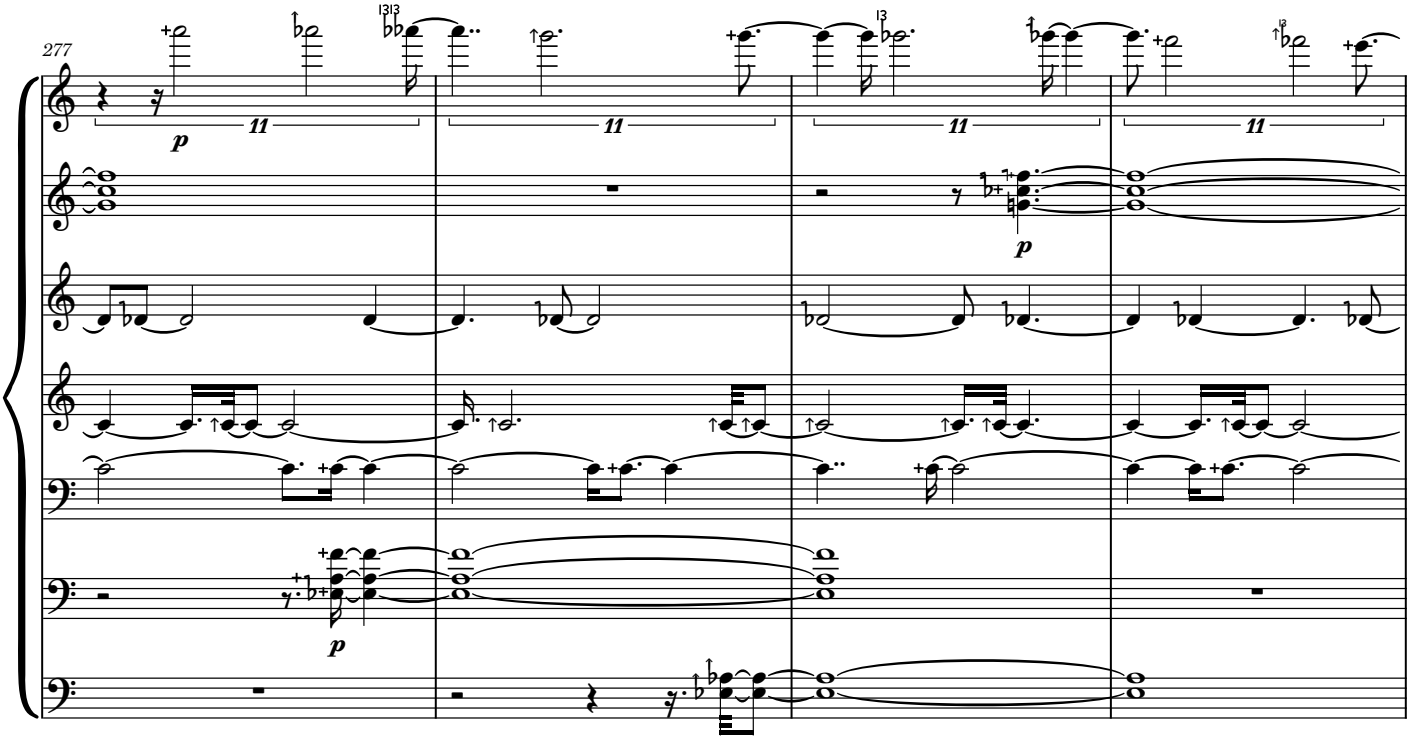

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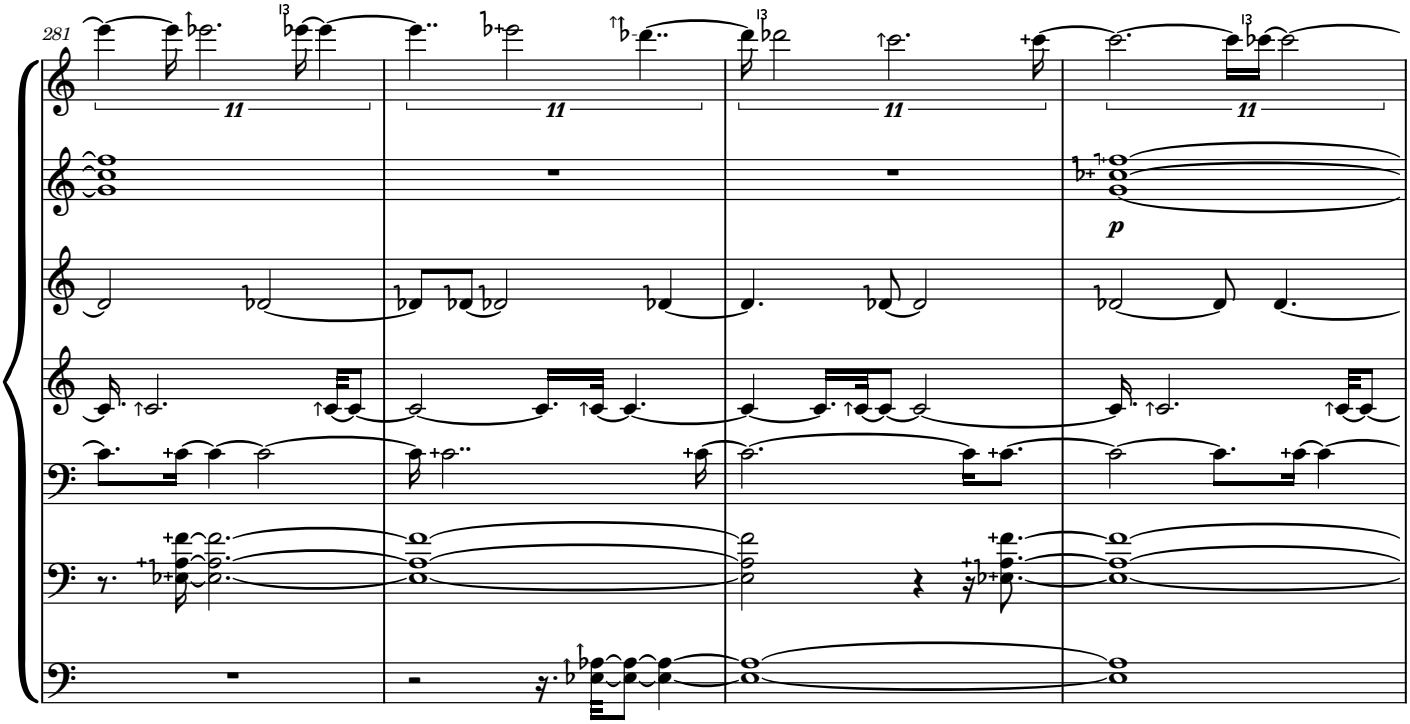

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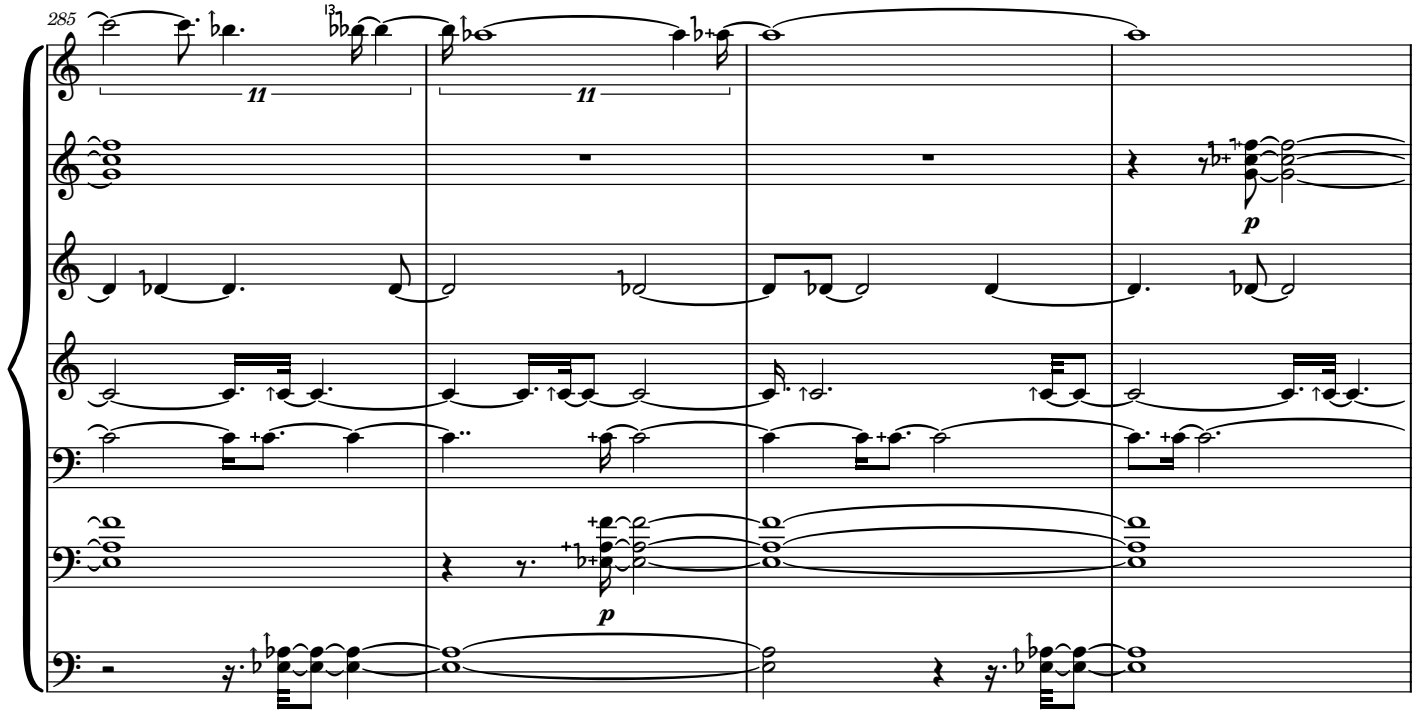

257
mf
mf
mp
260
mp
264
mp
mp
p

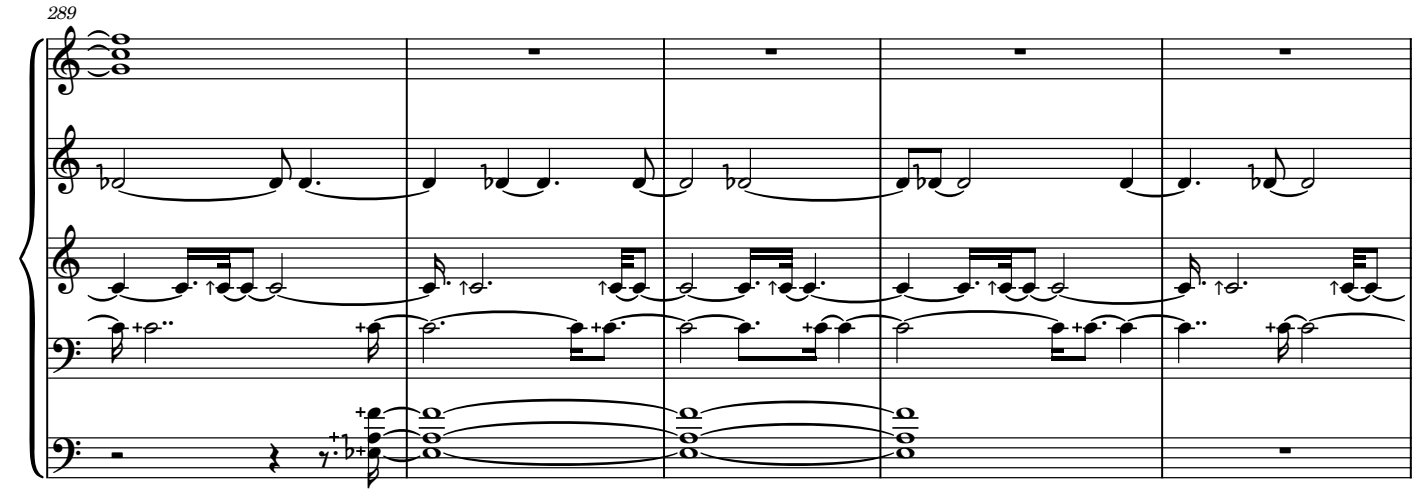

268
7
p
mp
7
7
7

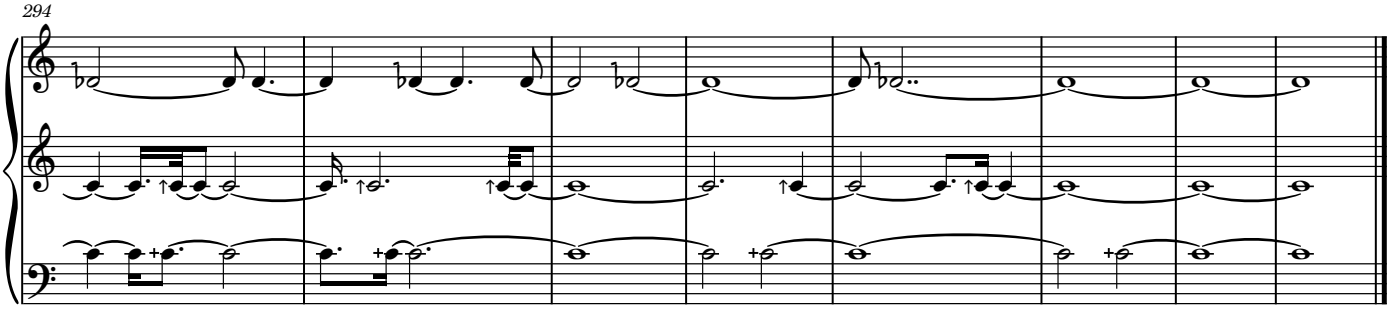

272
7
p
p
p


277
p
11
p
p


281
11
p


285
11
11
p
p
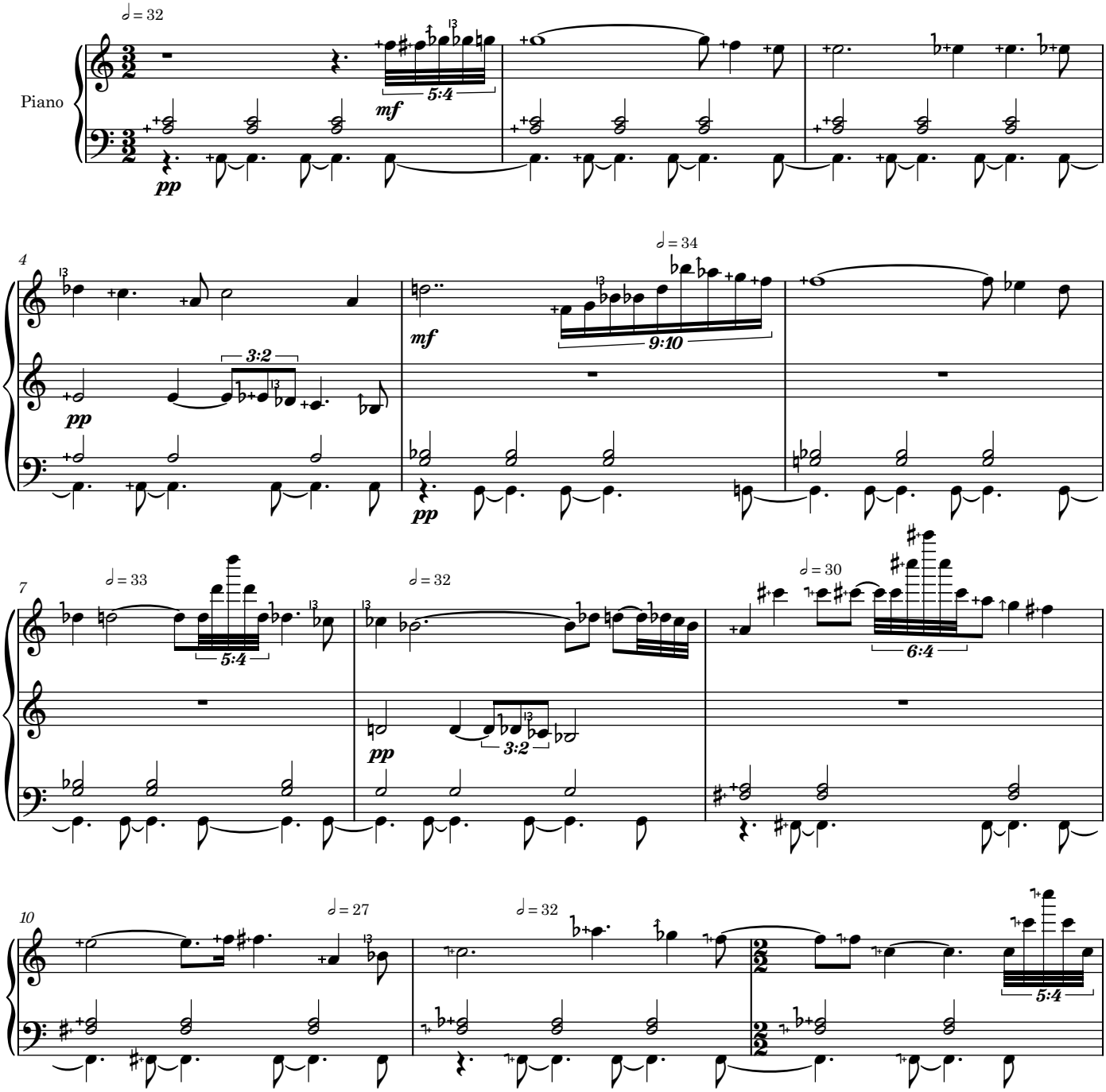

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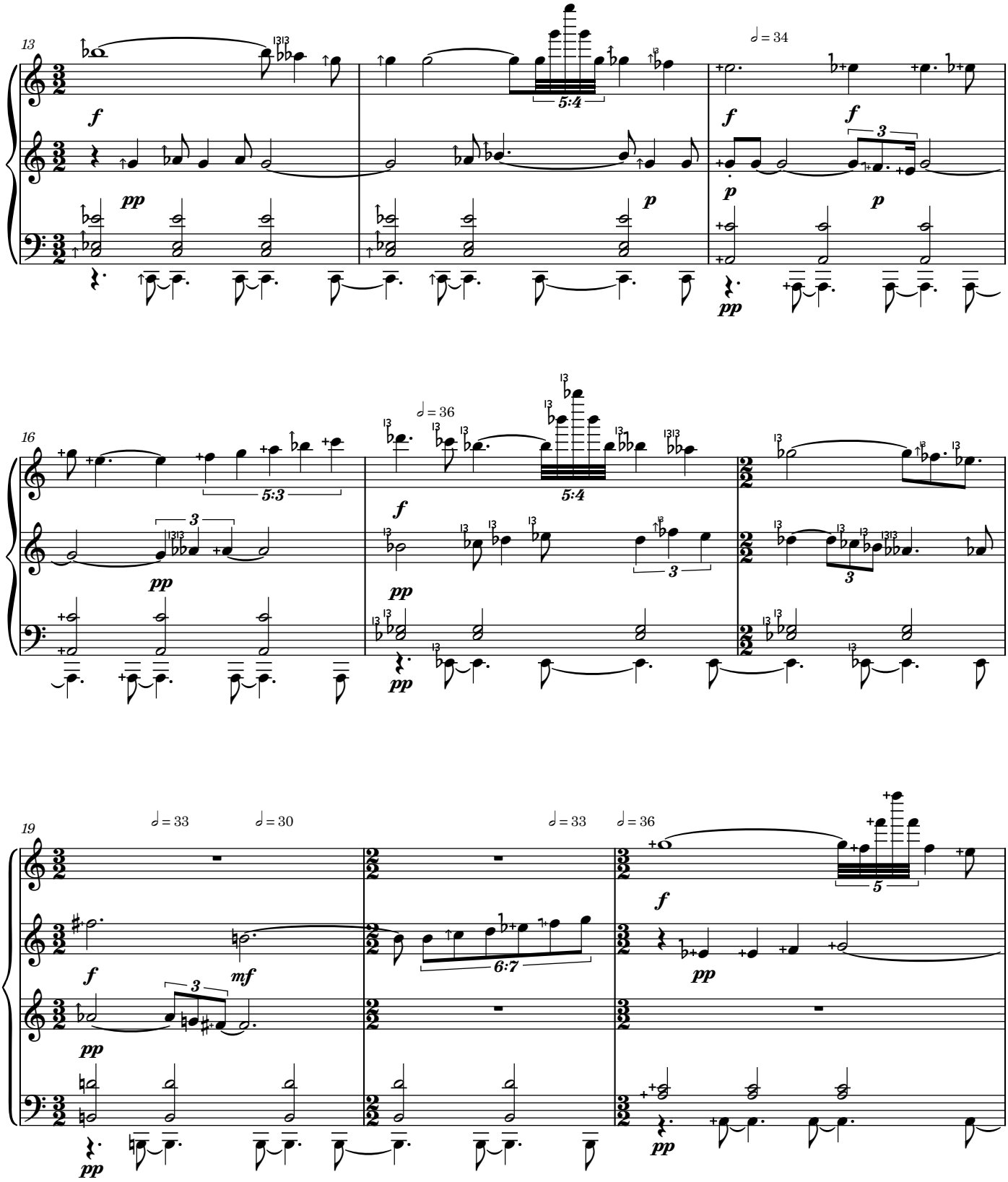


July 15 - August 18, 2015
Germantown, NY
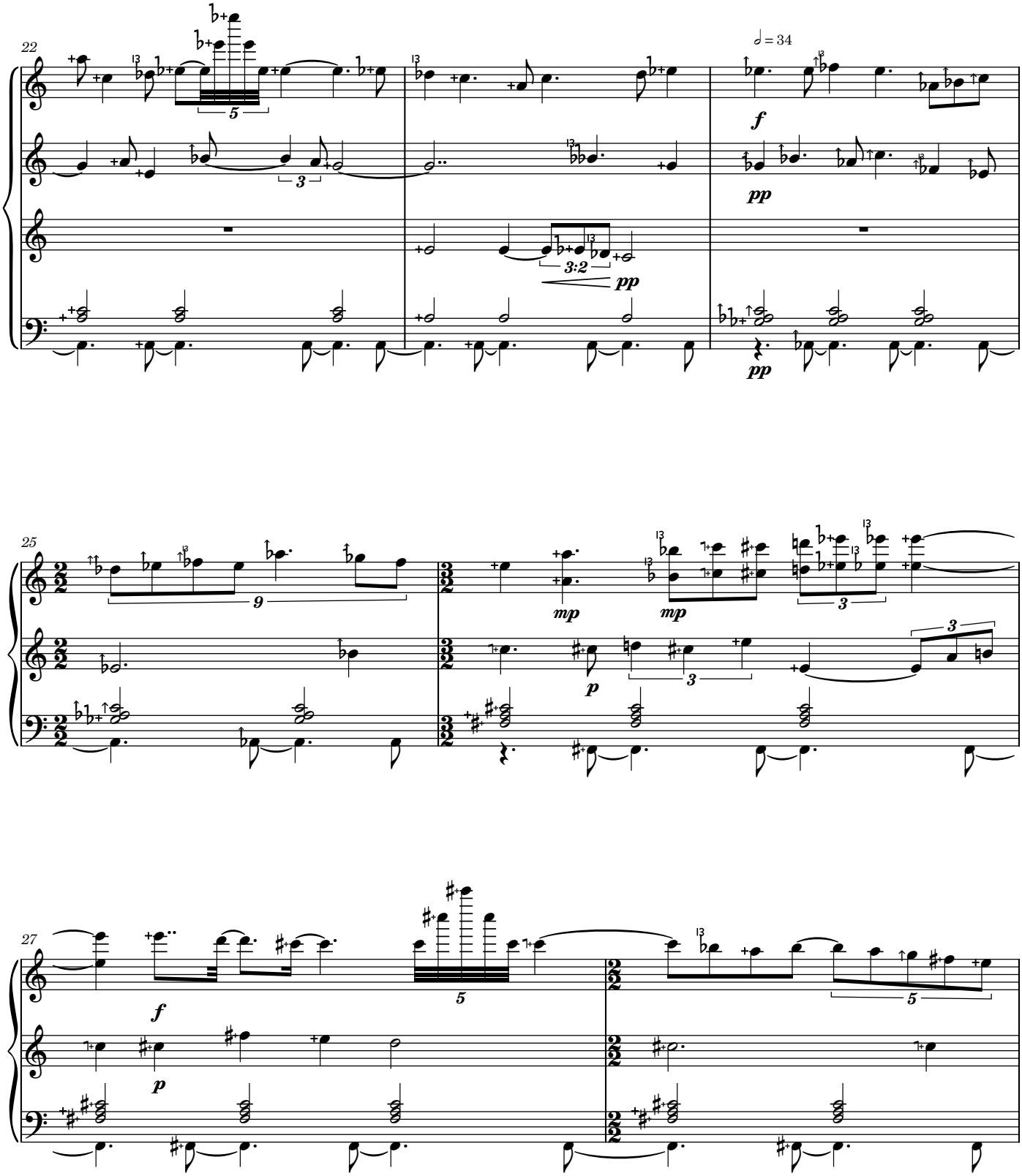
Pavane for a Dead Planet
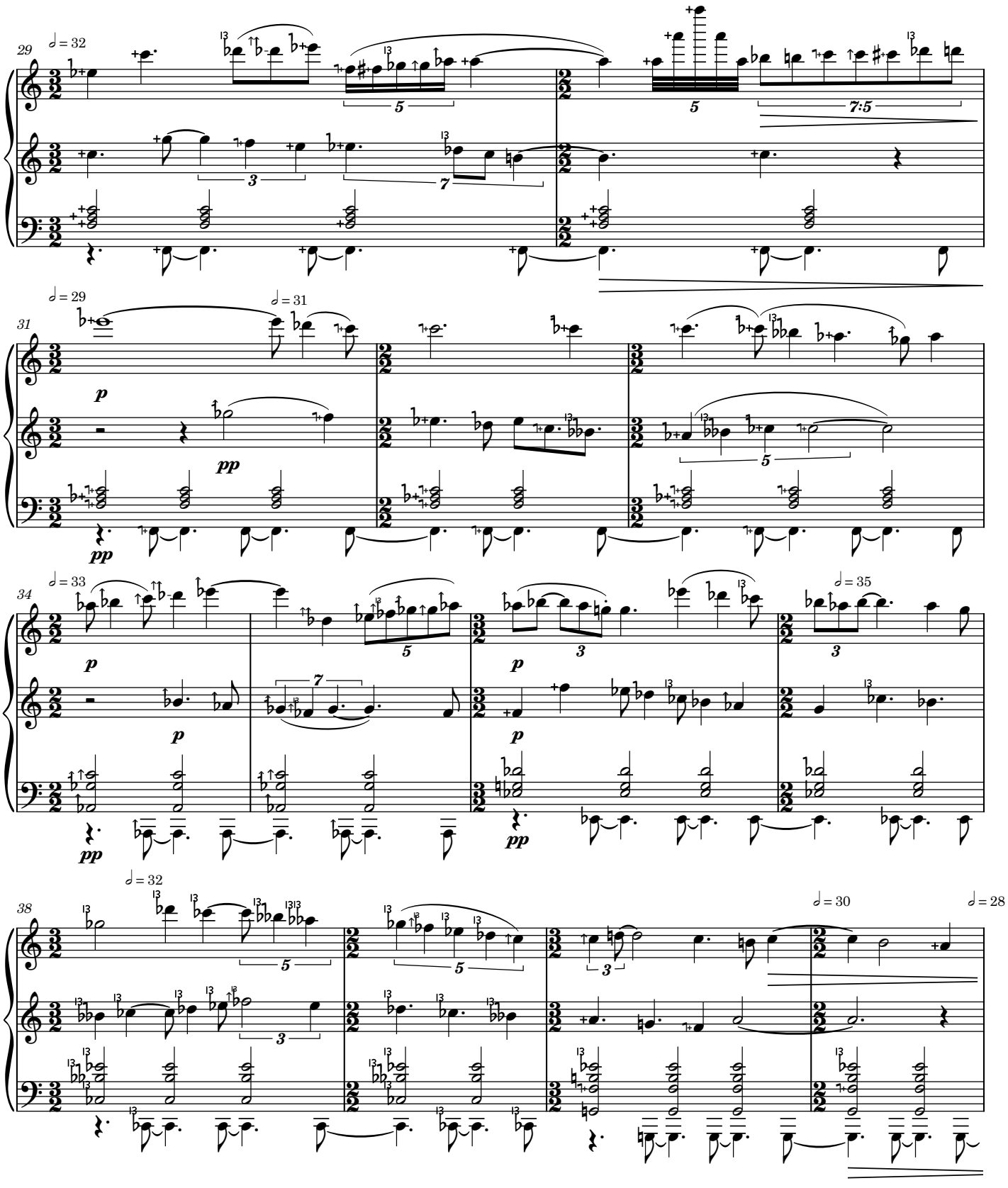
Kylr Gann
2016
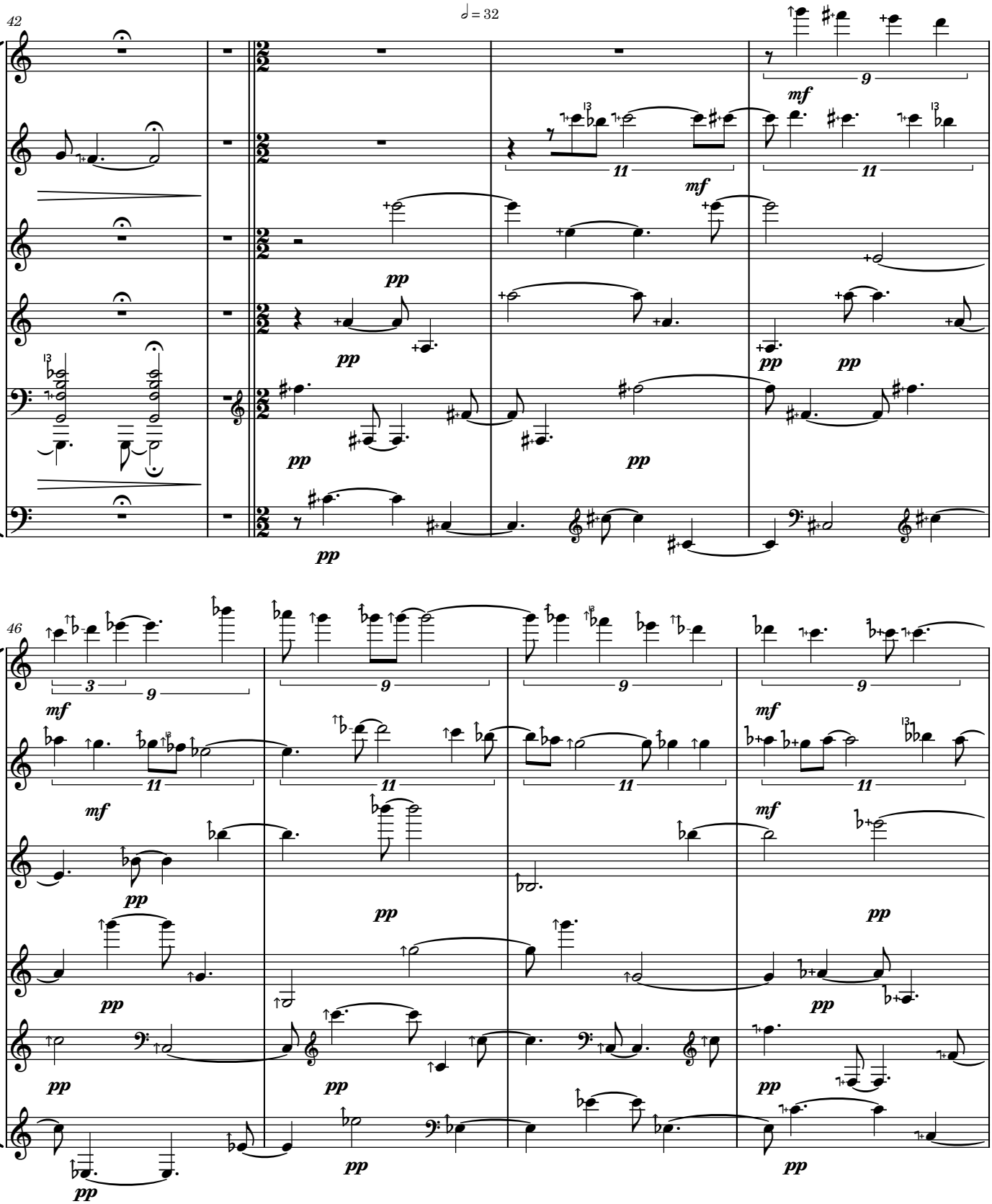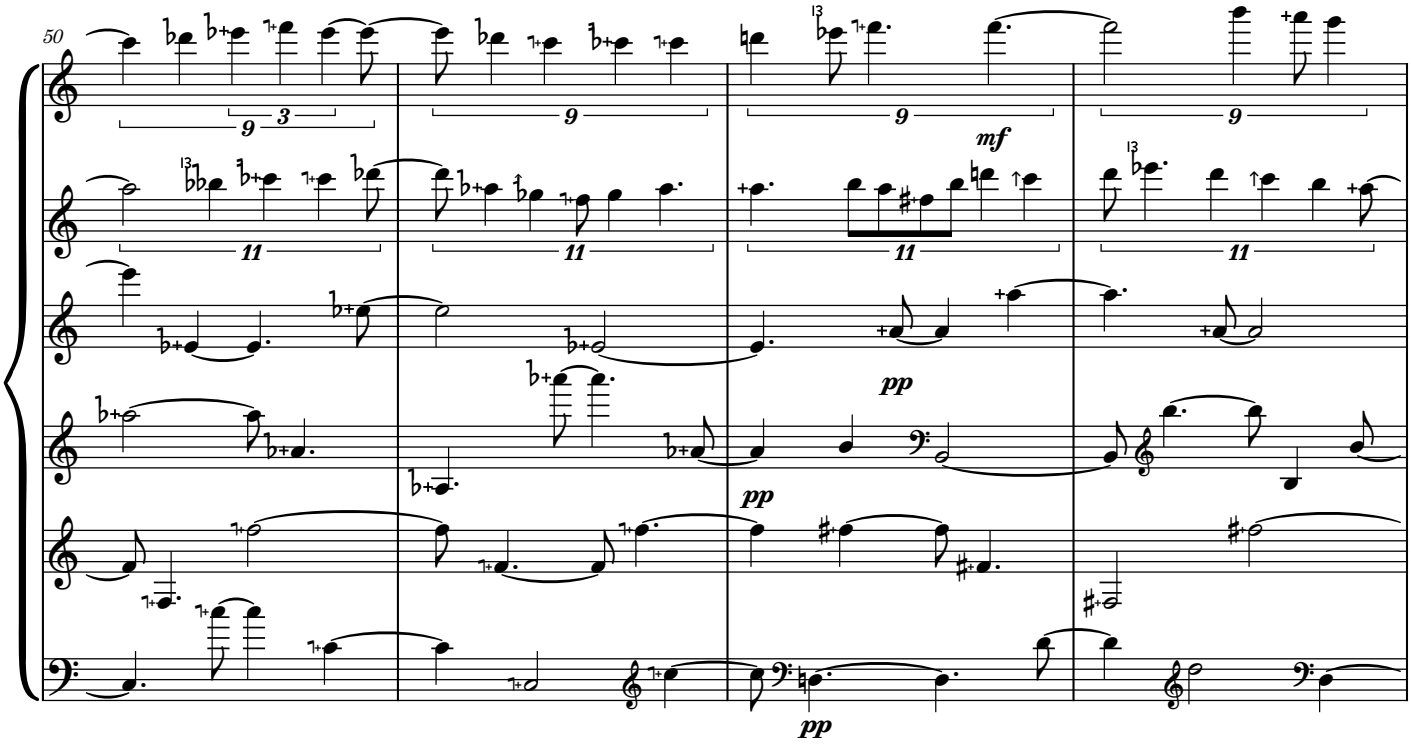


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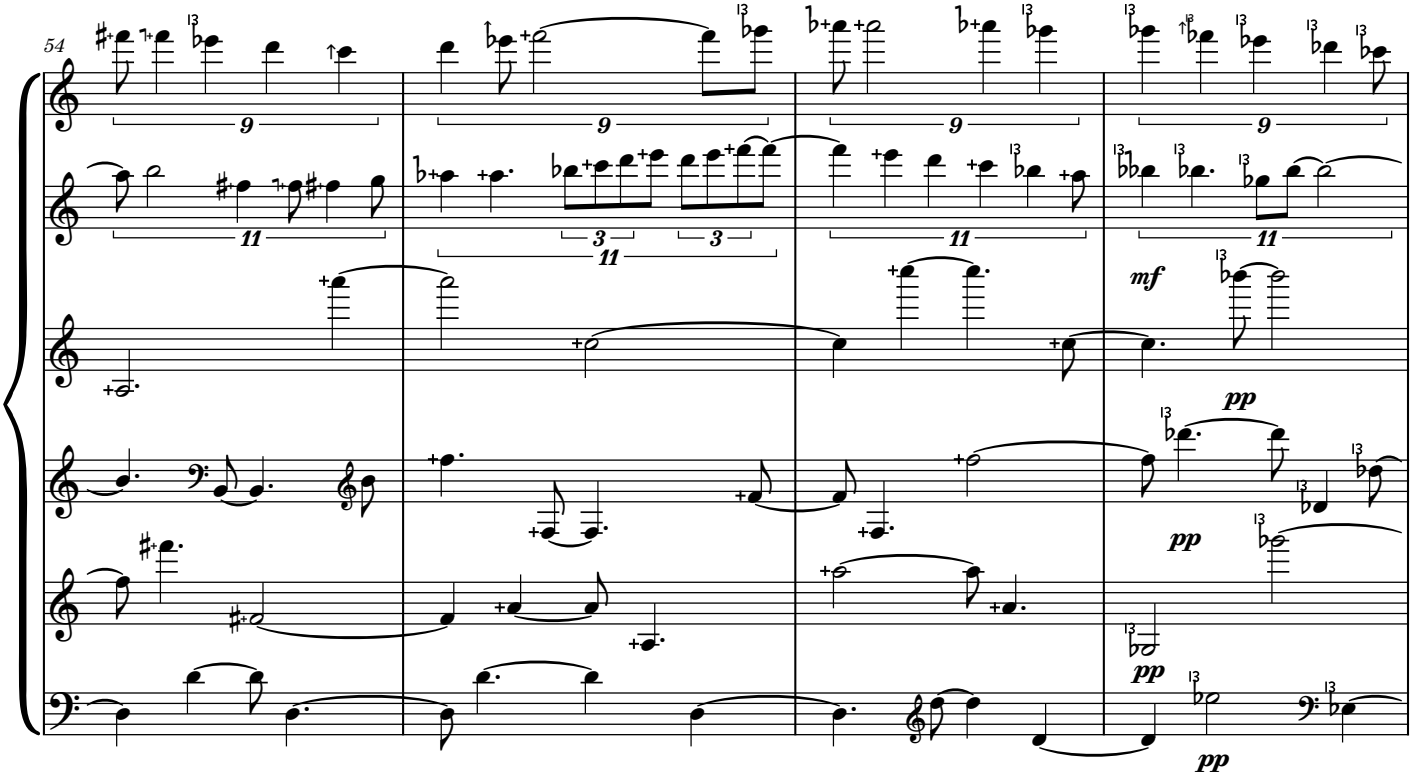

13
16
19
𝅗𝅥 = 34
𝅗𝅥 = 36
𝅗𝅥 = 33
𝅗𝅥 = 30
5:4
5:3
6:7
f
mf
pp
p
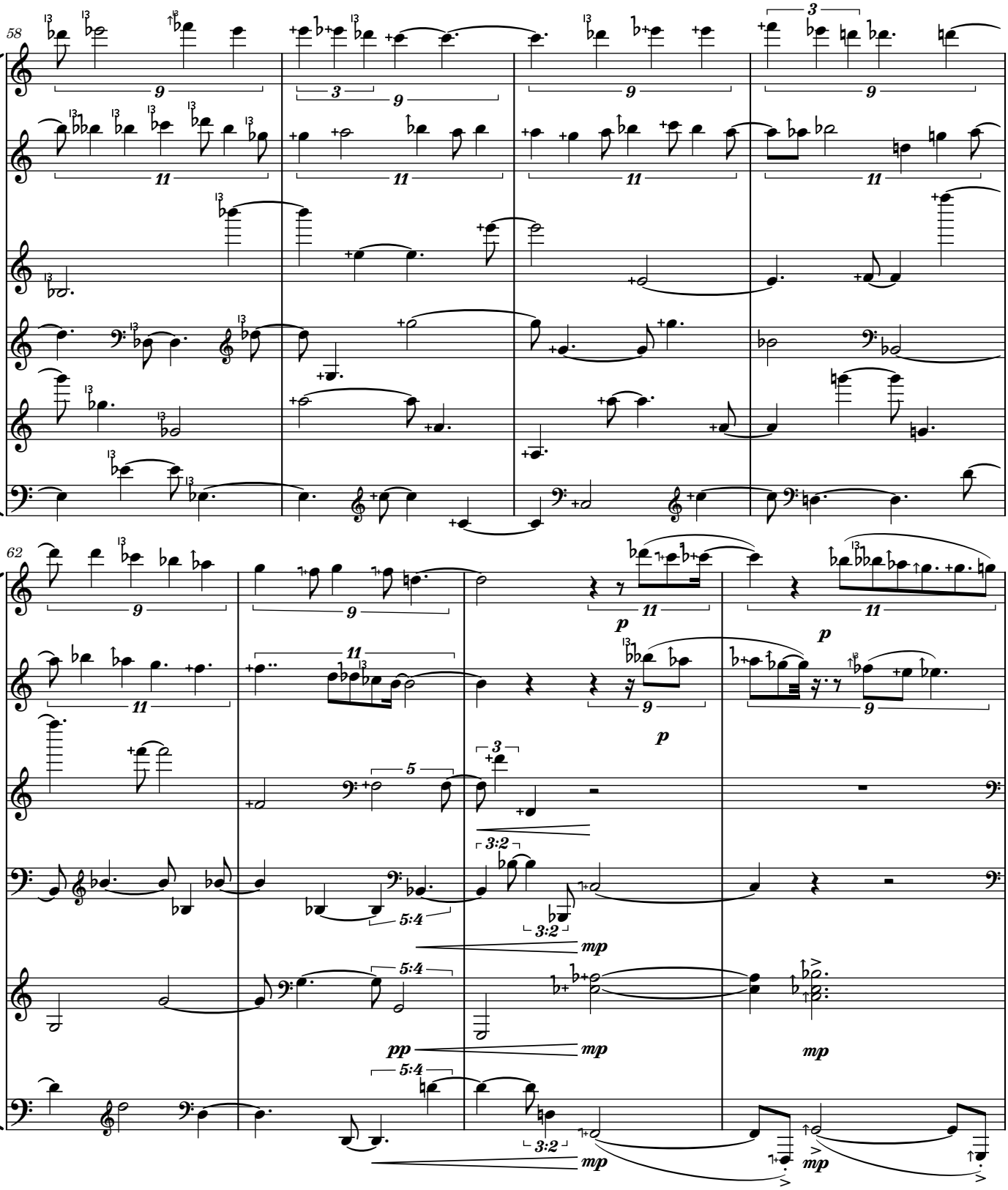

22
♩ = 34
f
pp
3:2
pp
pp
25
9
mp
mp
3
p
3
3
27
f
5
p
5
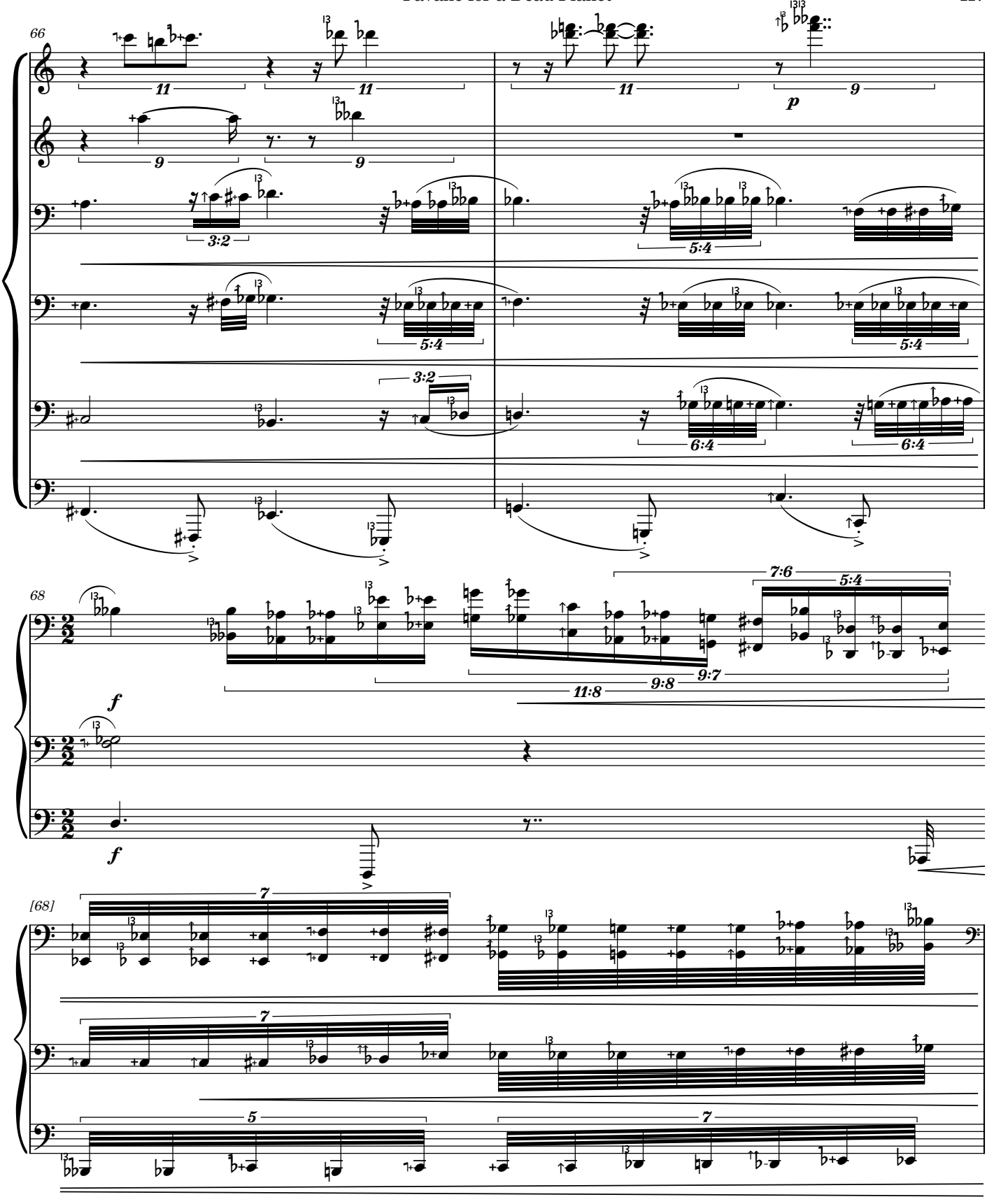

29
𝅗𝅥 = 32
5
3
7
5
7:5
31
𝅗𝅥 = 29
𝅗𝅥 = 31
p
pp
pp
5
34
𝅗𝅥 = 33
p
pp
7
5
p
pp
3
𝅗𝅥 = 35
3
38
𝅗𝅥 = 32
5
3
5
3
𝅗𝅥 = 30
𝅗𝅥 = 28
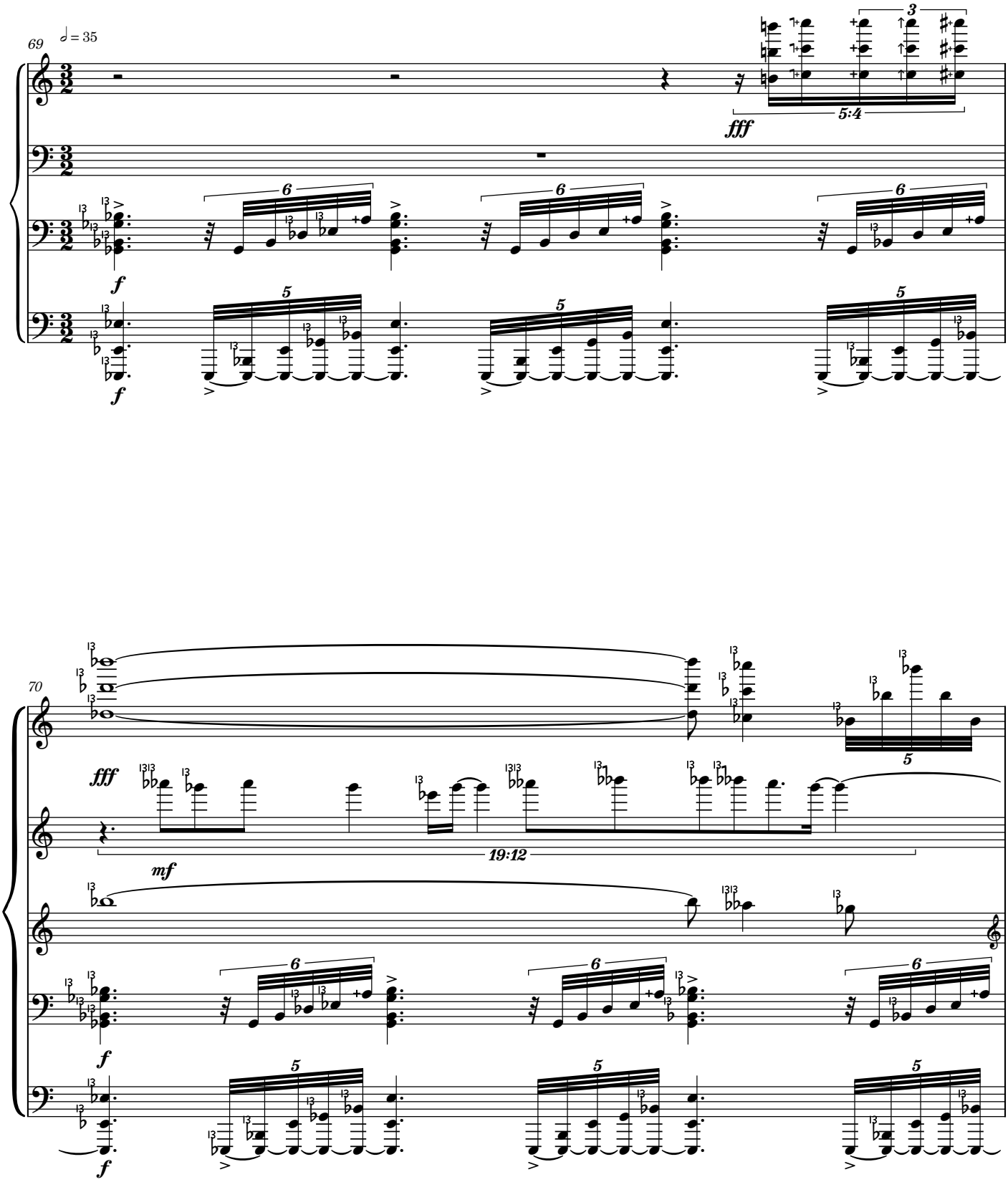

42
𝅗𝅥 = 32
mf
pp
46
mf
pp
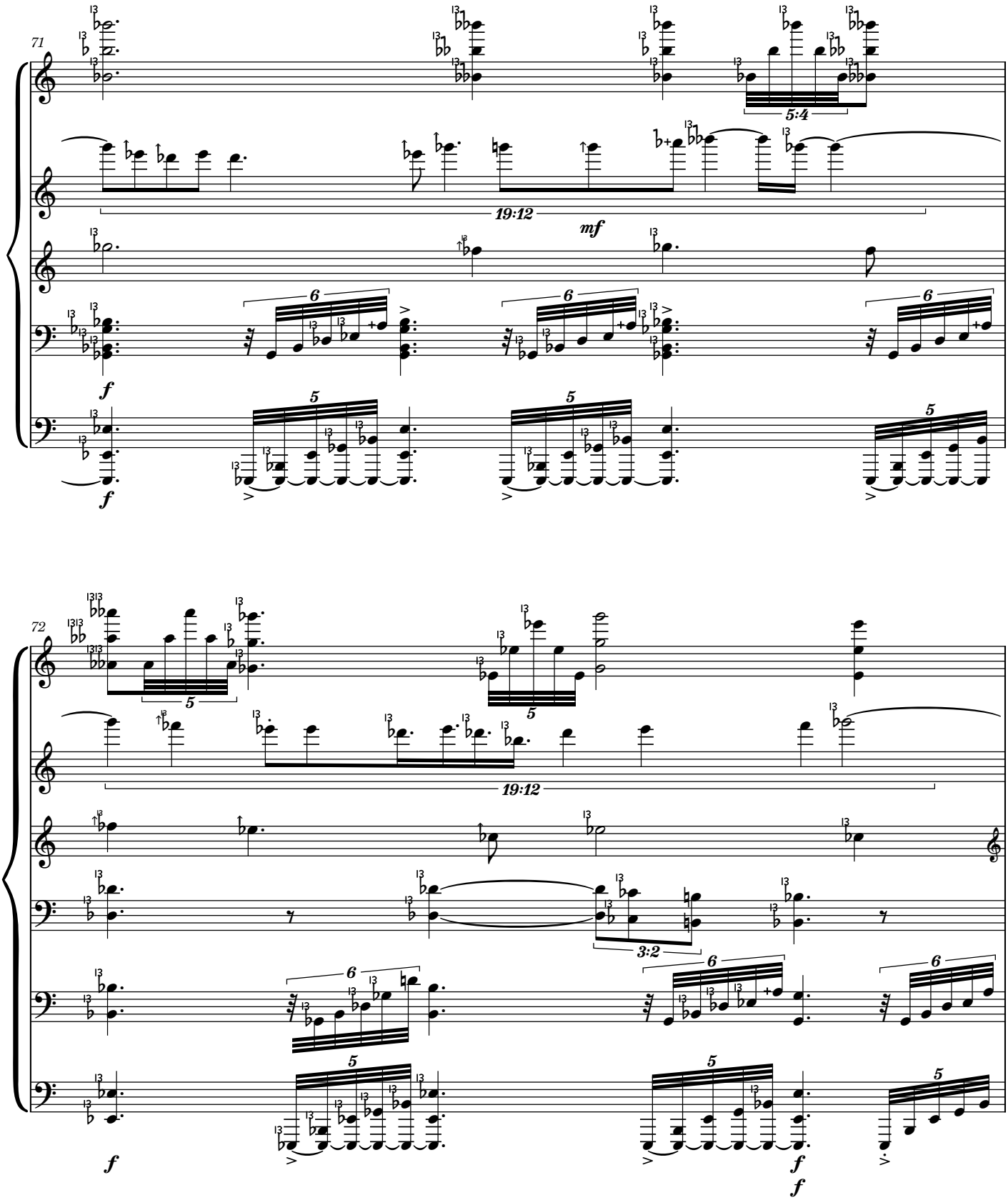

50
mf
pp
pp
pp

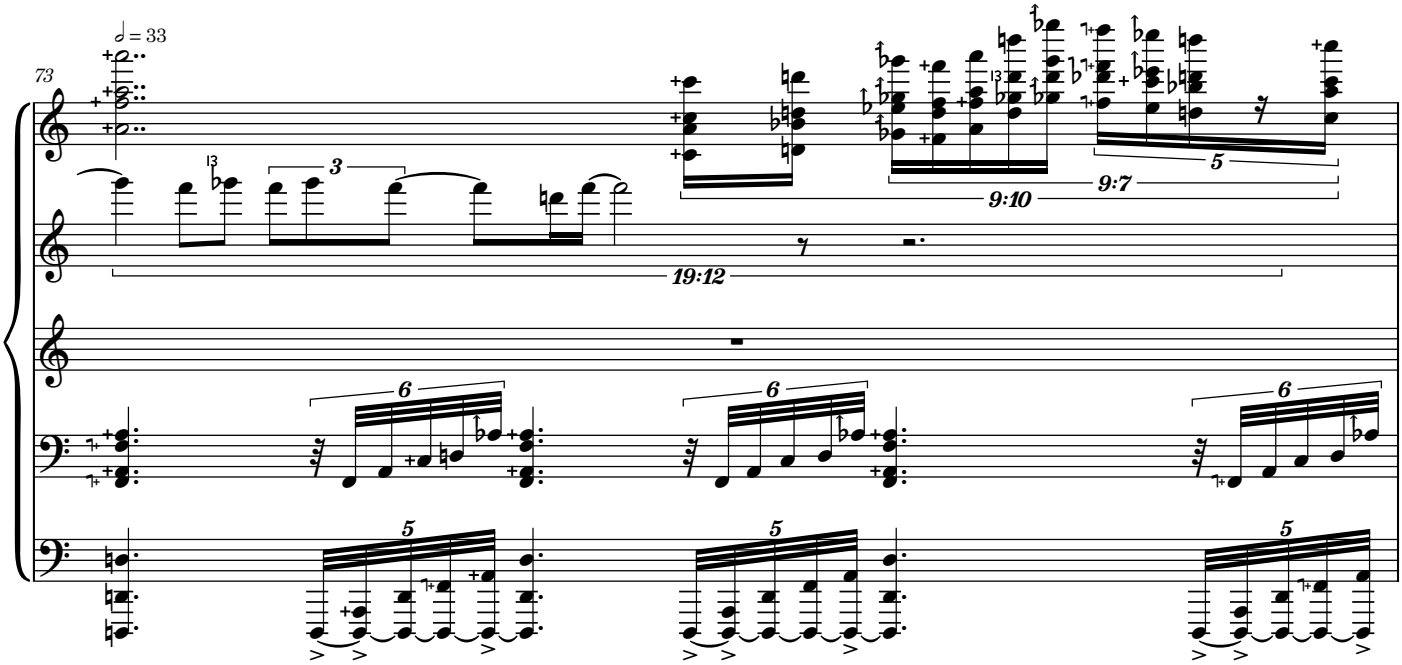

54
mf
pp
pp
pp
pp

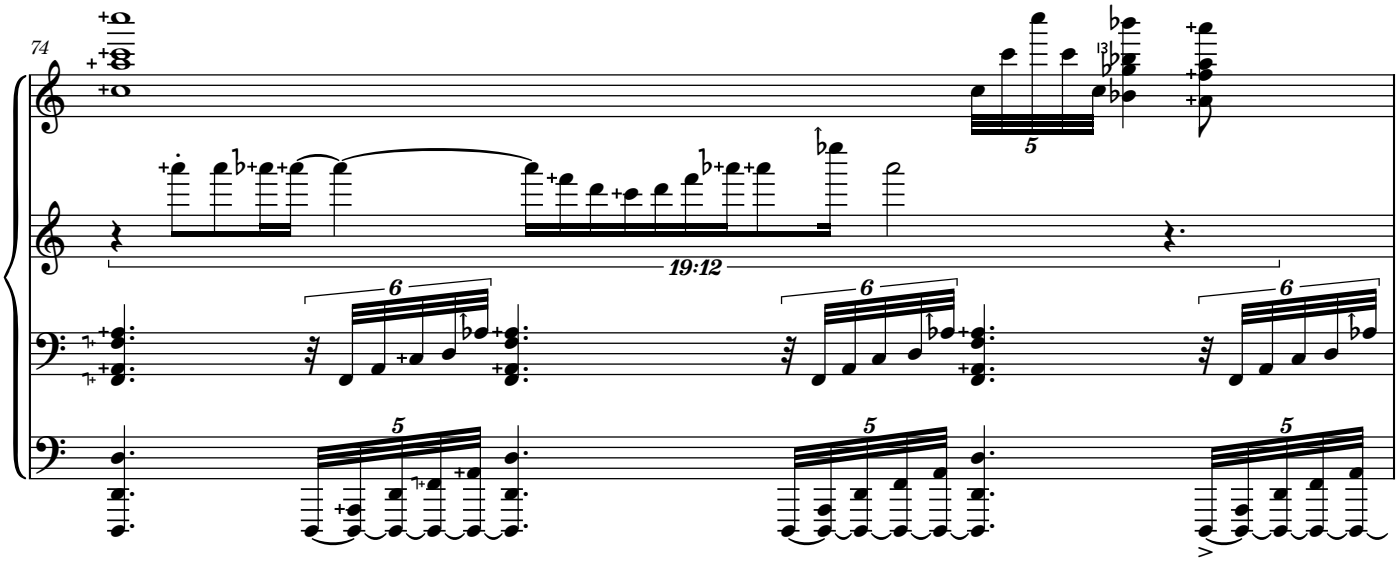

58
62
p
mp
pp

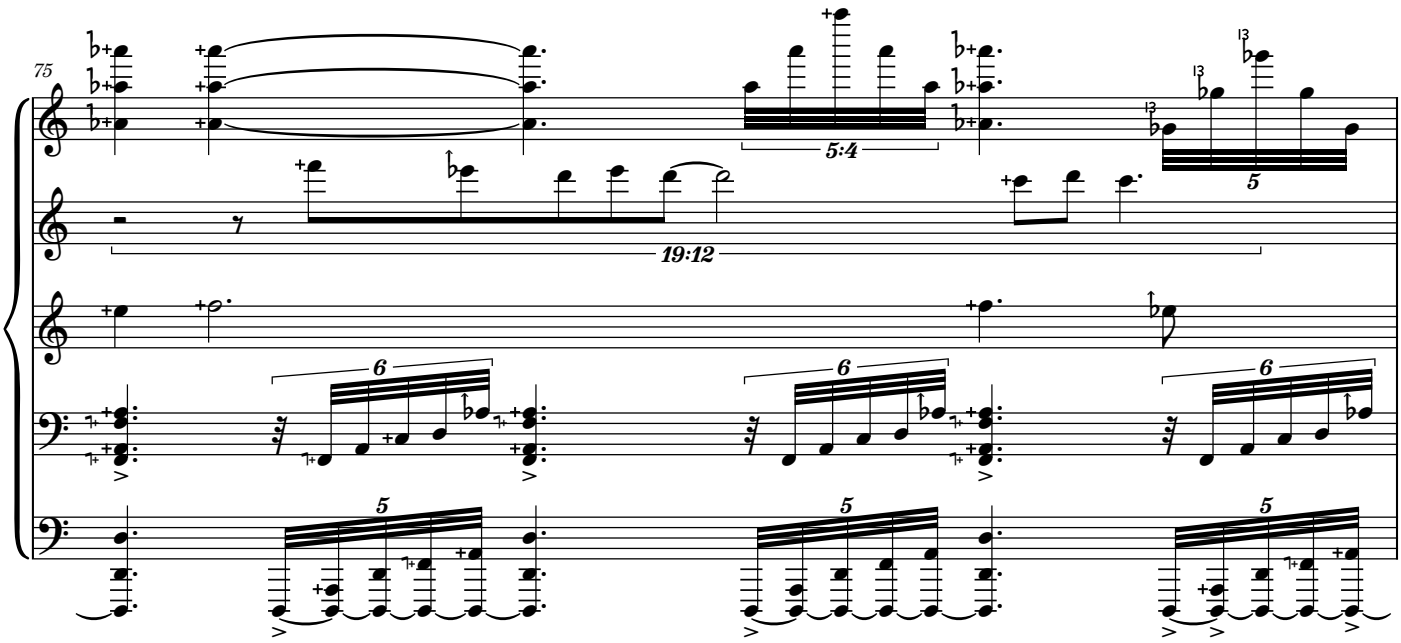

66
11
11
11
9
p
9
9
3:2
5:4
5:4
5:4
3:2
6:4
6:4
68
7:6
5:4
11:8
9:8
9:7
f
f
[68]
7
7
5
7

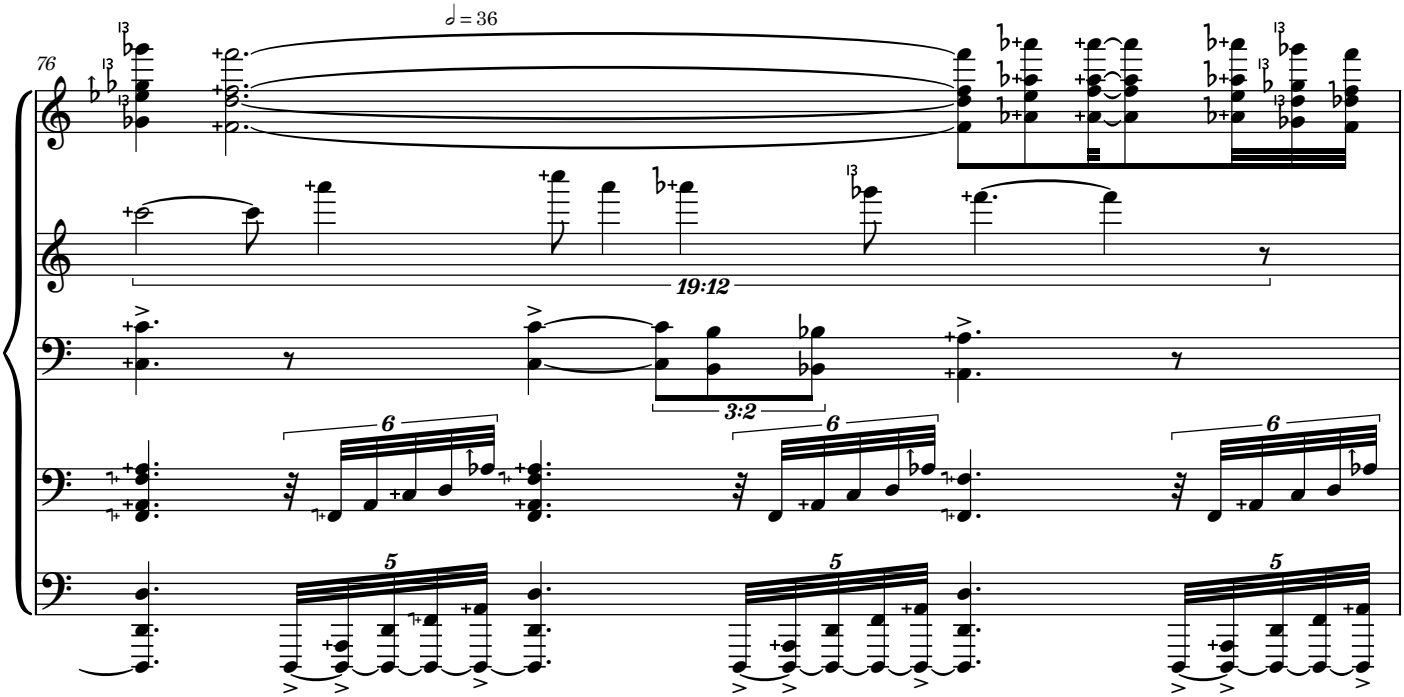

69
♩ = 35
fff
5:4
f
70
fff
mf
19:12

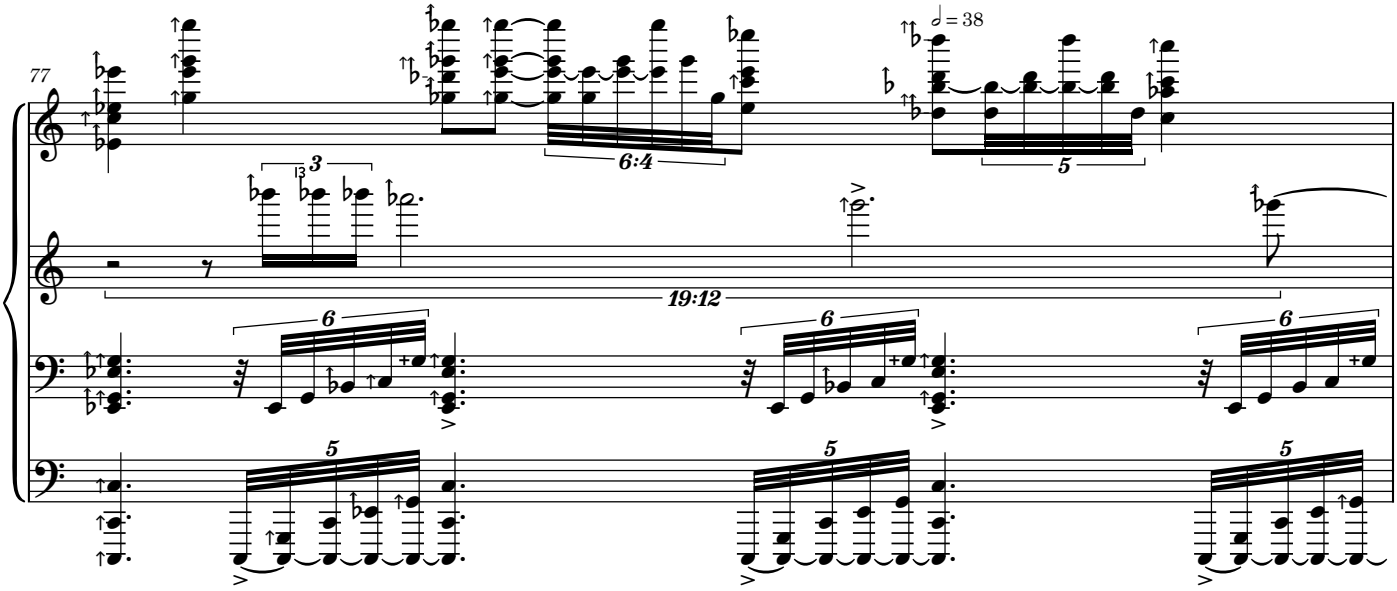

71
5:4
19:12
mf
f
f
72
19:12
3:2
f
f
f

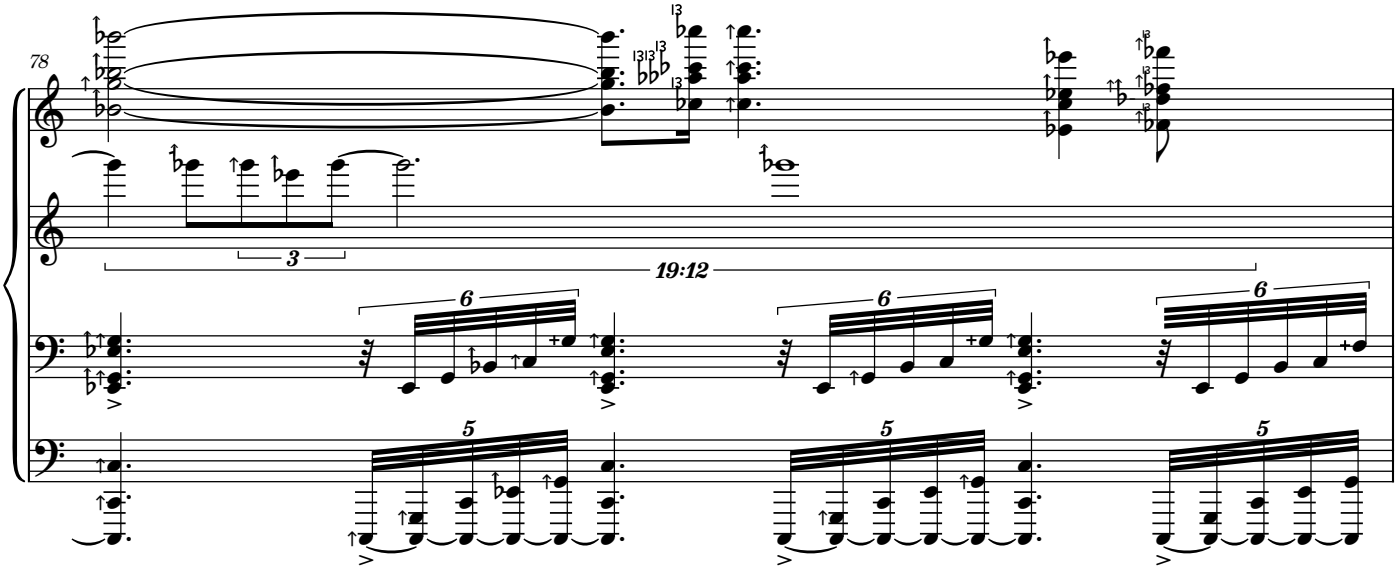

73
𝅗𝅥 = 33
3
9:10
9:7
5
19:12
6
6
6
5
5
5

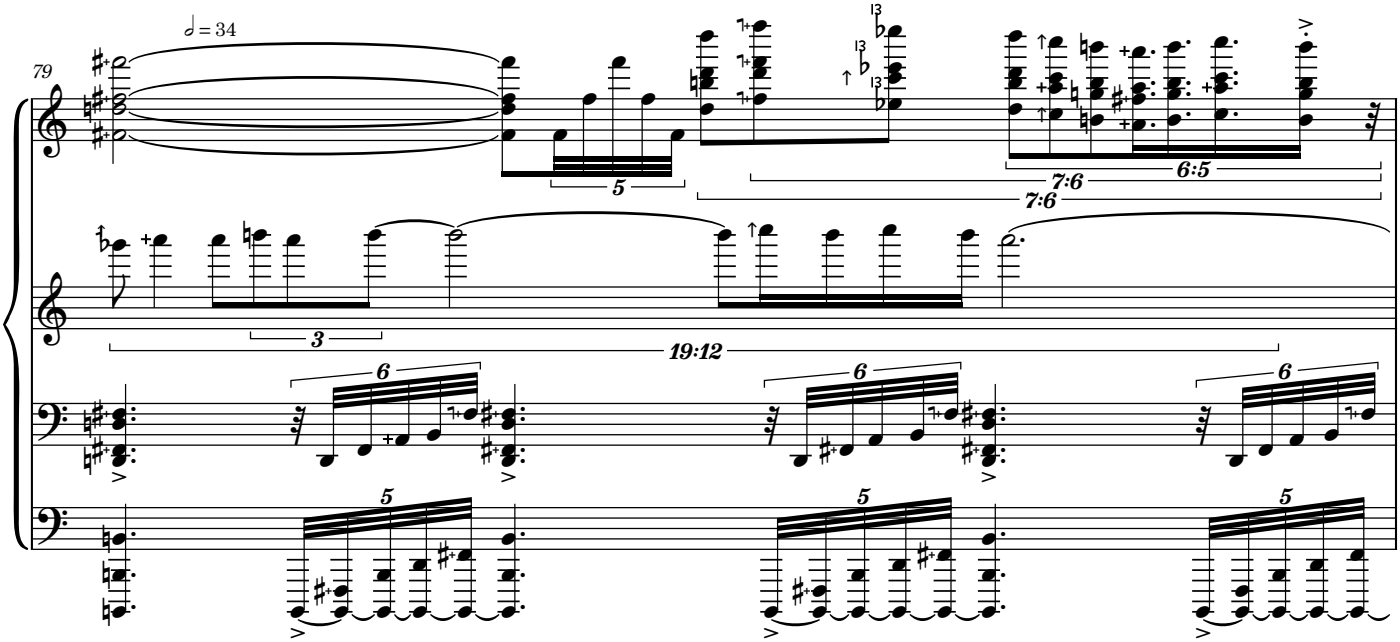

74
5
19:12
6
6
6
5
5
5

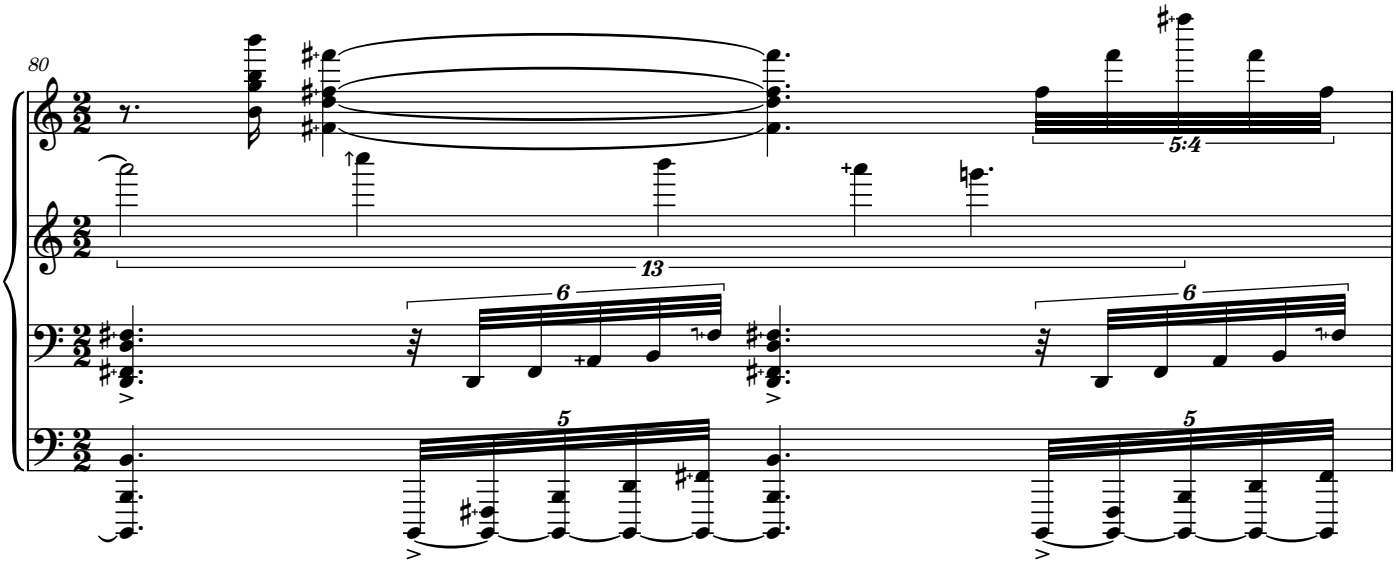

75
5:4
19:12
6
5

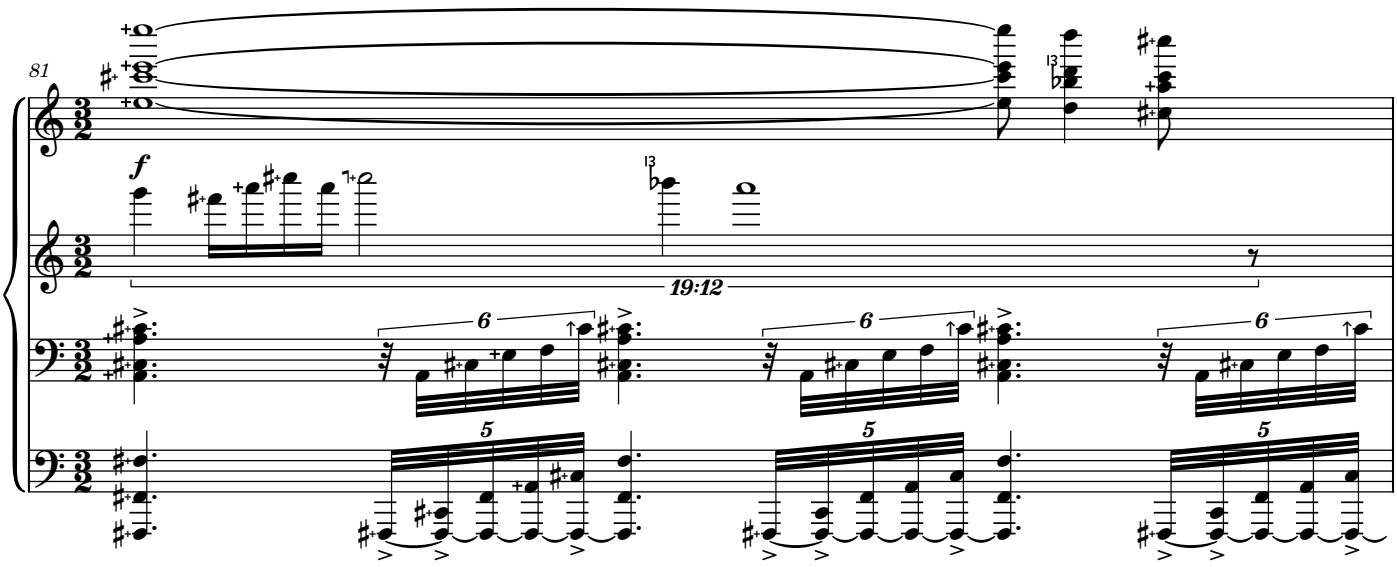

76
♩ = 36
19:12
3:2
6
5

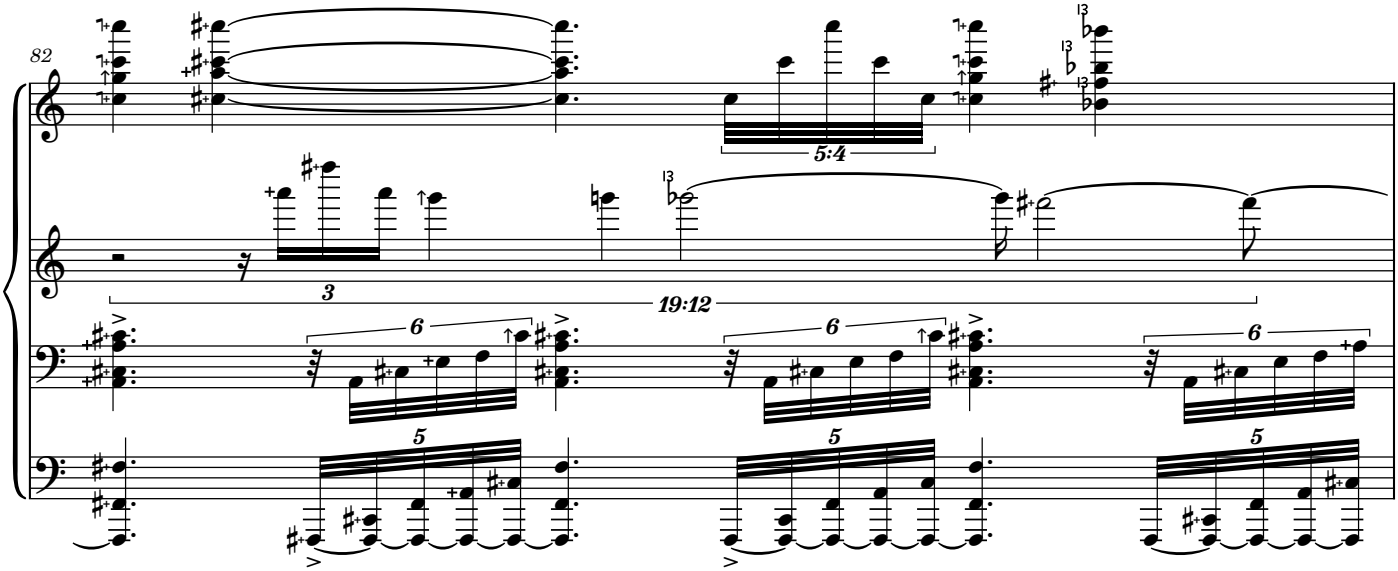

77
𝅗𝅥 = 38
3
6:4
5
19:12
6
5

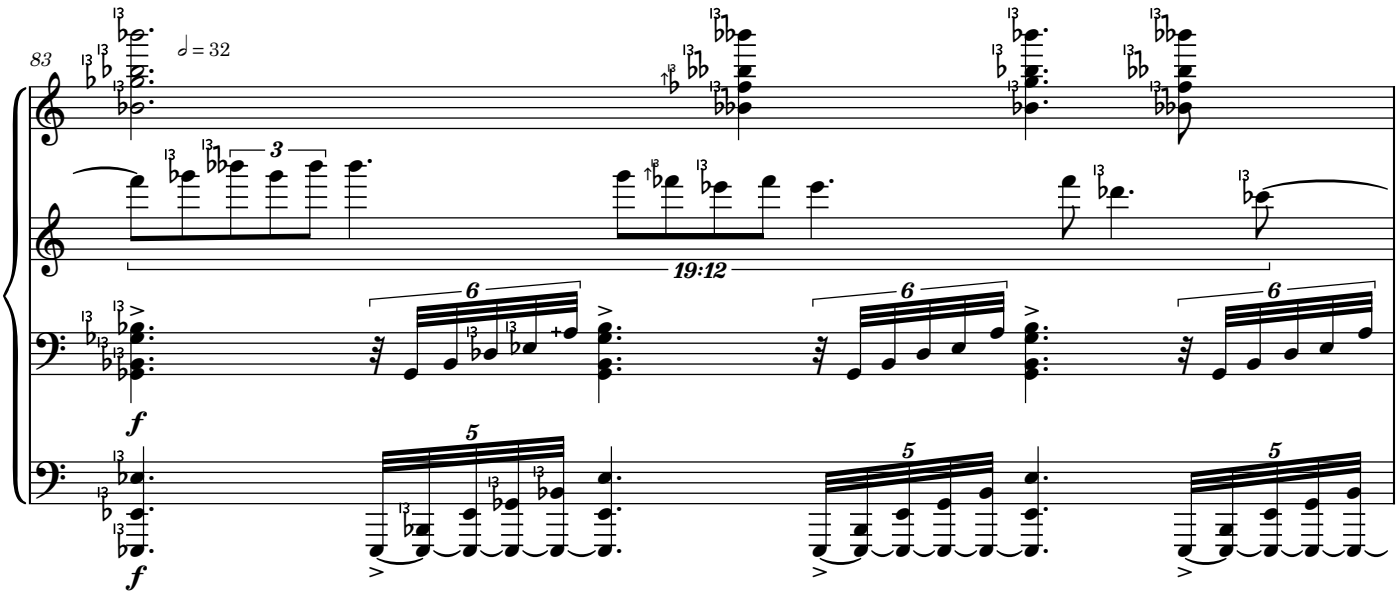

78
3
19:12
6
5

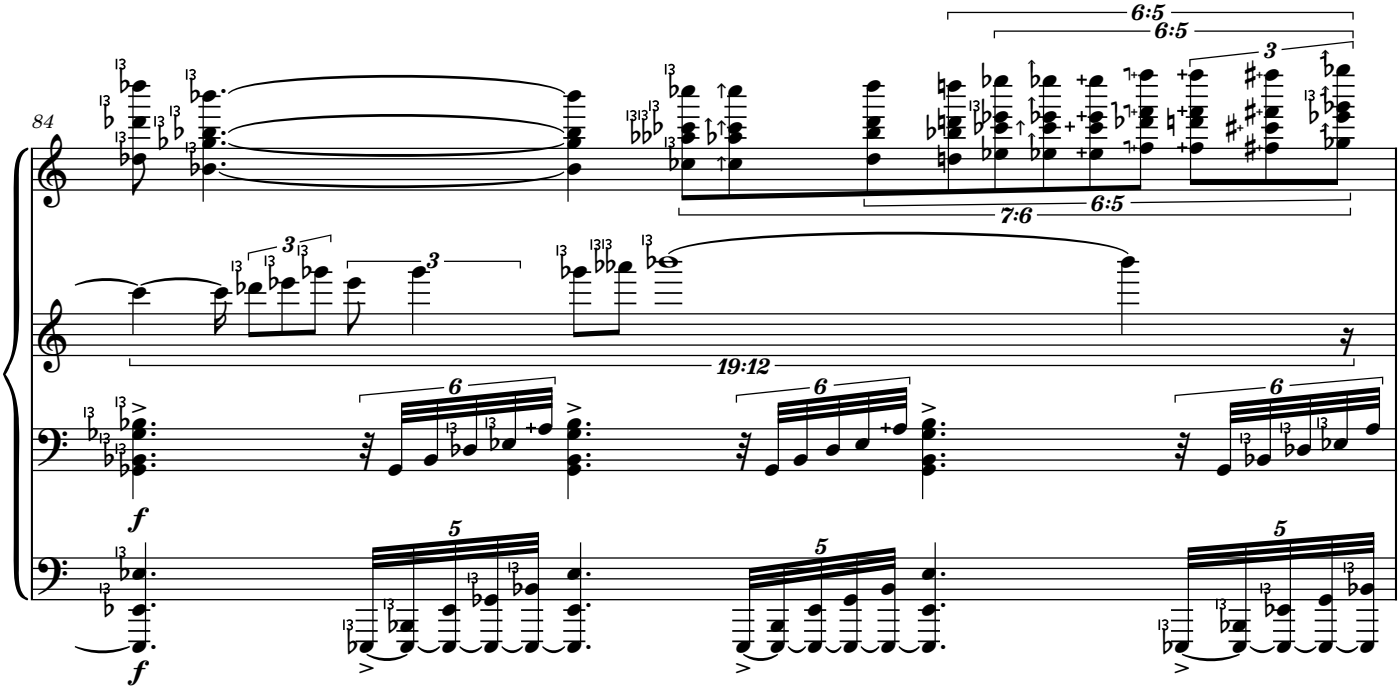

79
𝅗𝅥 = 34
5
7:6
6:5
7:6
3
19:12
6
6
6
5
5
5

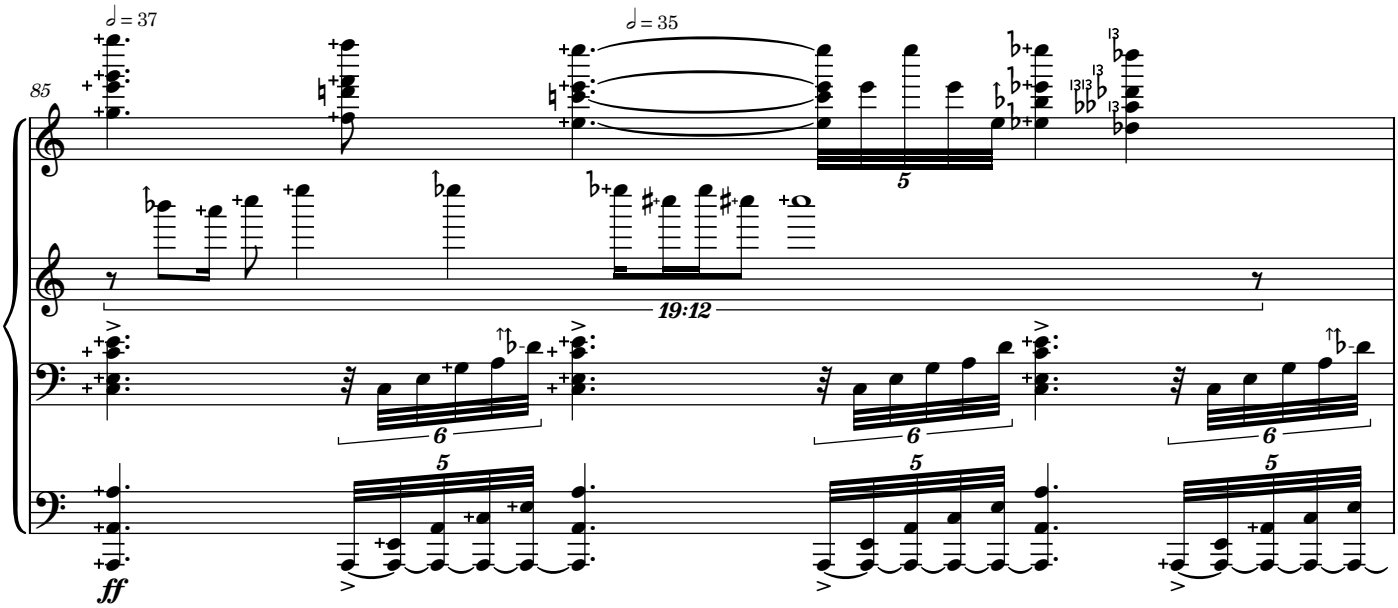

80
5:4
13
6
6
5
5

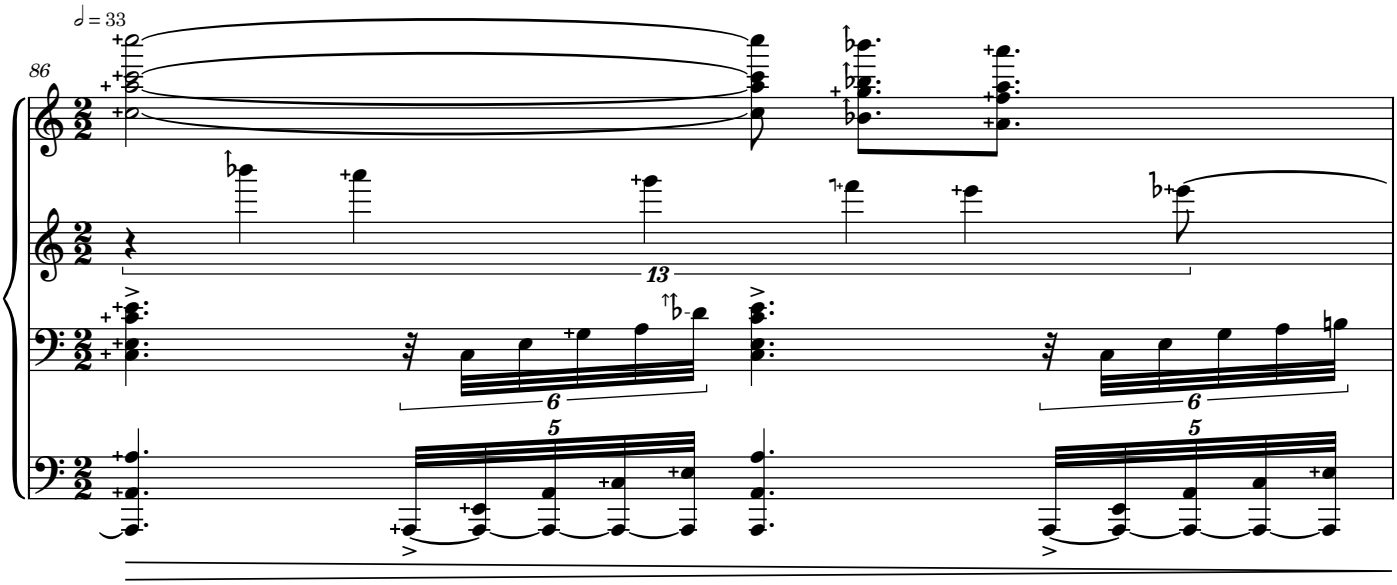

81
f
19:12
6
5
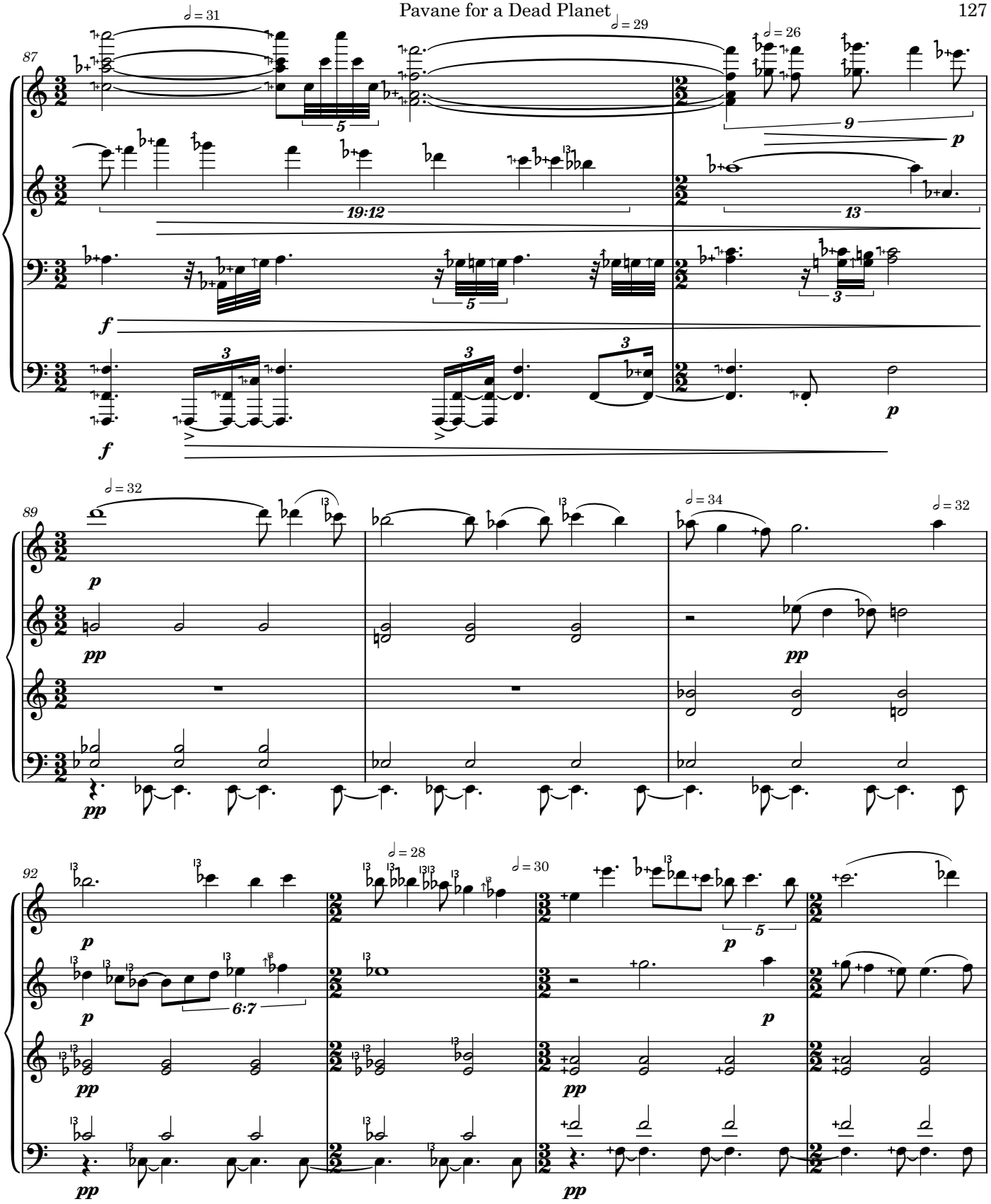

82
5:4
3
19:12
6
5
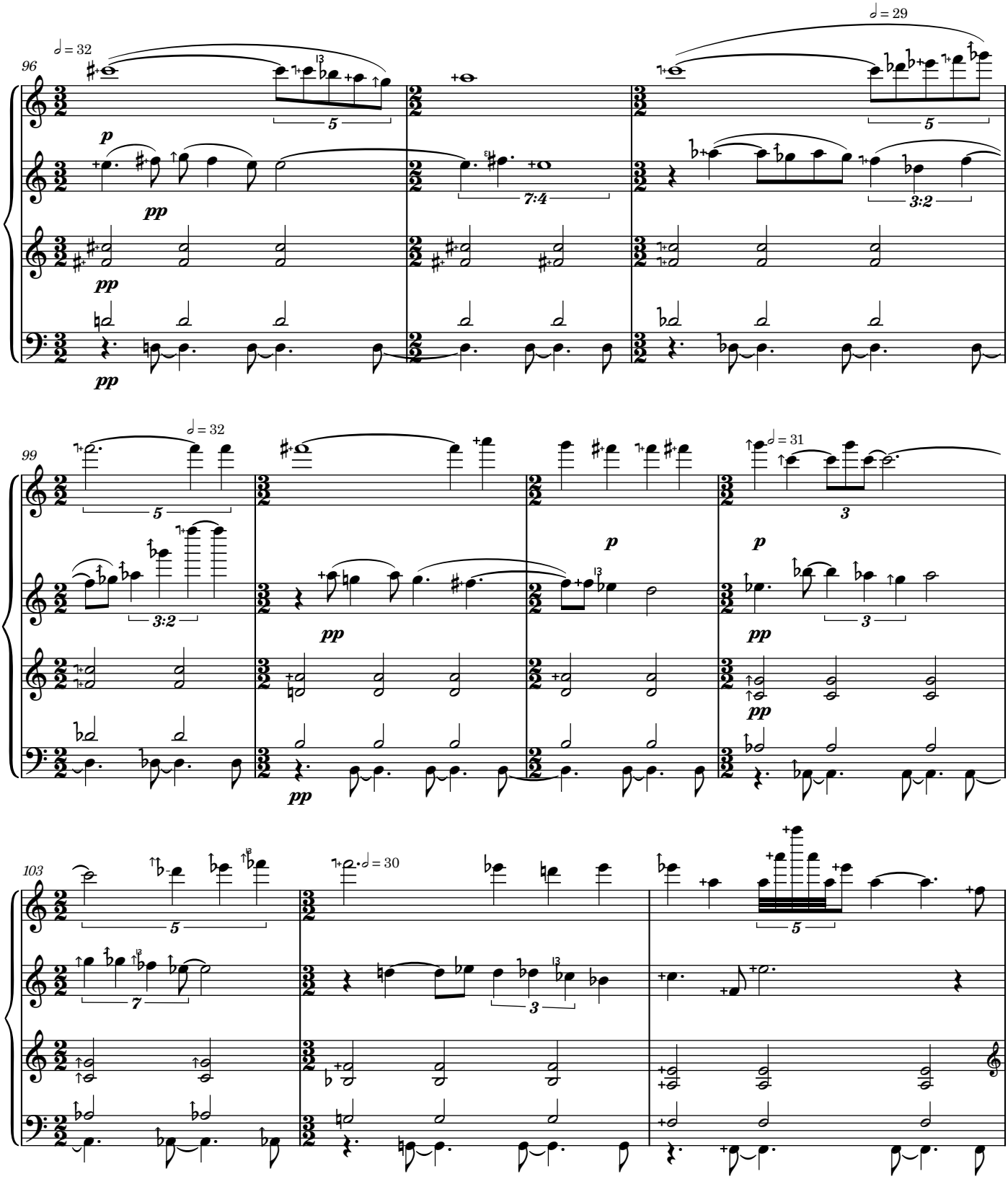

83
𝅗𝅥 = 32
3
19:12
6
6
6
f
5
5
5
f
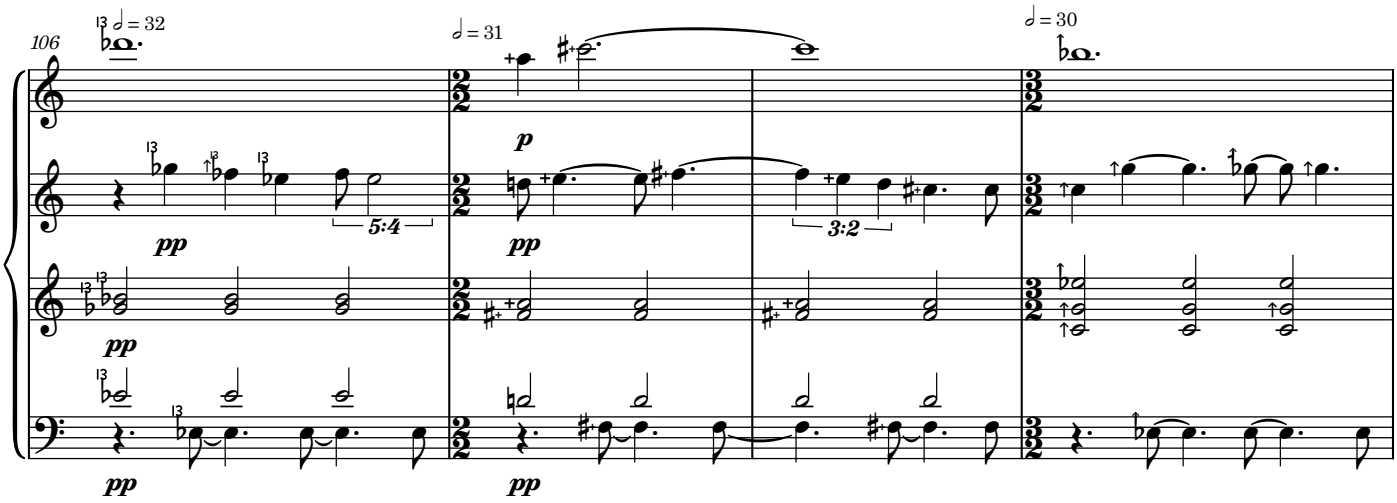

84
6:5
6:5
3
7:6
6:5
3
3
19:12
6
6
6
f
5
5
5
f

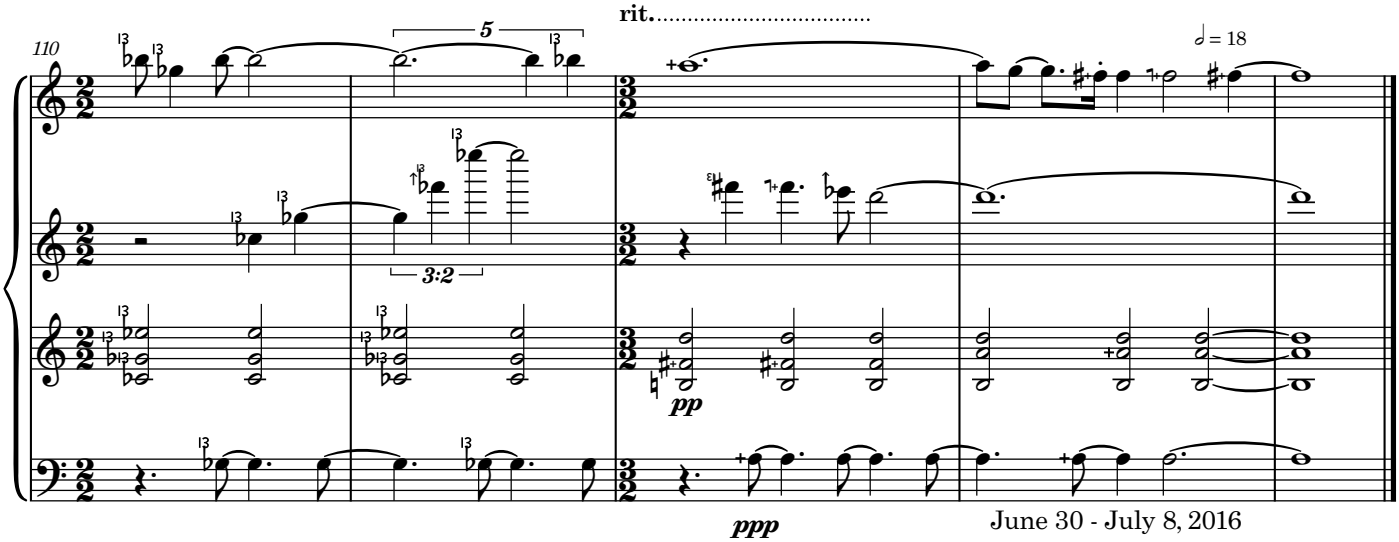

♩ = 37
♩ = 35
85
19:12
ff


♩ = 33
86
13


87
89
92
19:12
13
6:7


96
𝅗𝅥 = 32
𝅗𝅥 = 29
p
pp
7:4
3:2
99
𝅗𝅥 = 32
𝅗𝅥 = 31
3
103
𝅗𝅥 = 30
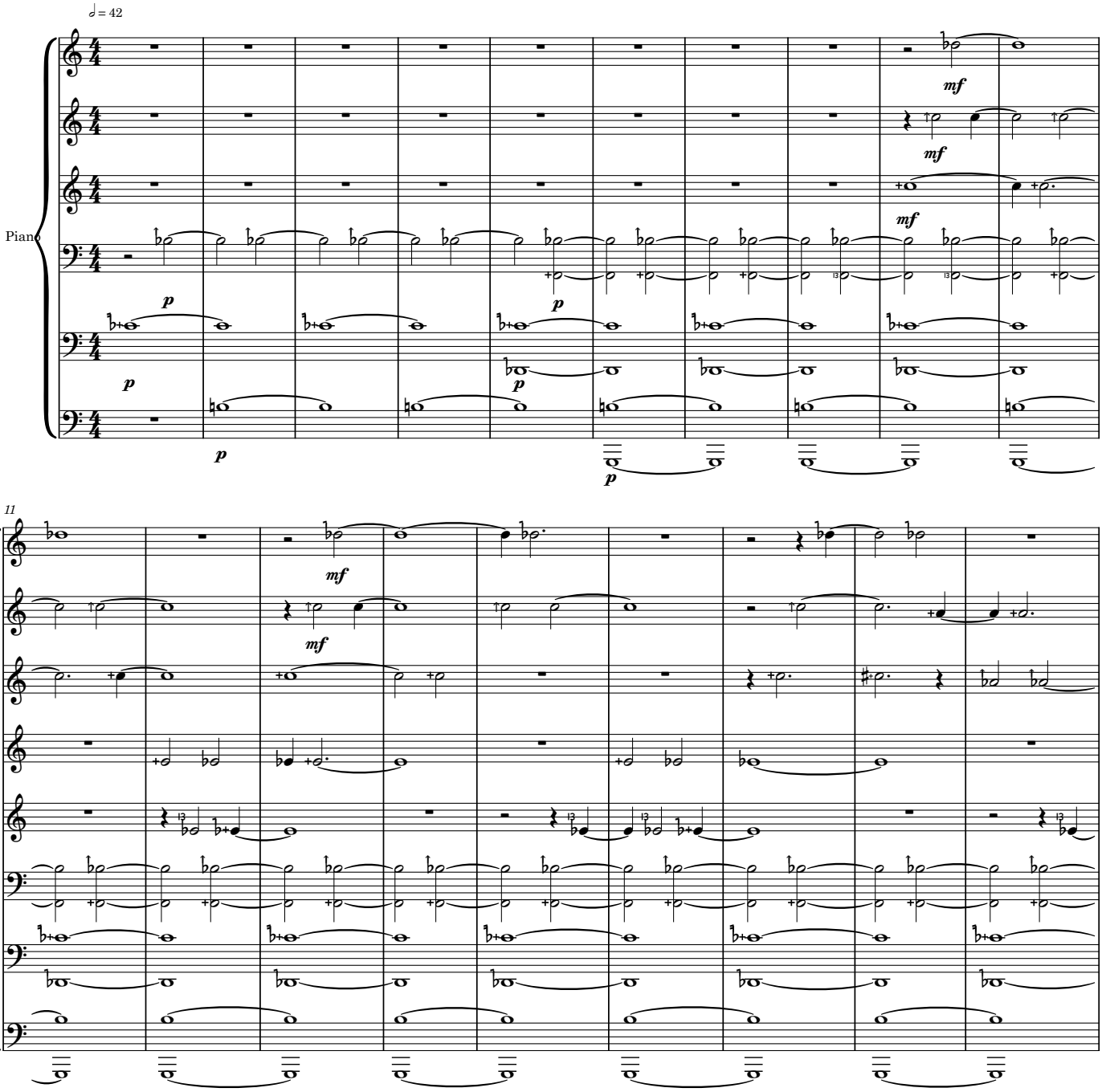




June 30 - July 8, 2016
minor revisions March 3, 2017
Germantown, NY

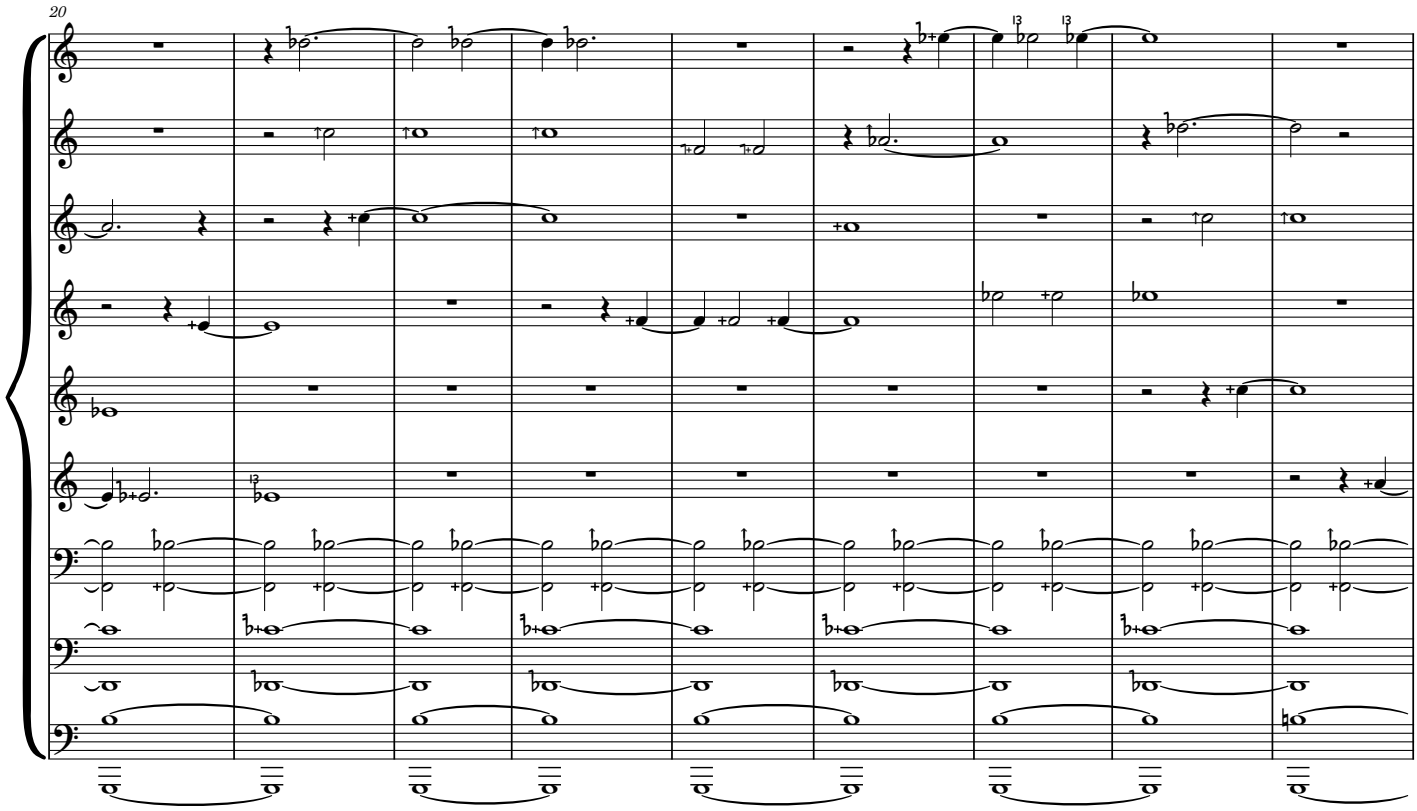
Star Dance

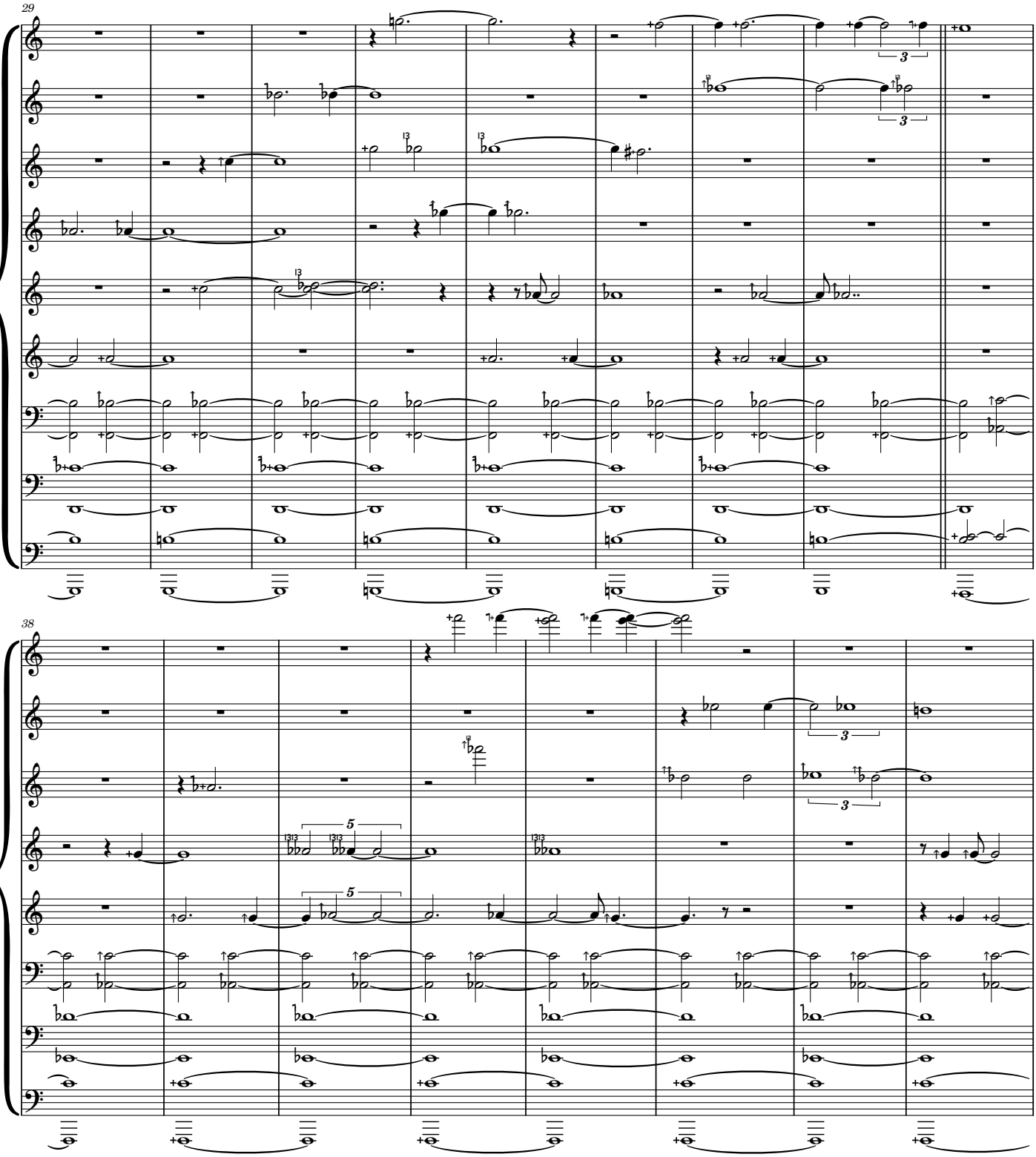
Kyle Gann
2016

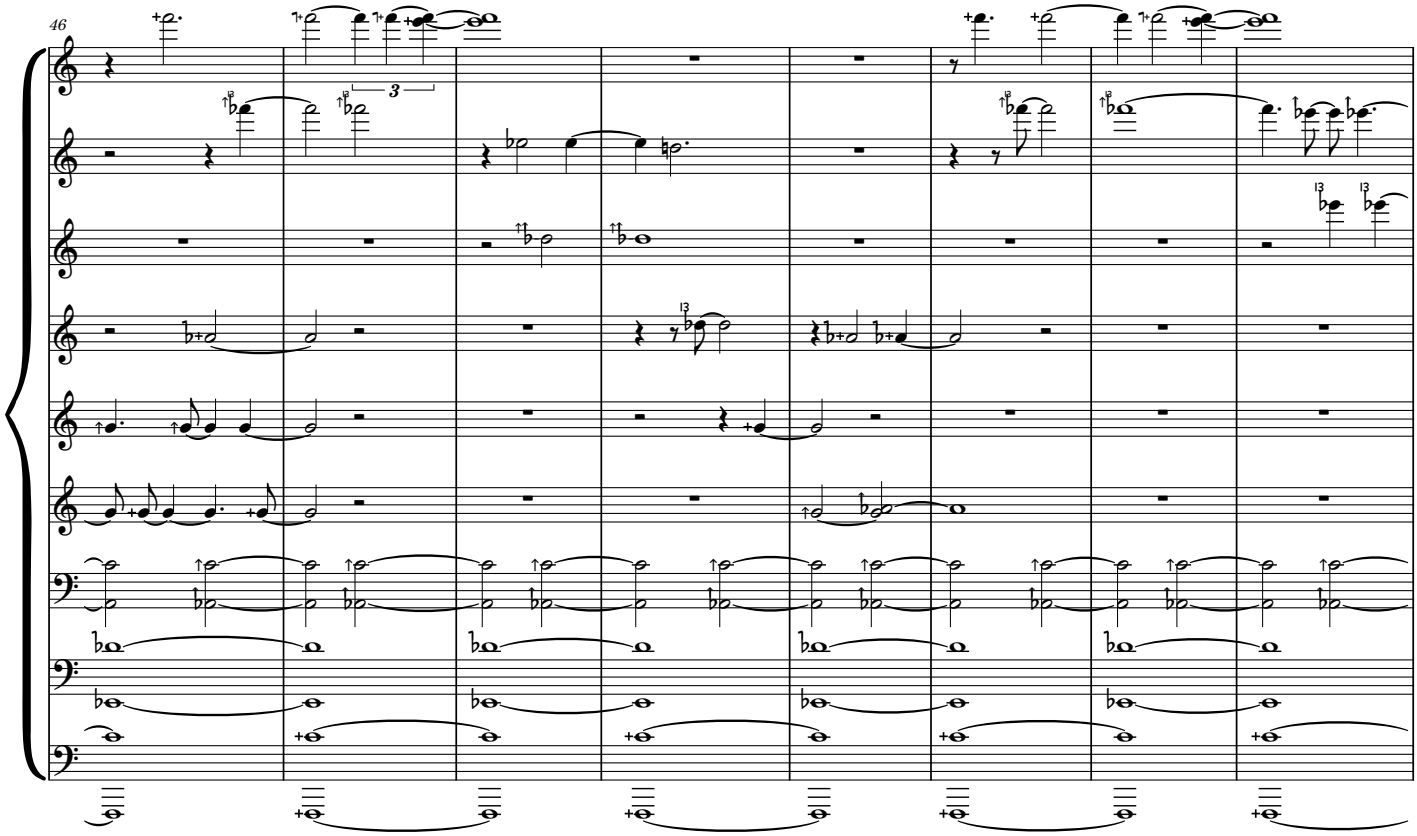


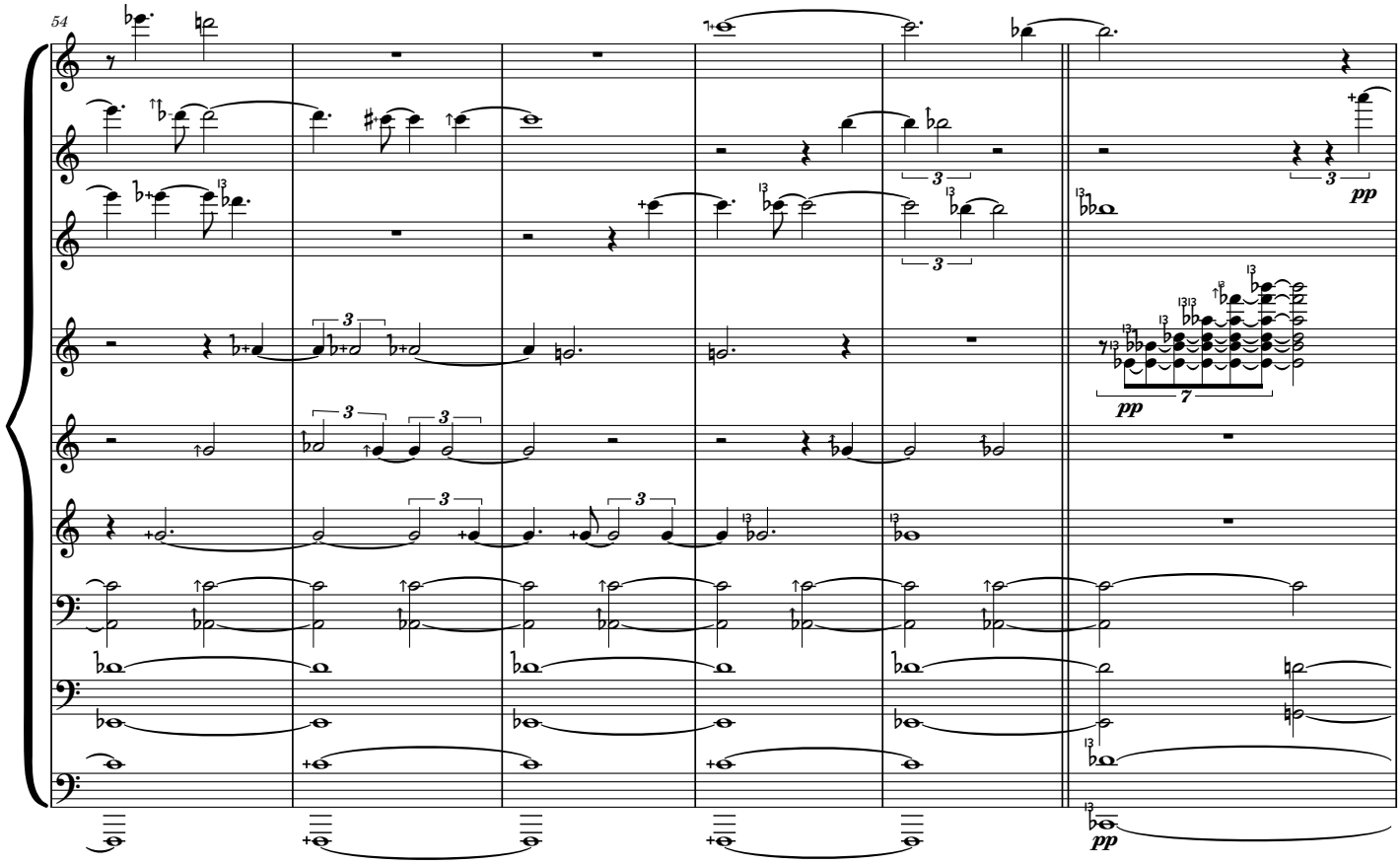
Note: In the original MIDI file, some notes are held longer than shown in this score in order to obtain beating from closely spaced pitches. It has not always proved practicable to show full durations in this score,
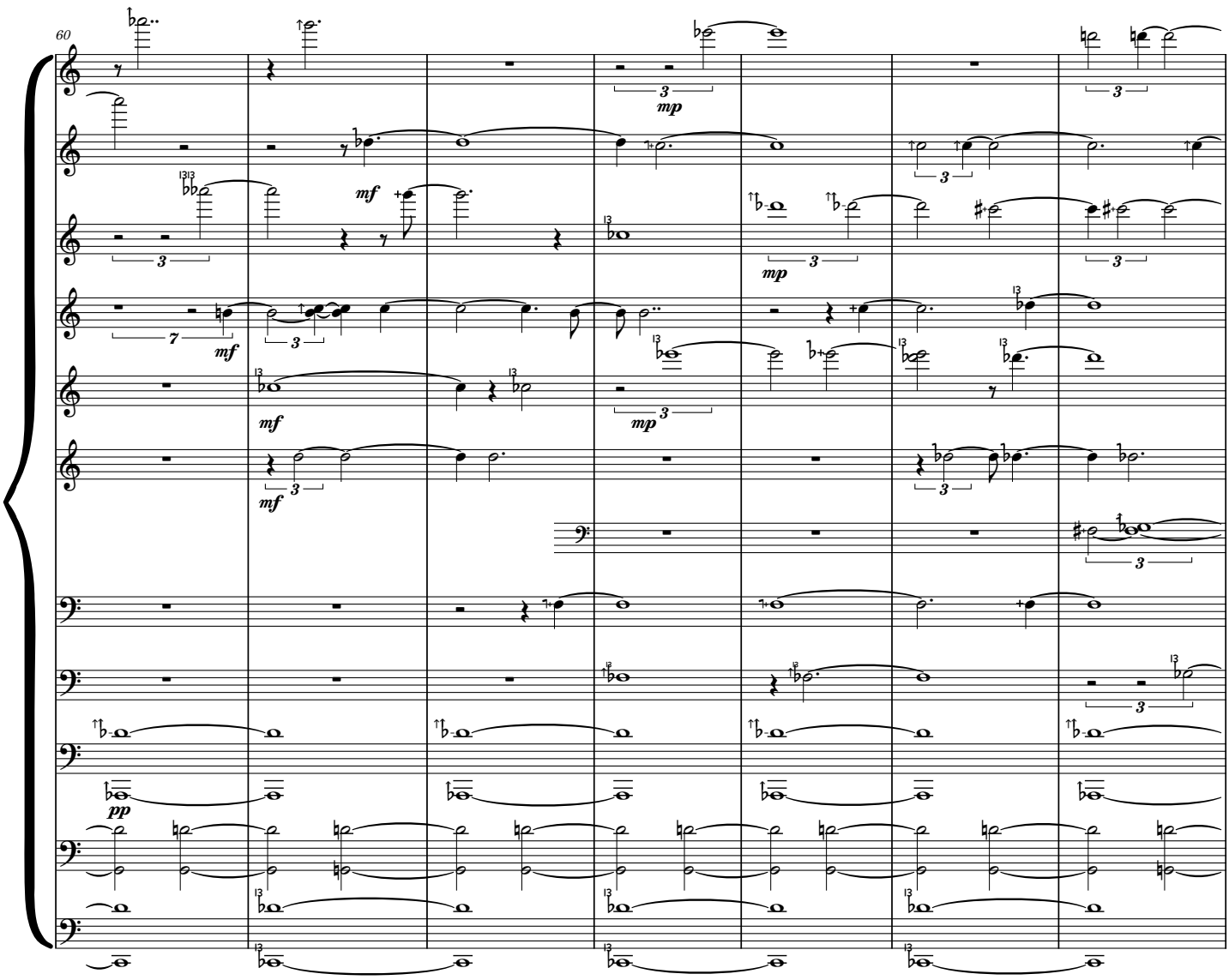
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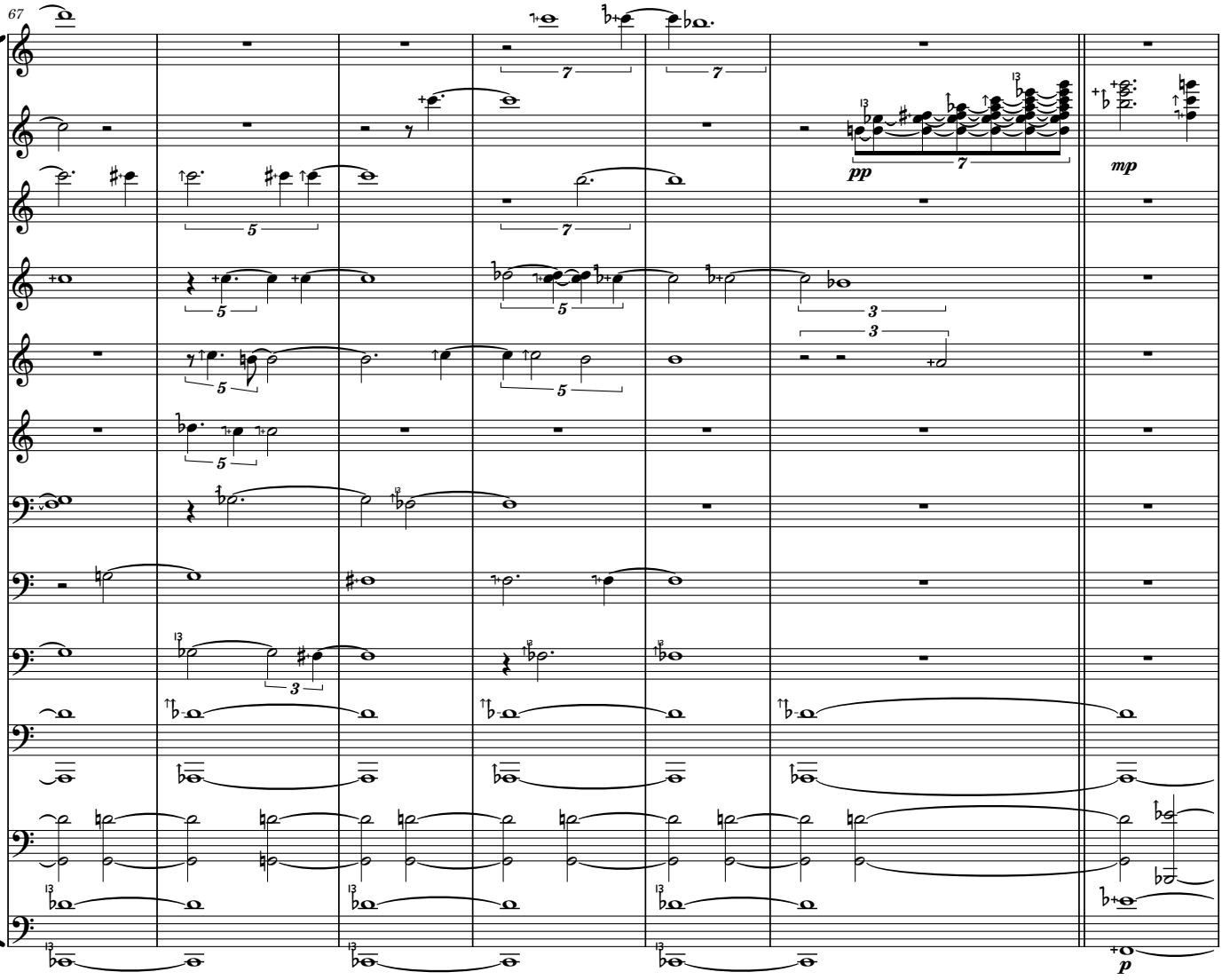

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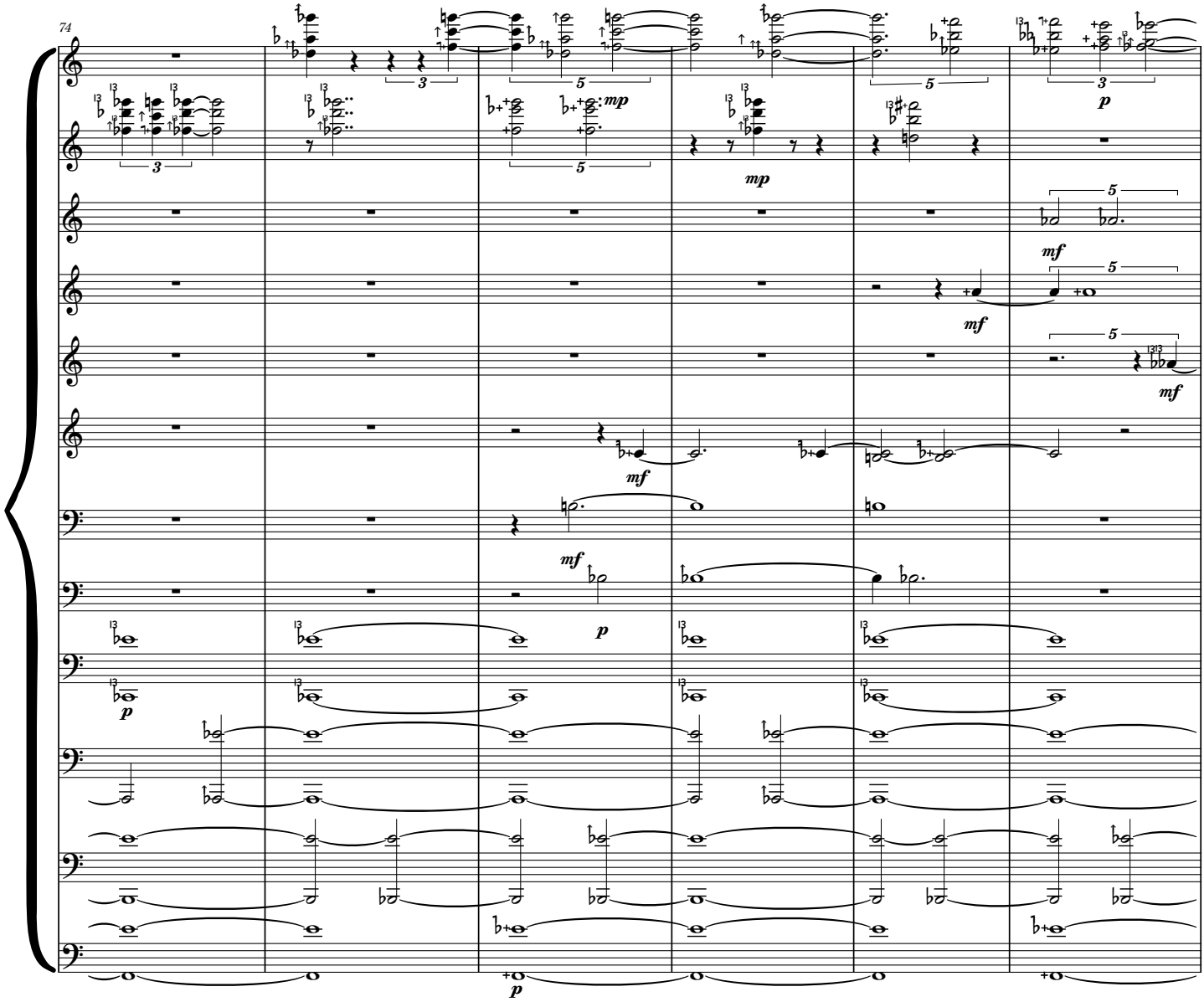

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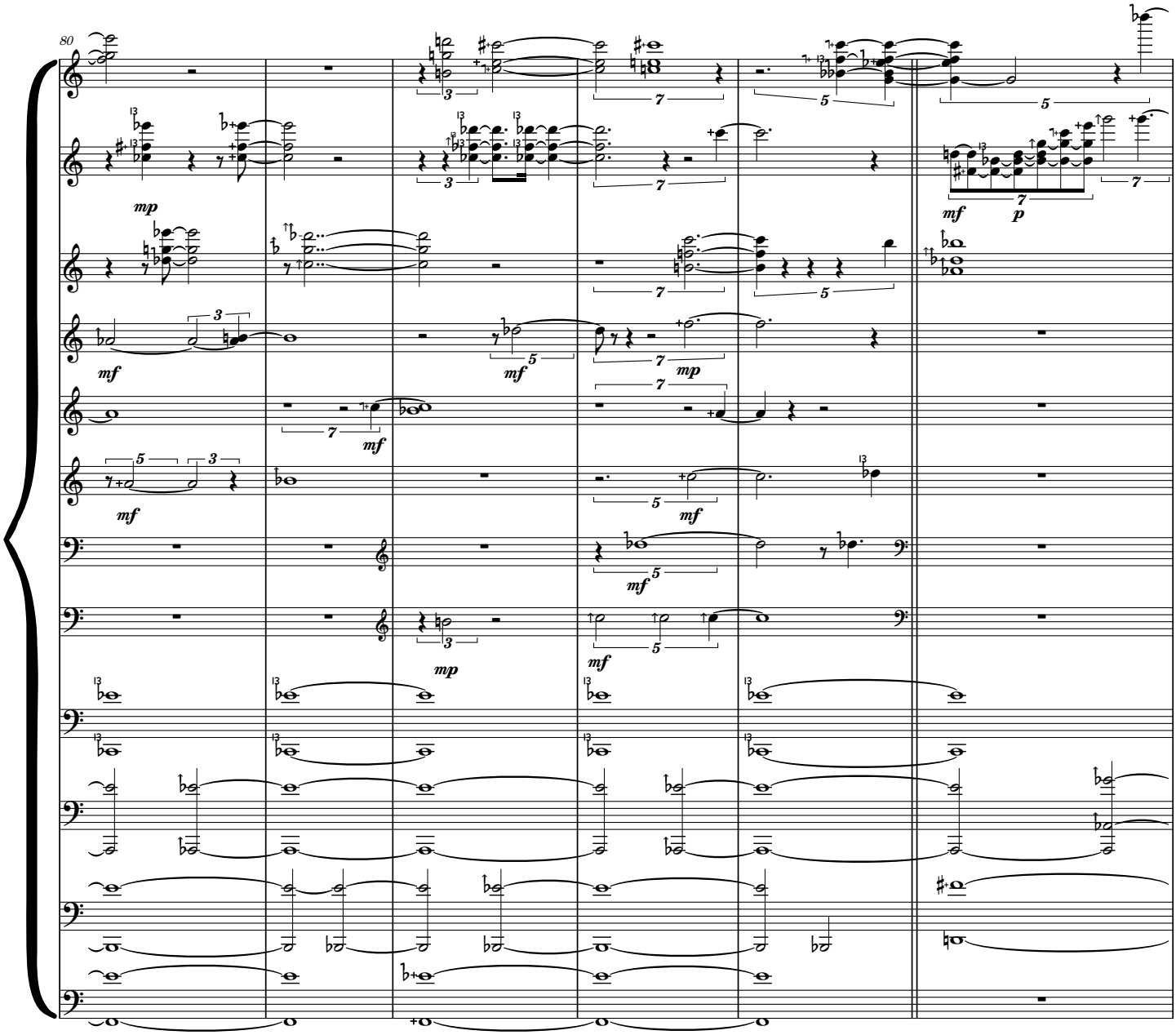

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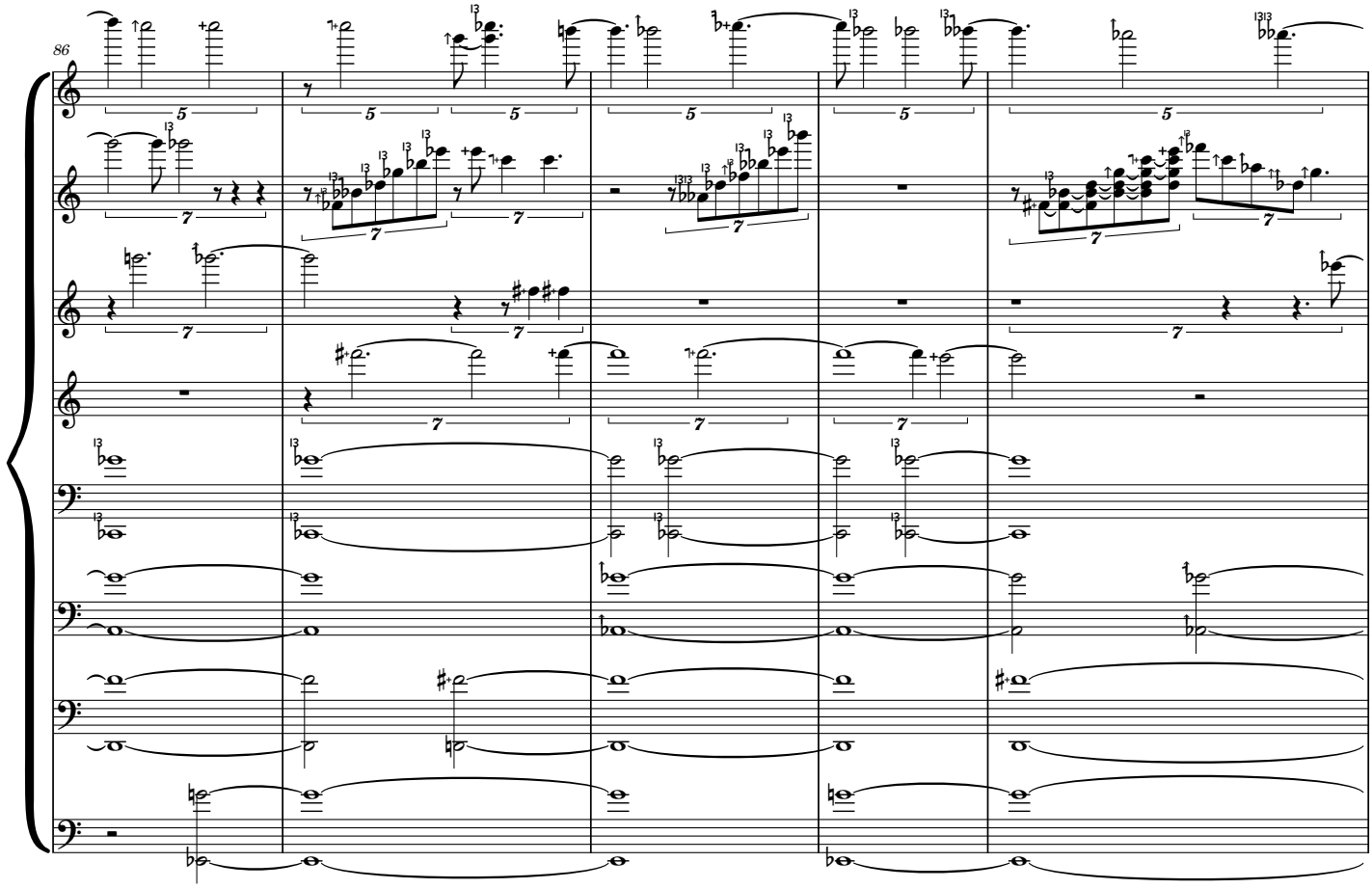

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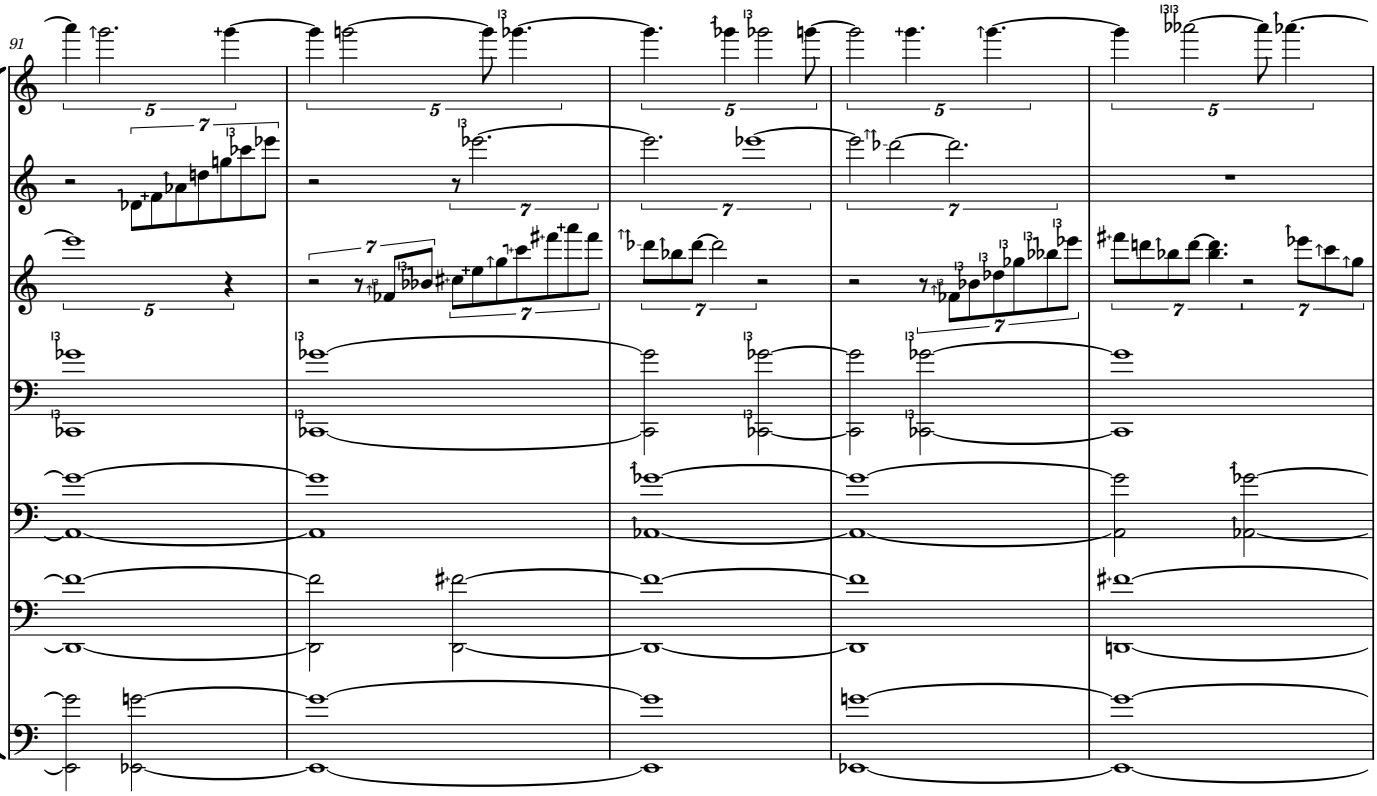

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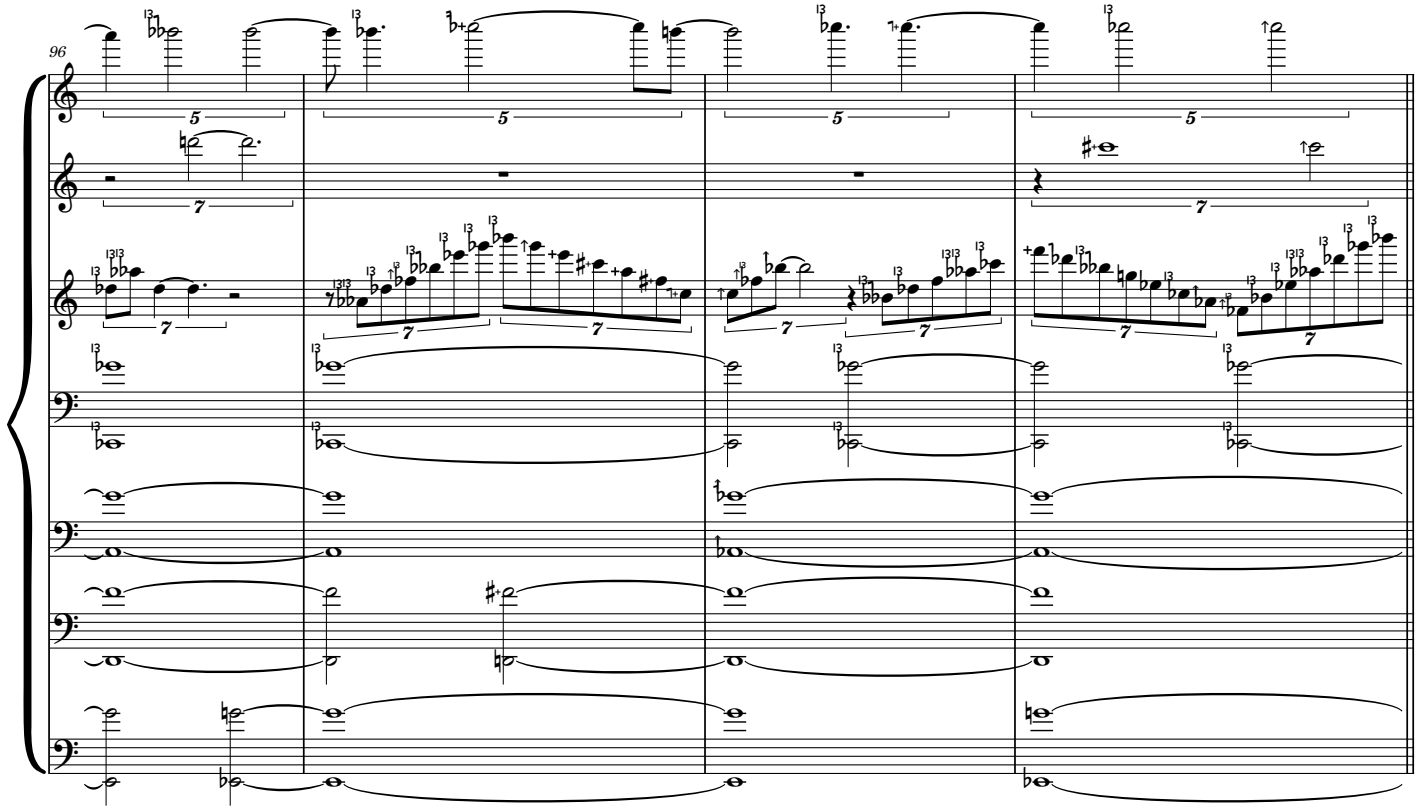

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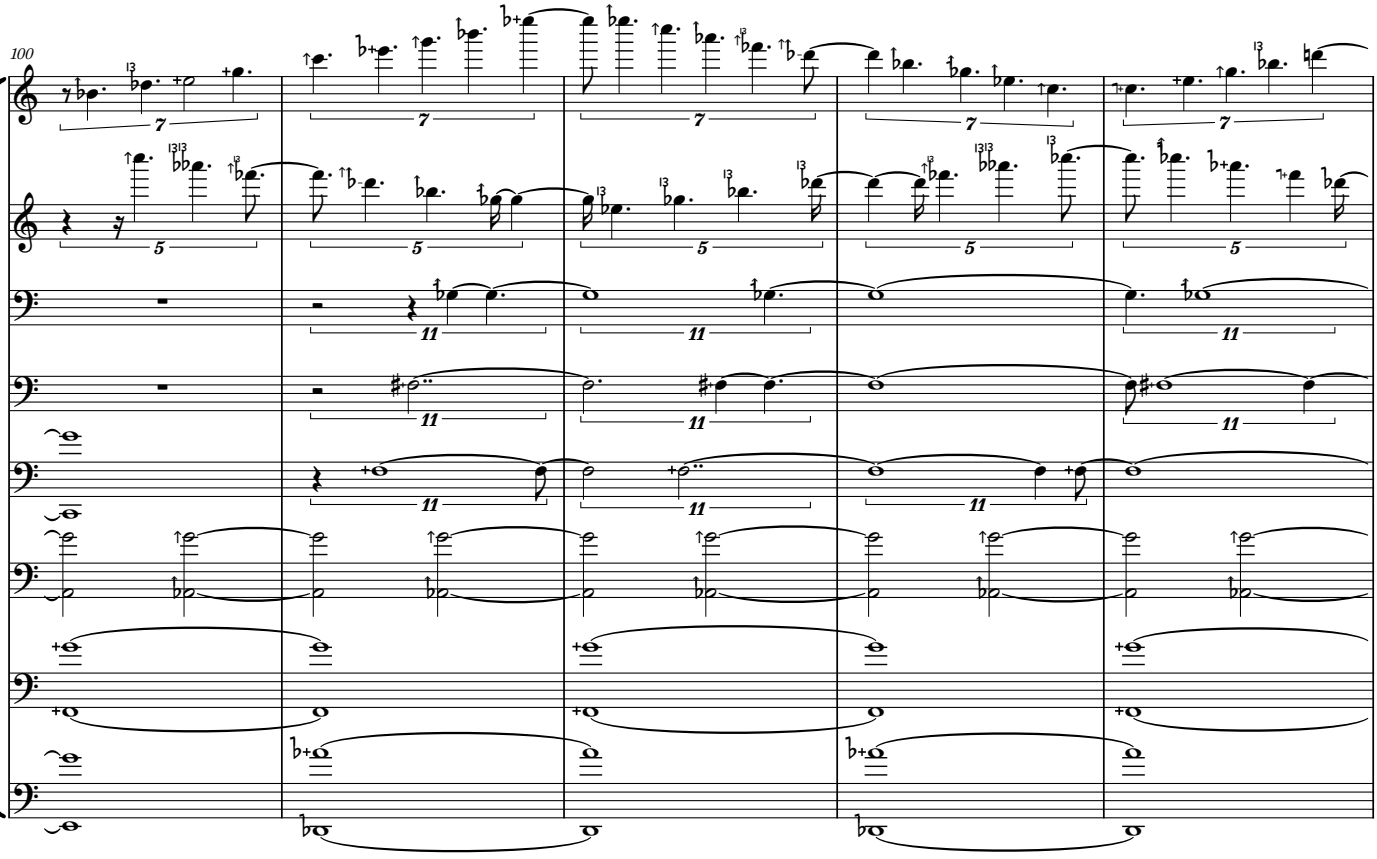

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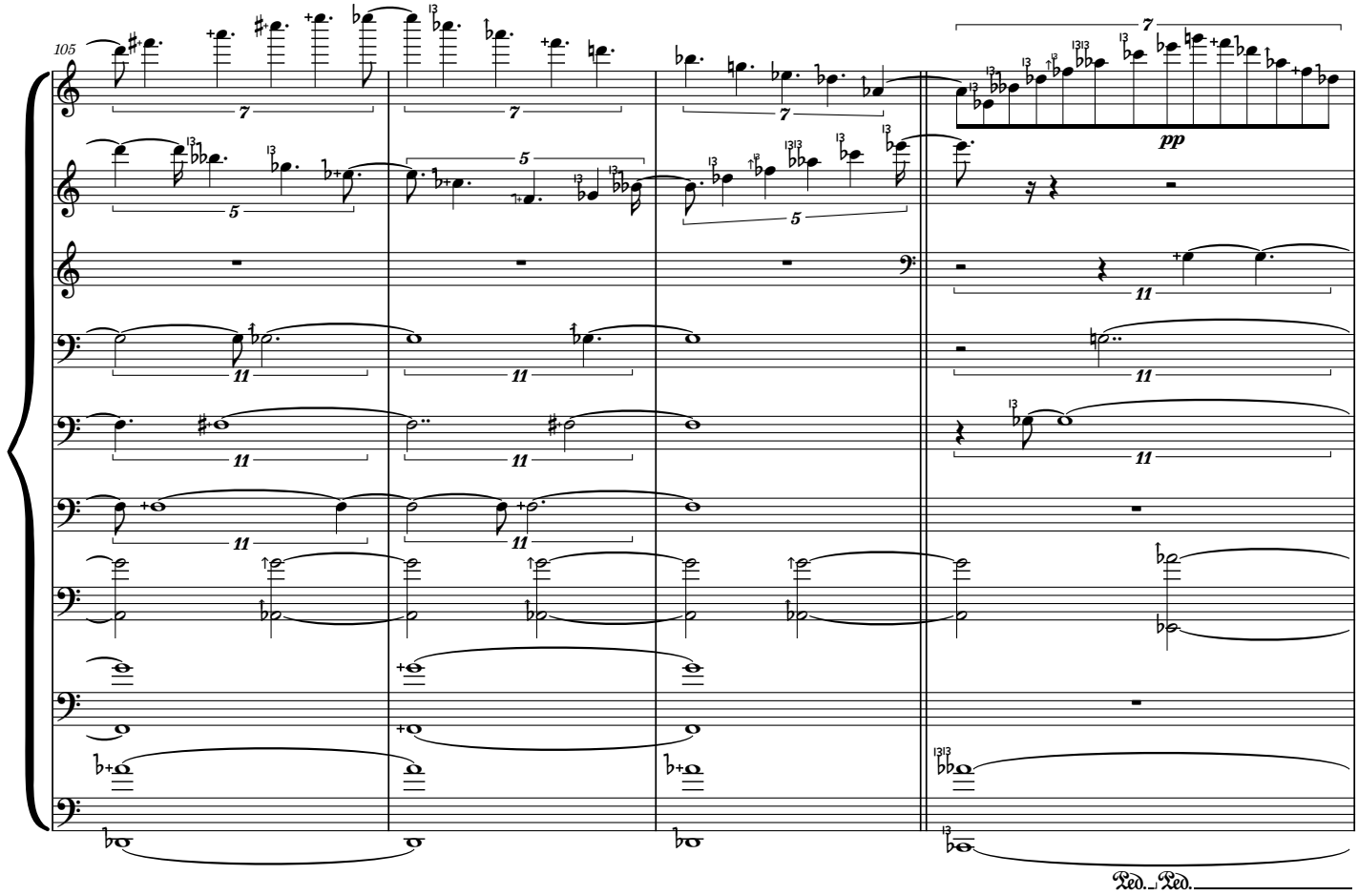

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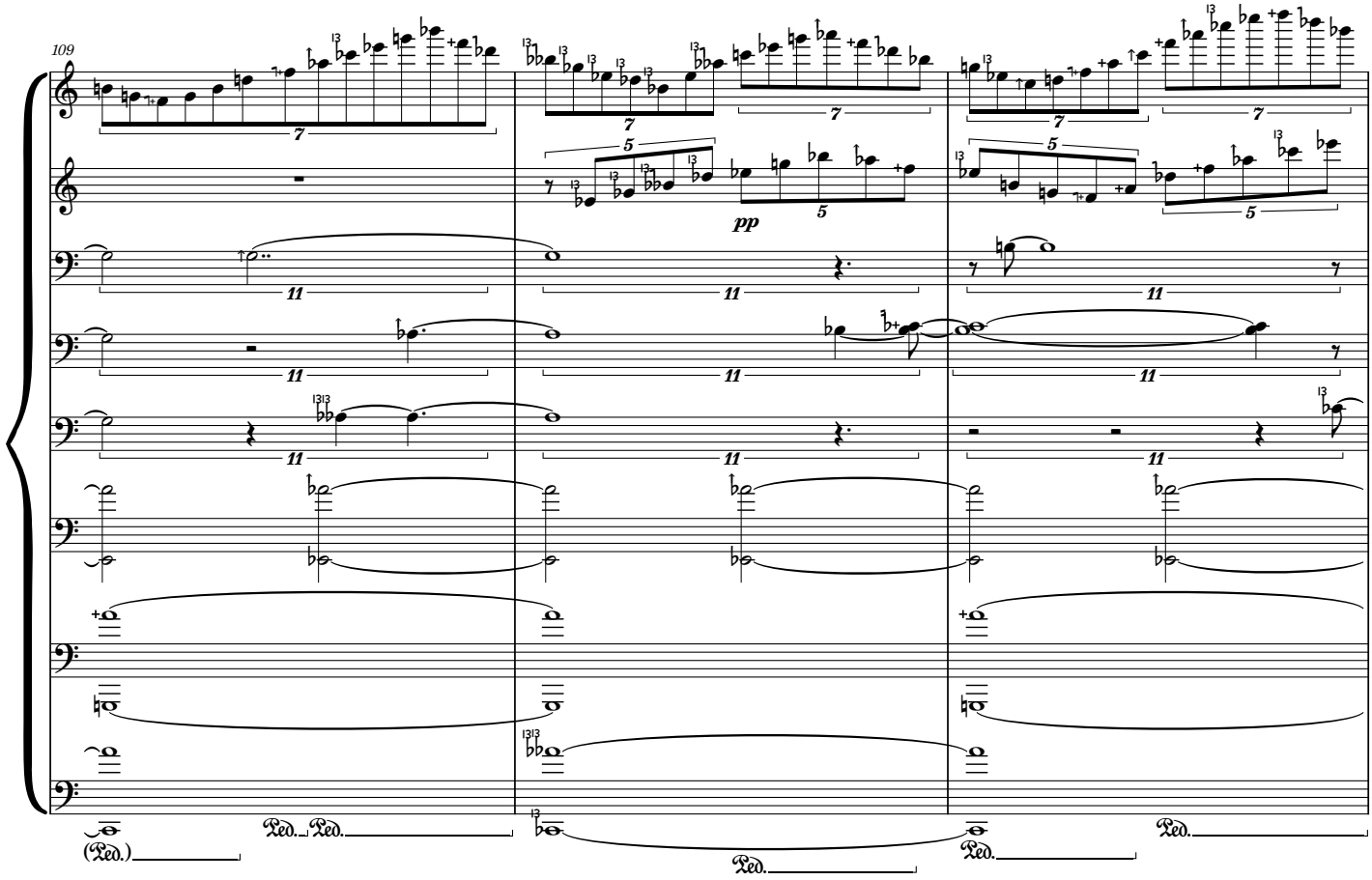

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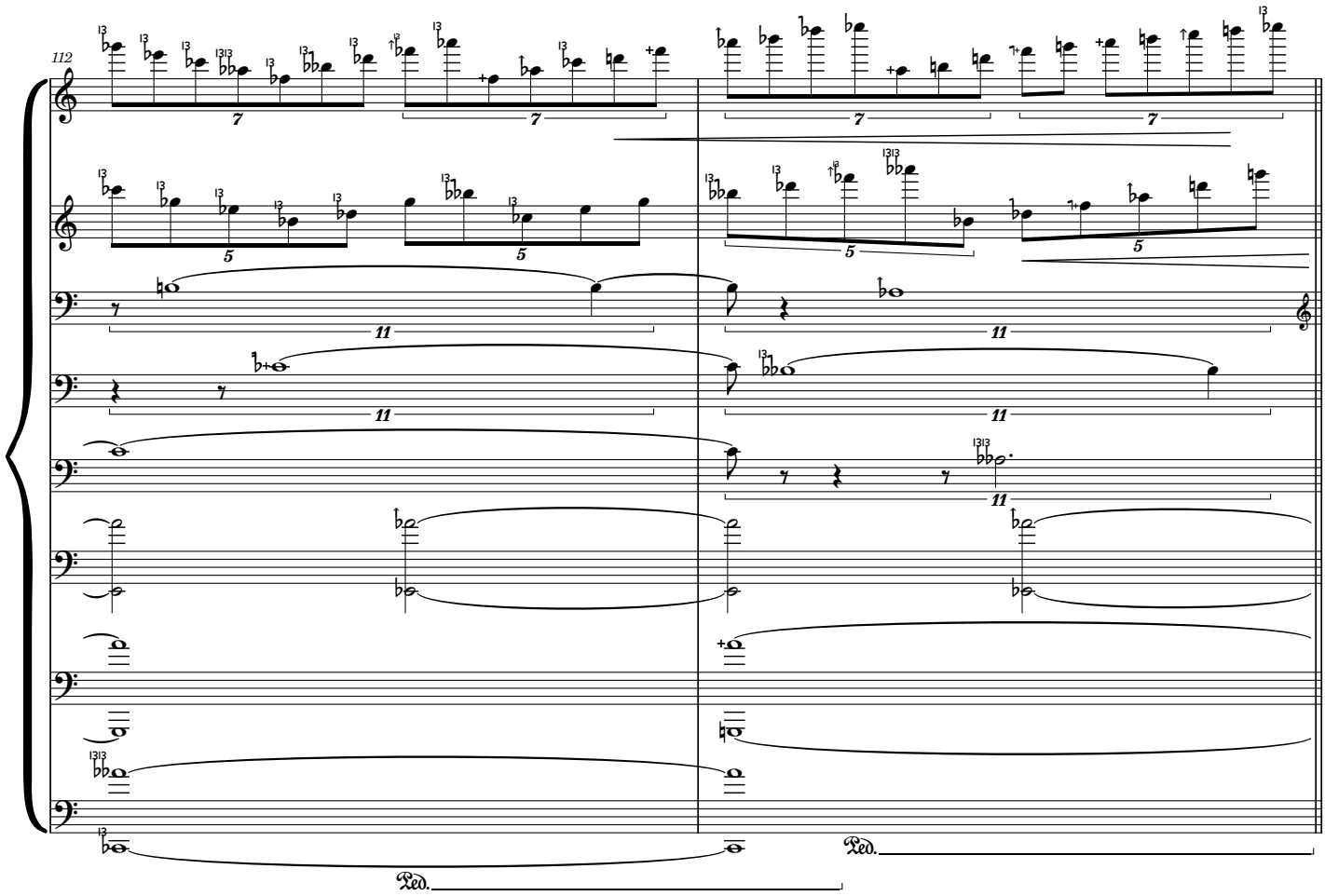

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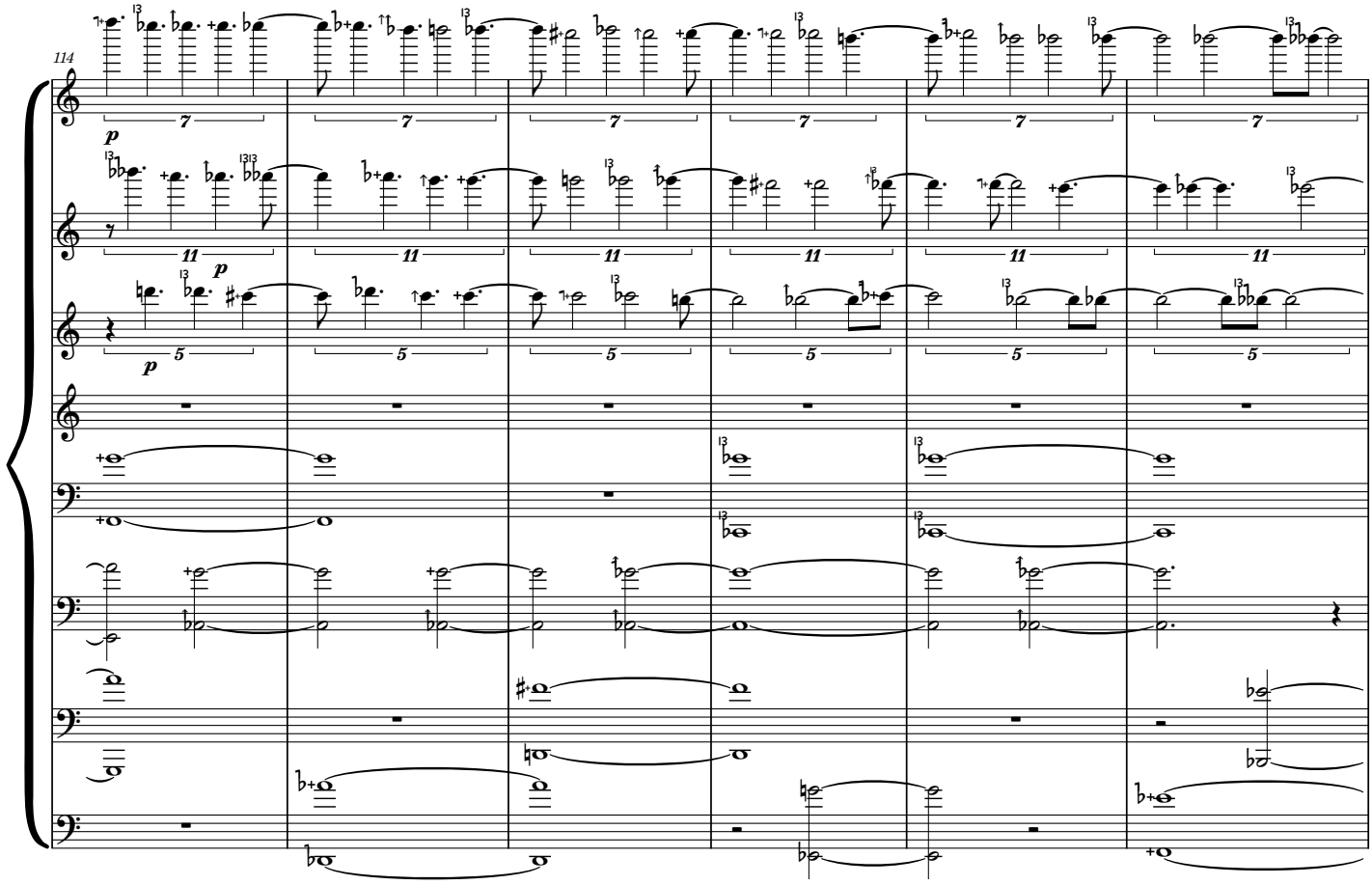

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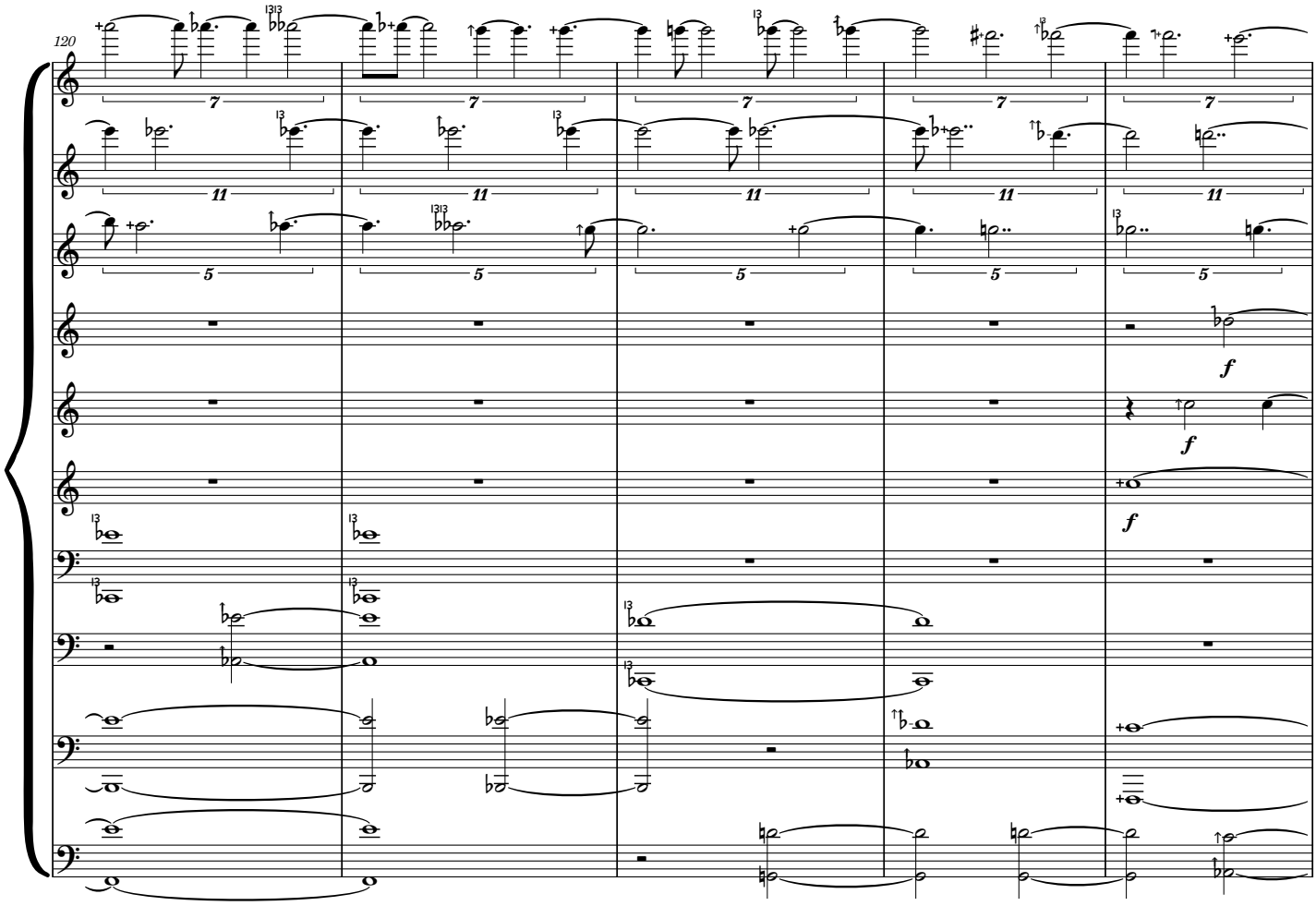

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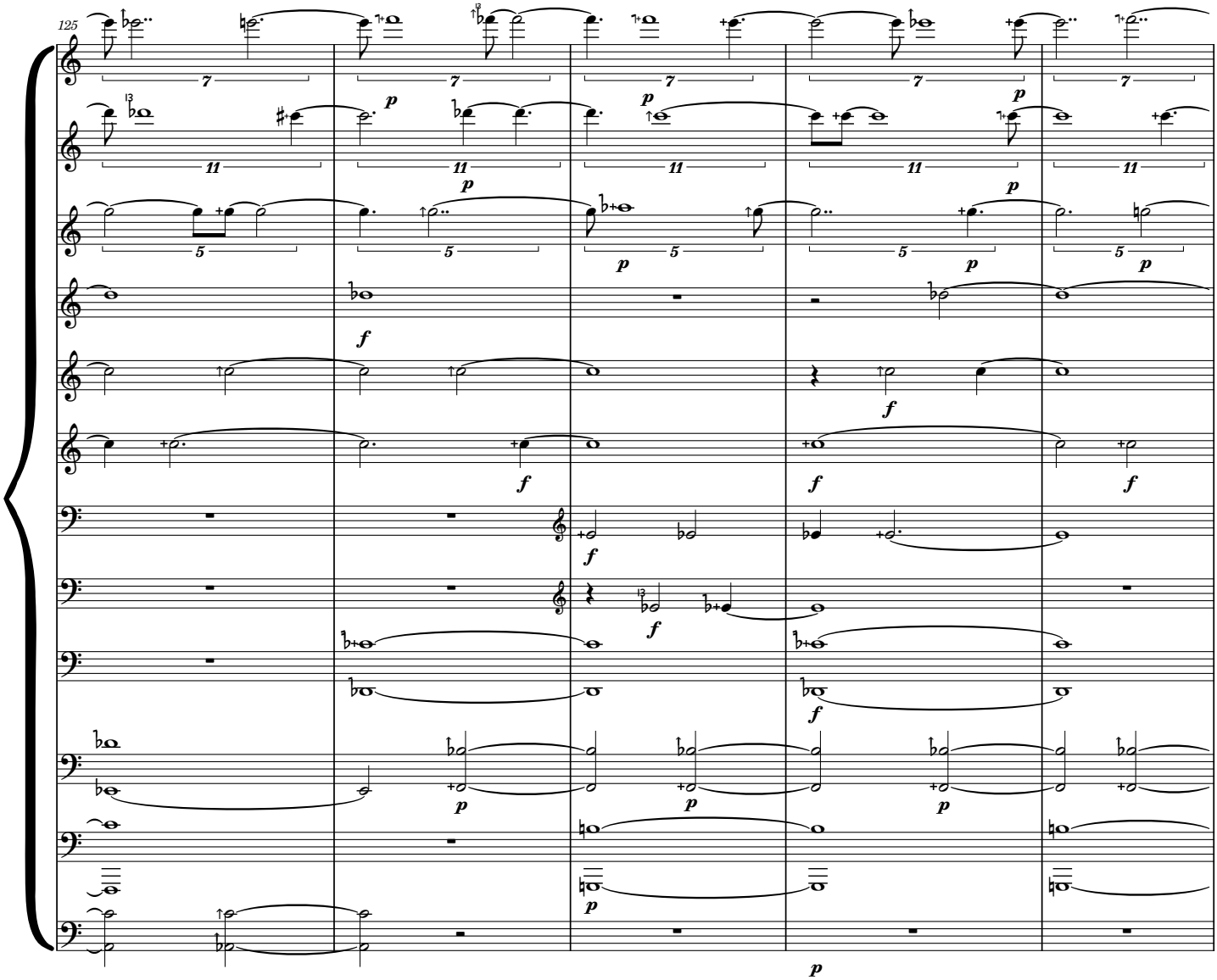

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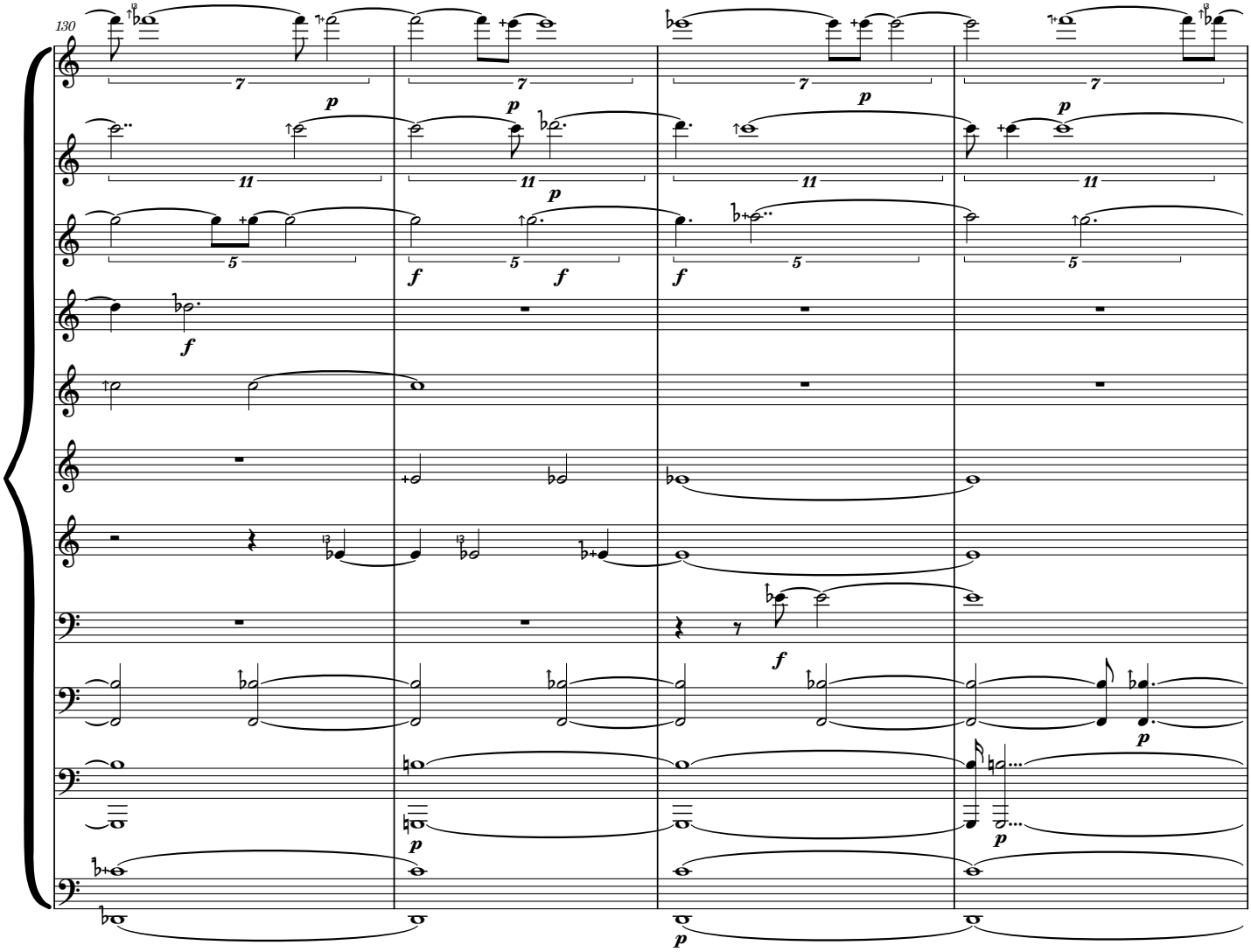

109
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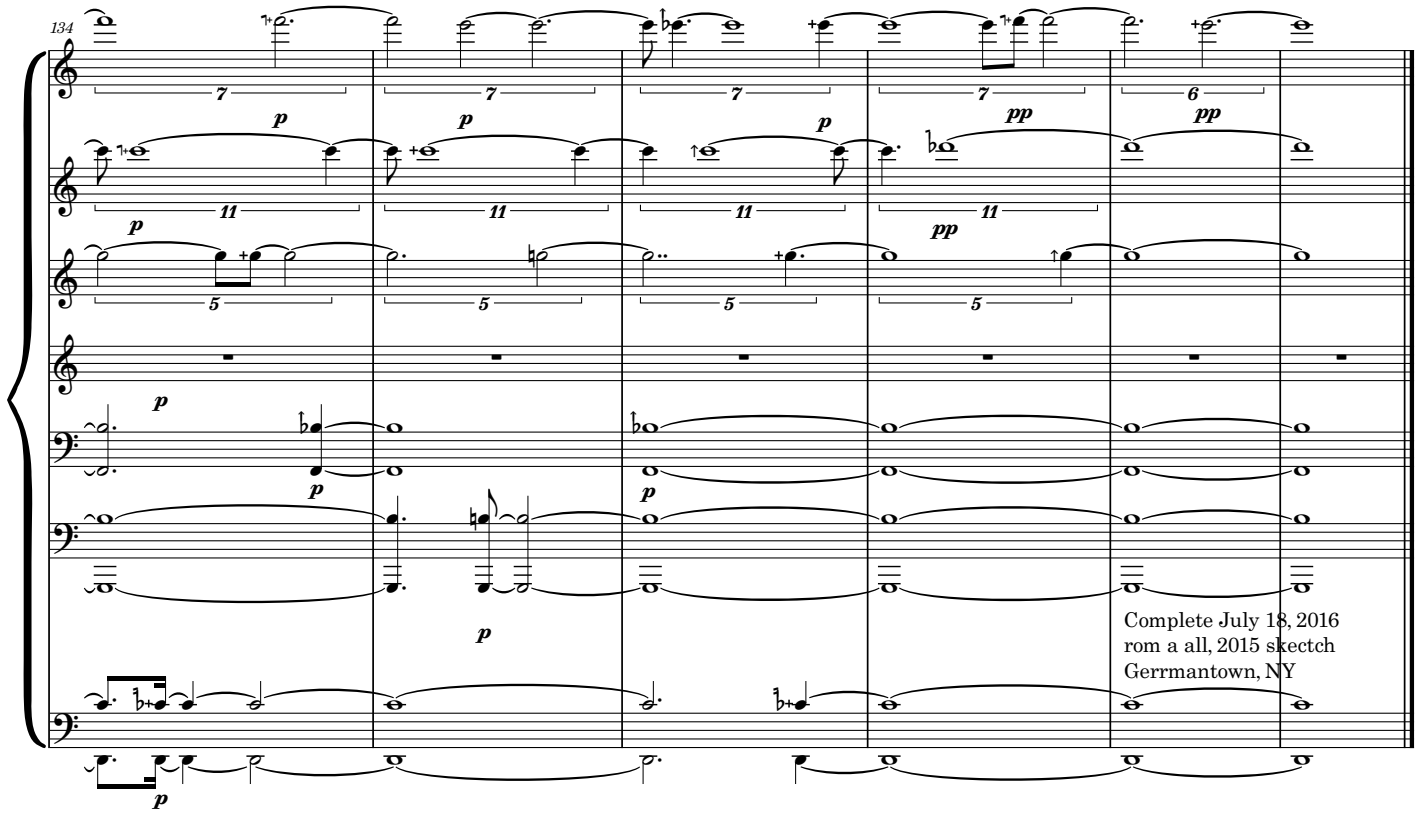

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Ped.


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5


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f
f

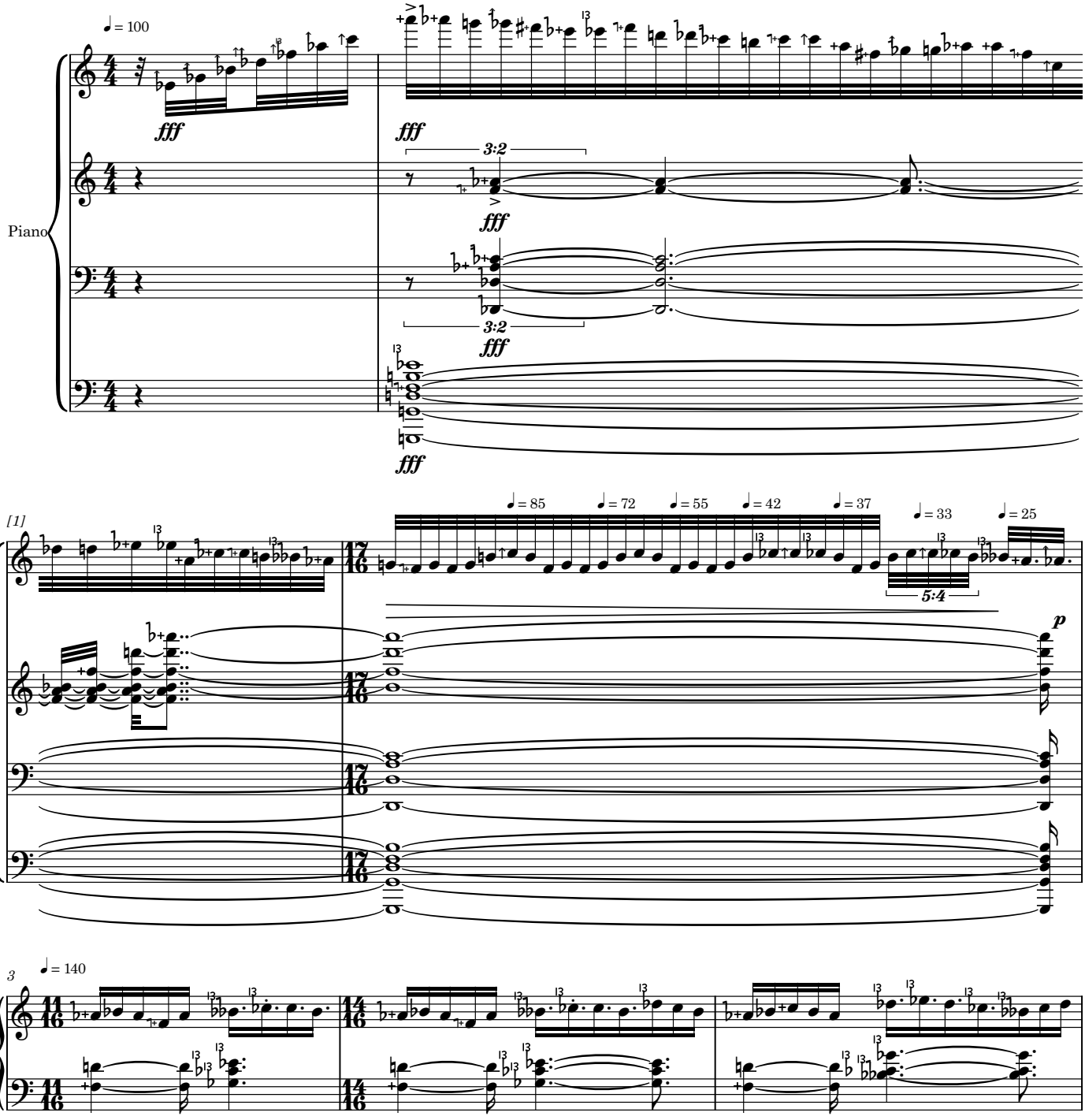

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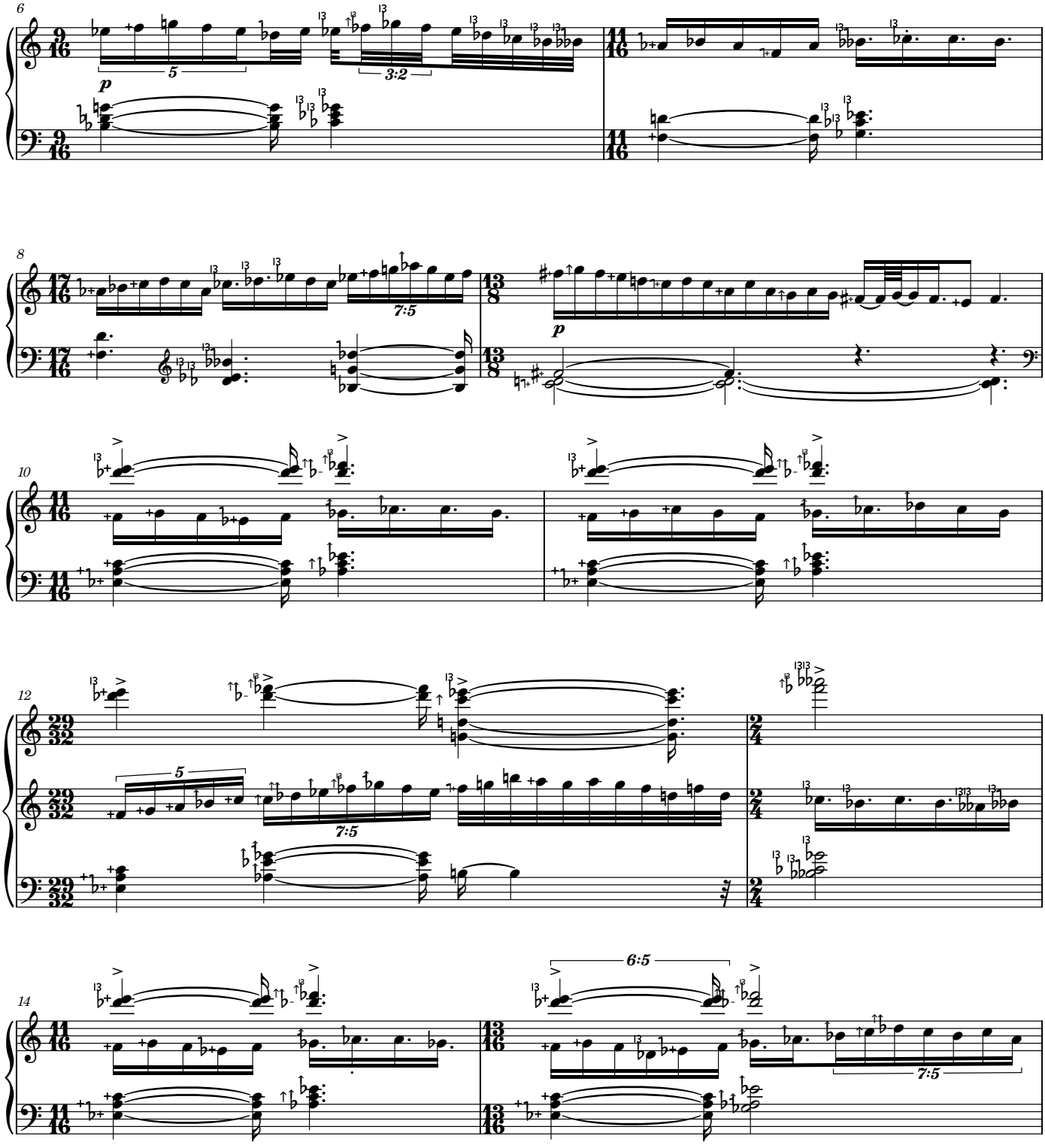

134
Complete July 18, 2016
rom a all, 2015 skectch
Gerrmantown, NY

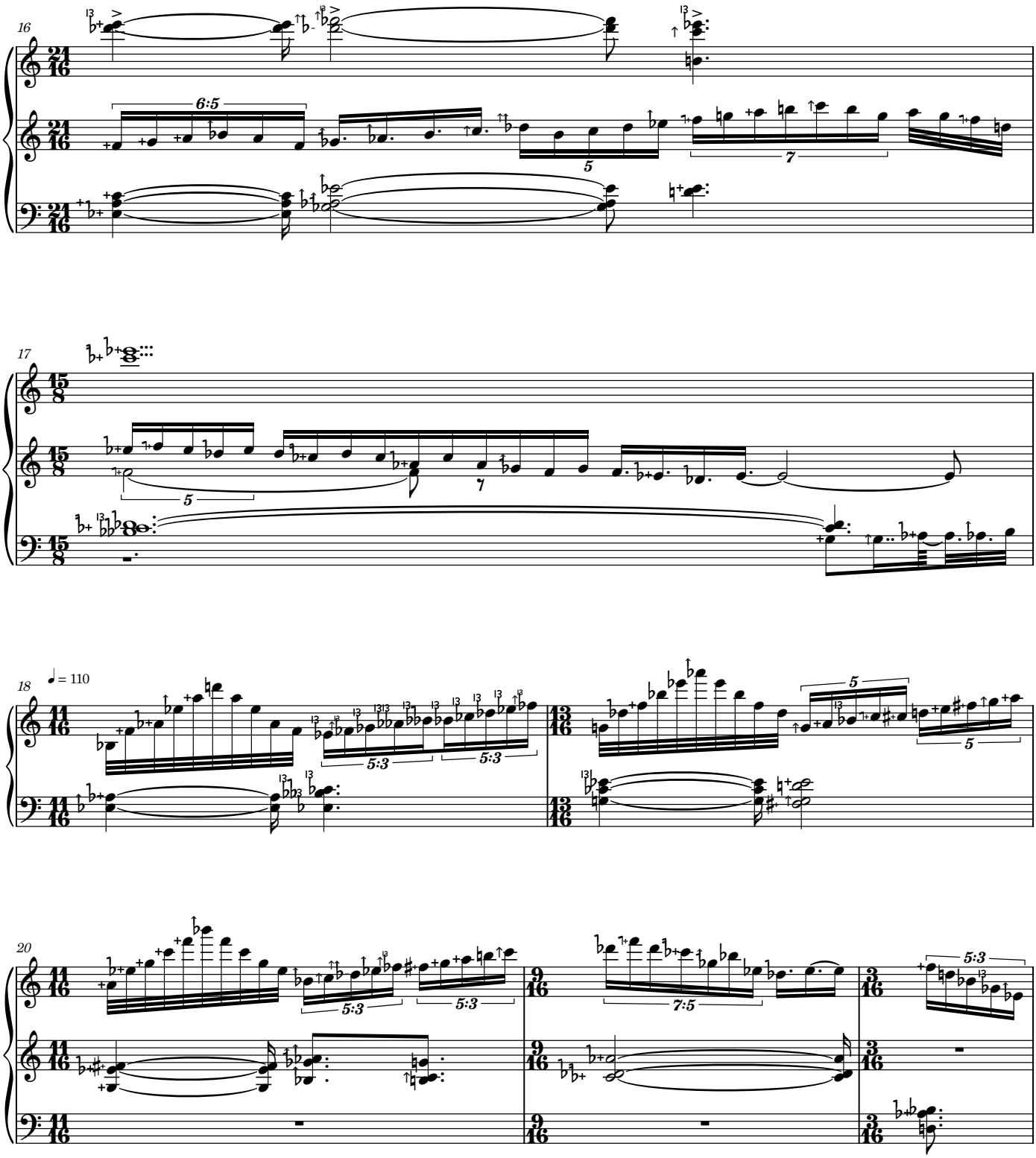
Ride the Cosmos
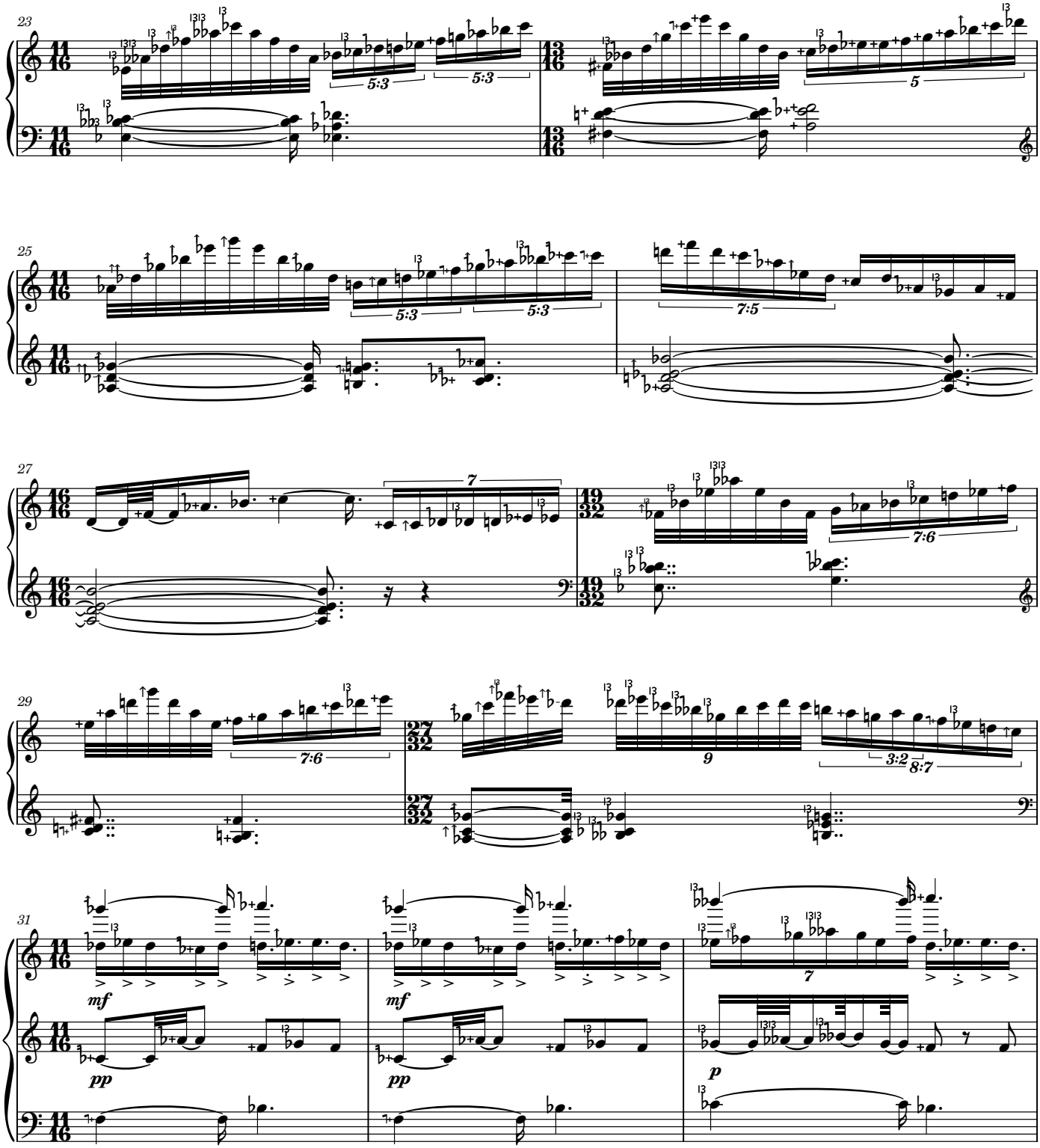
Kyle Gann
2016-17

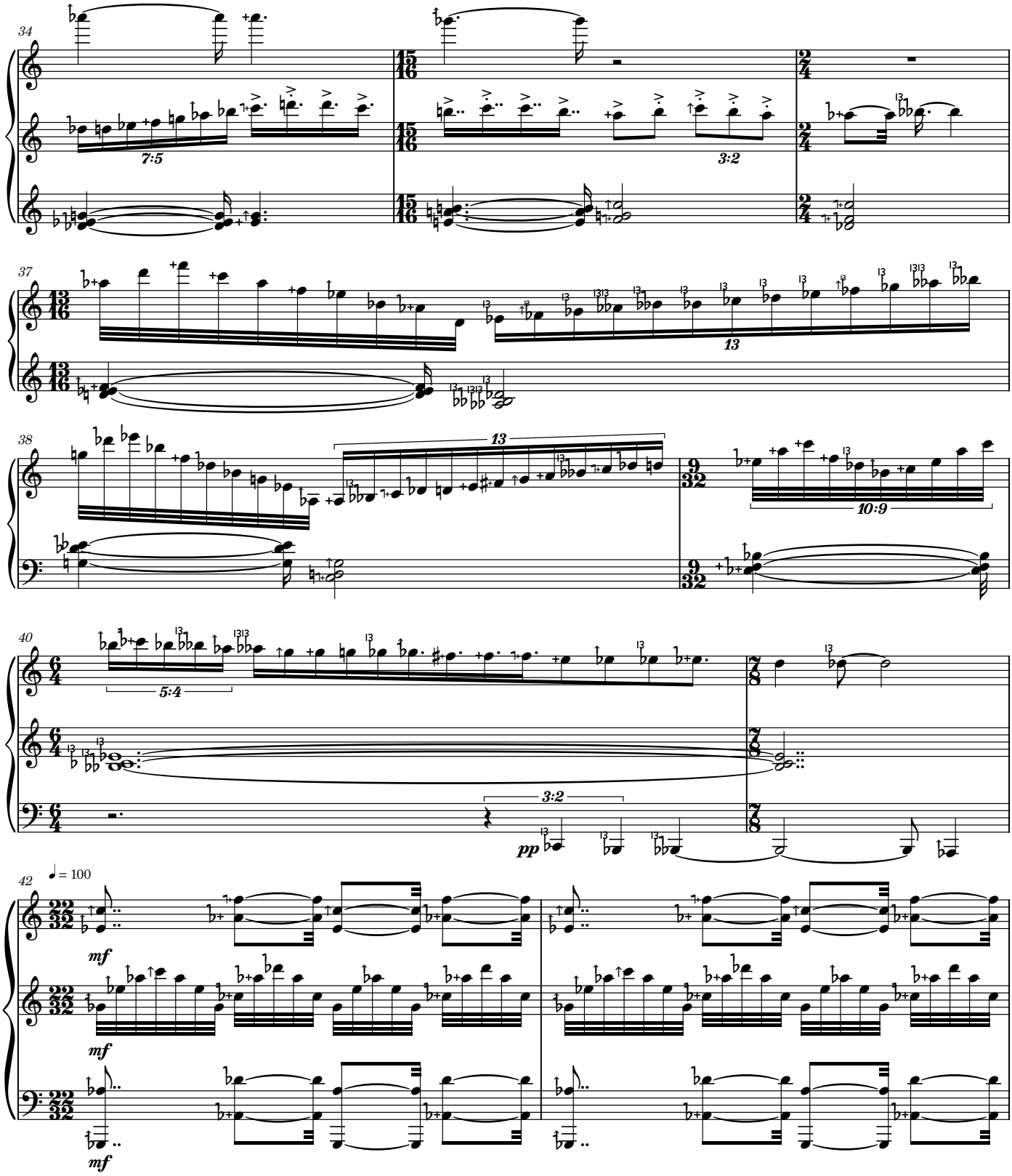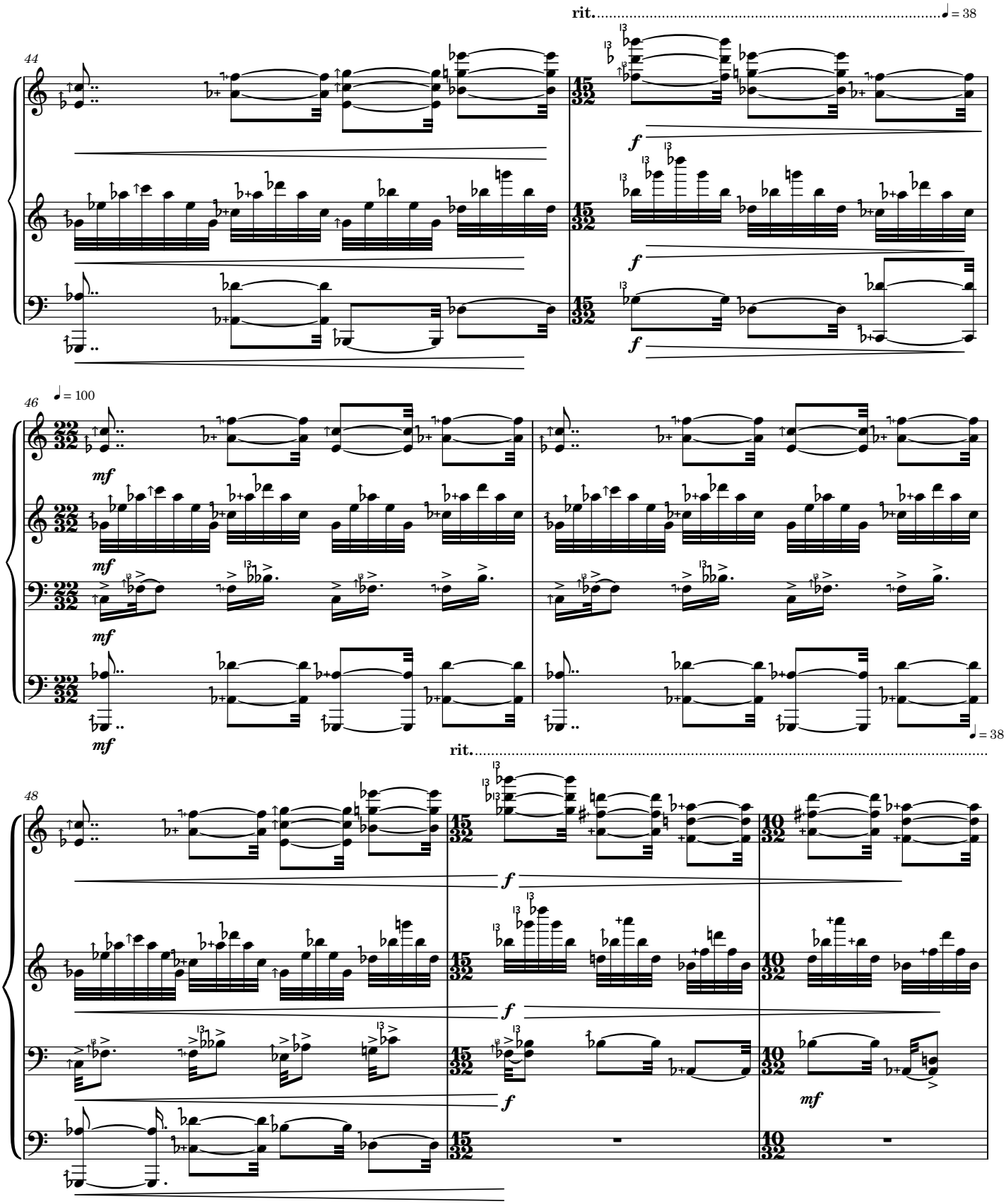


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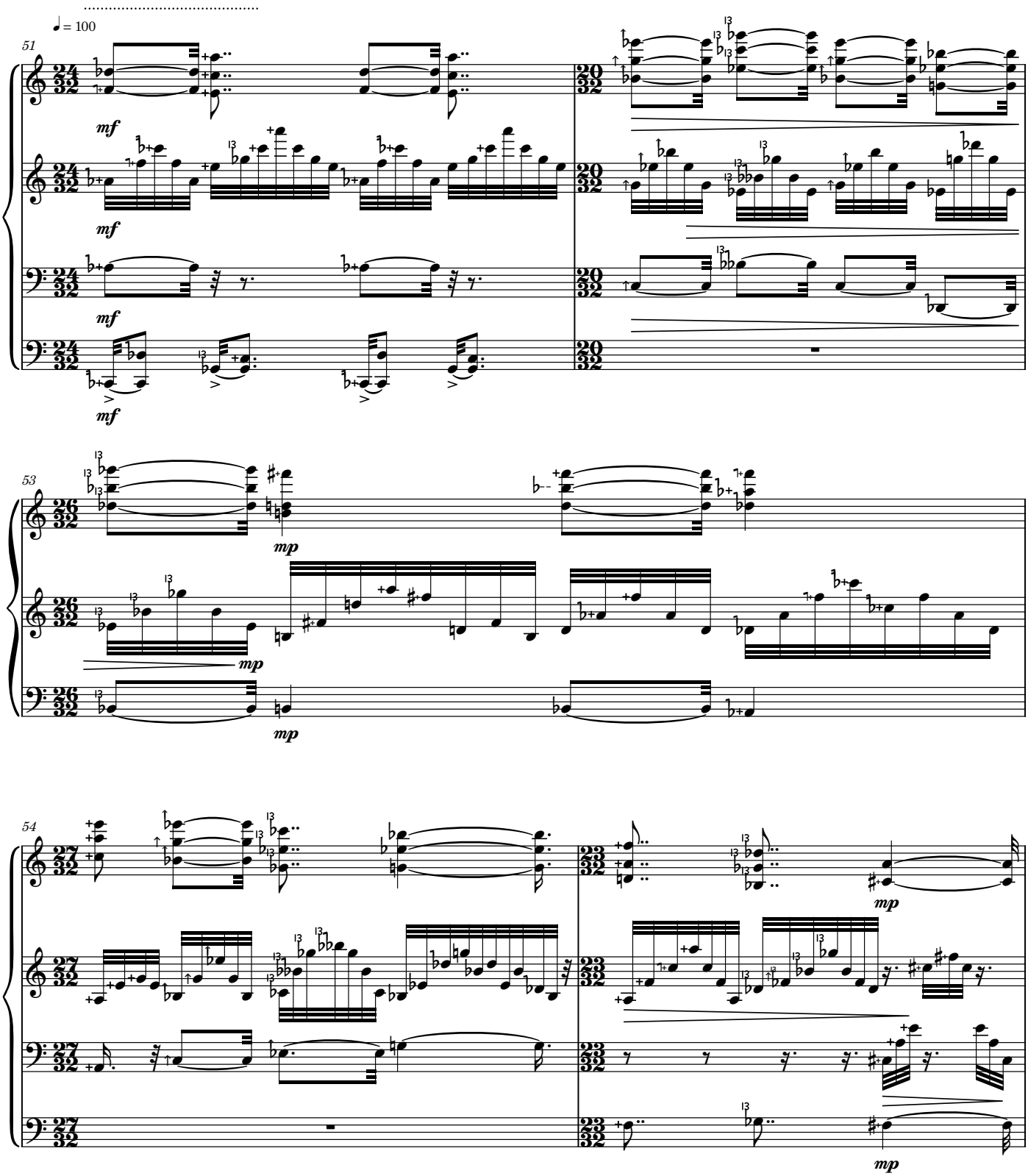

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7:5

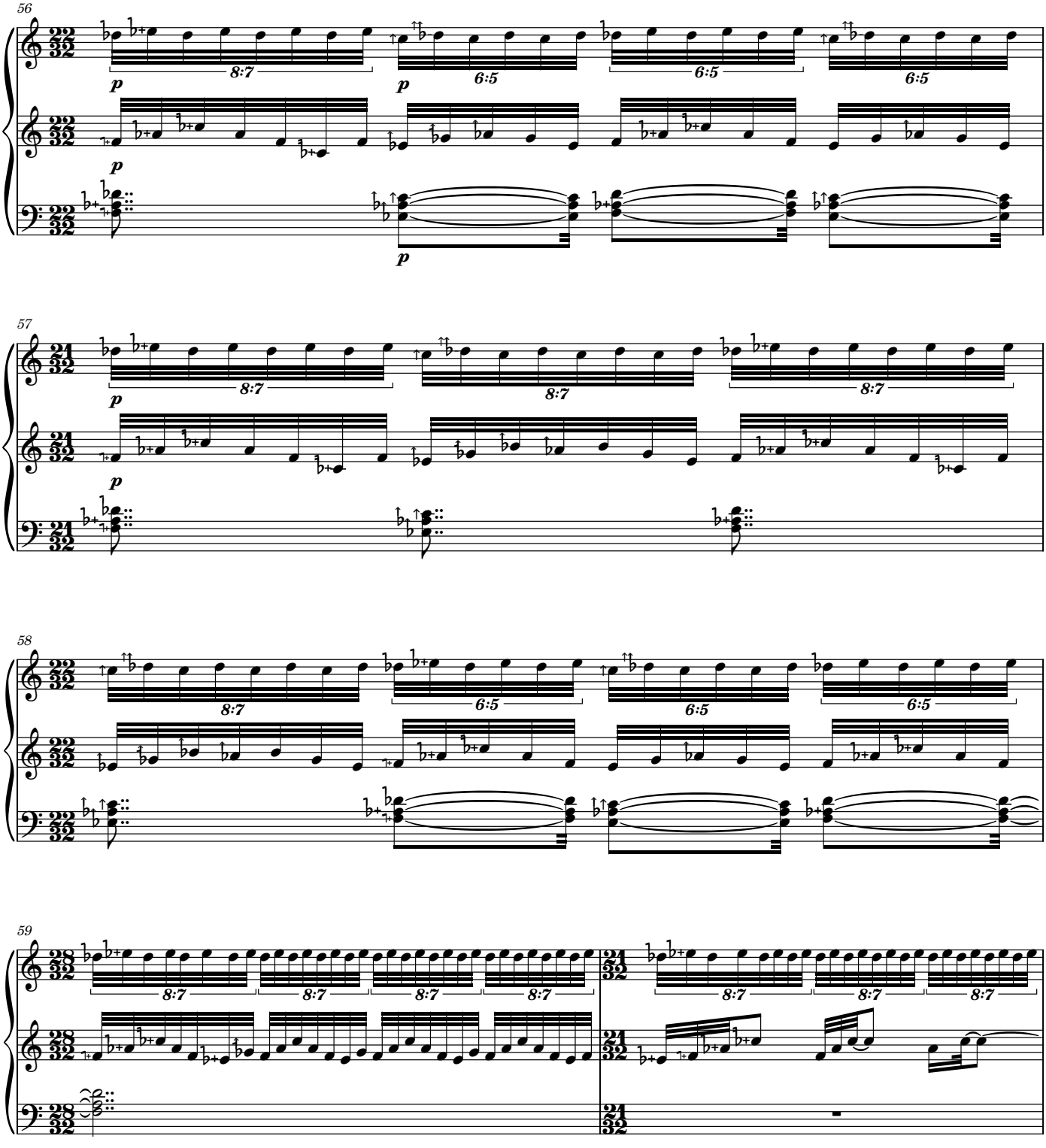

16
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5:3

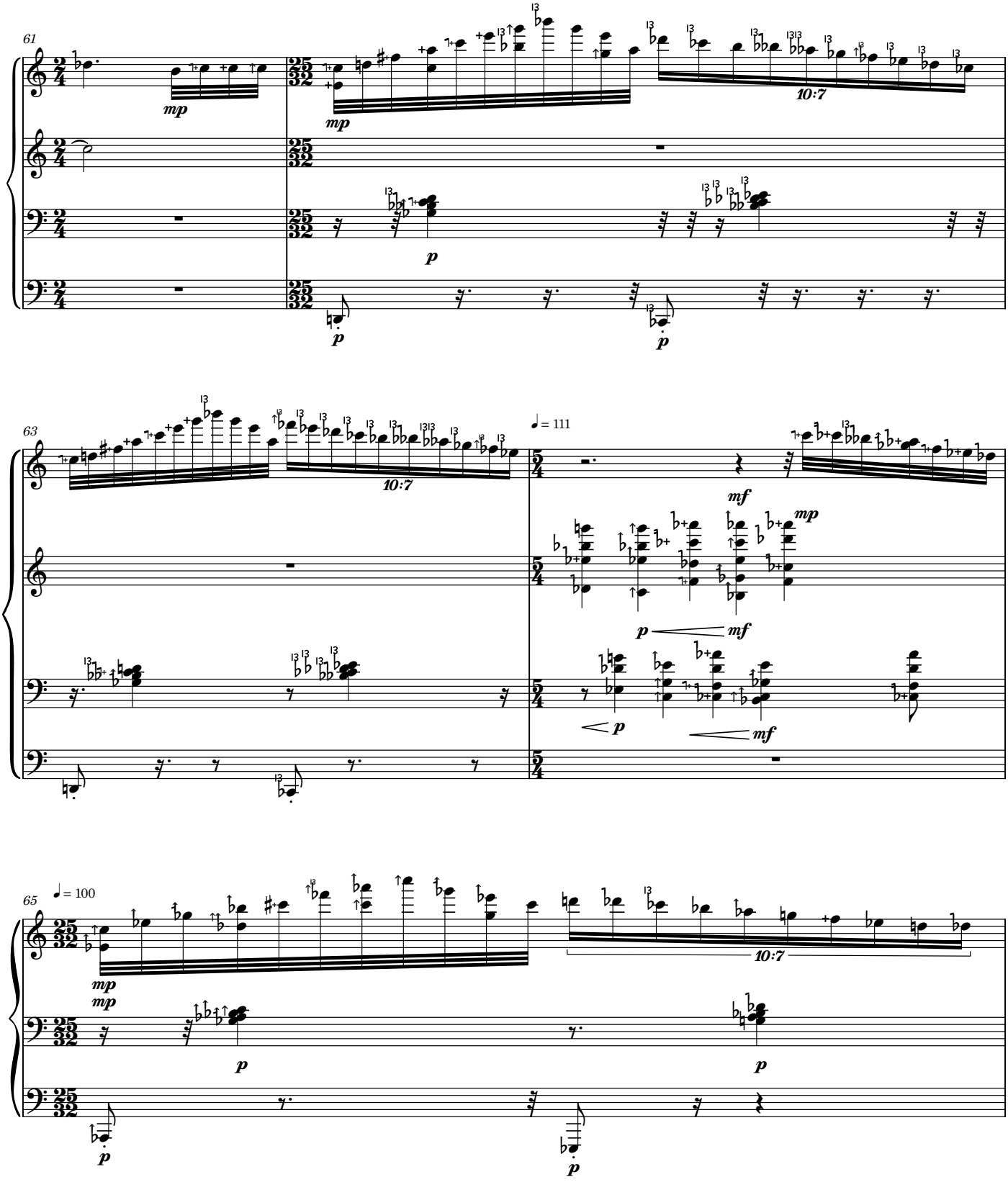

23
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31
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mf
pp
7
p
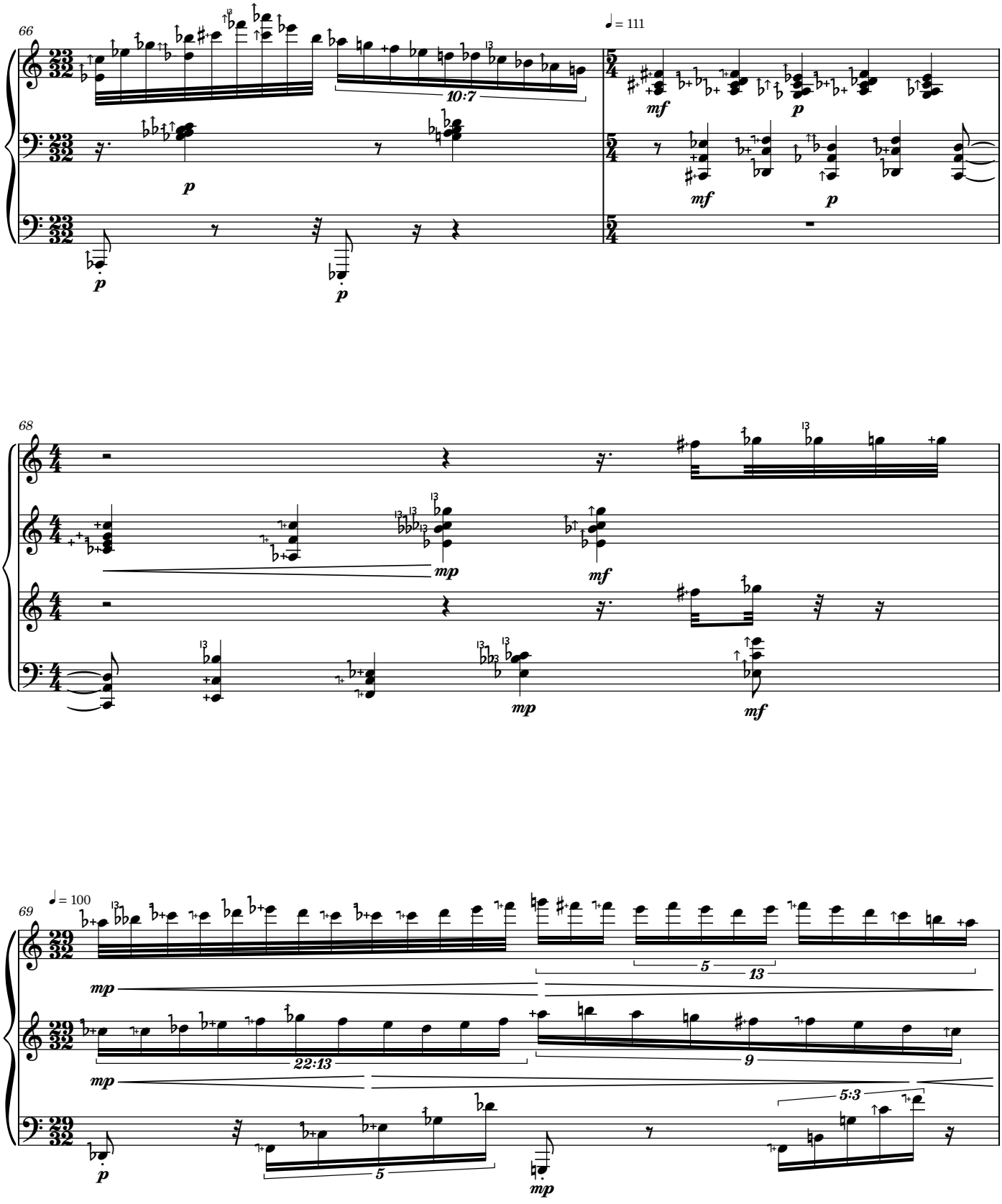

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mf

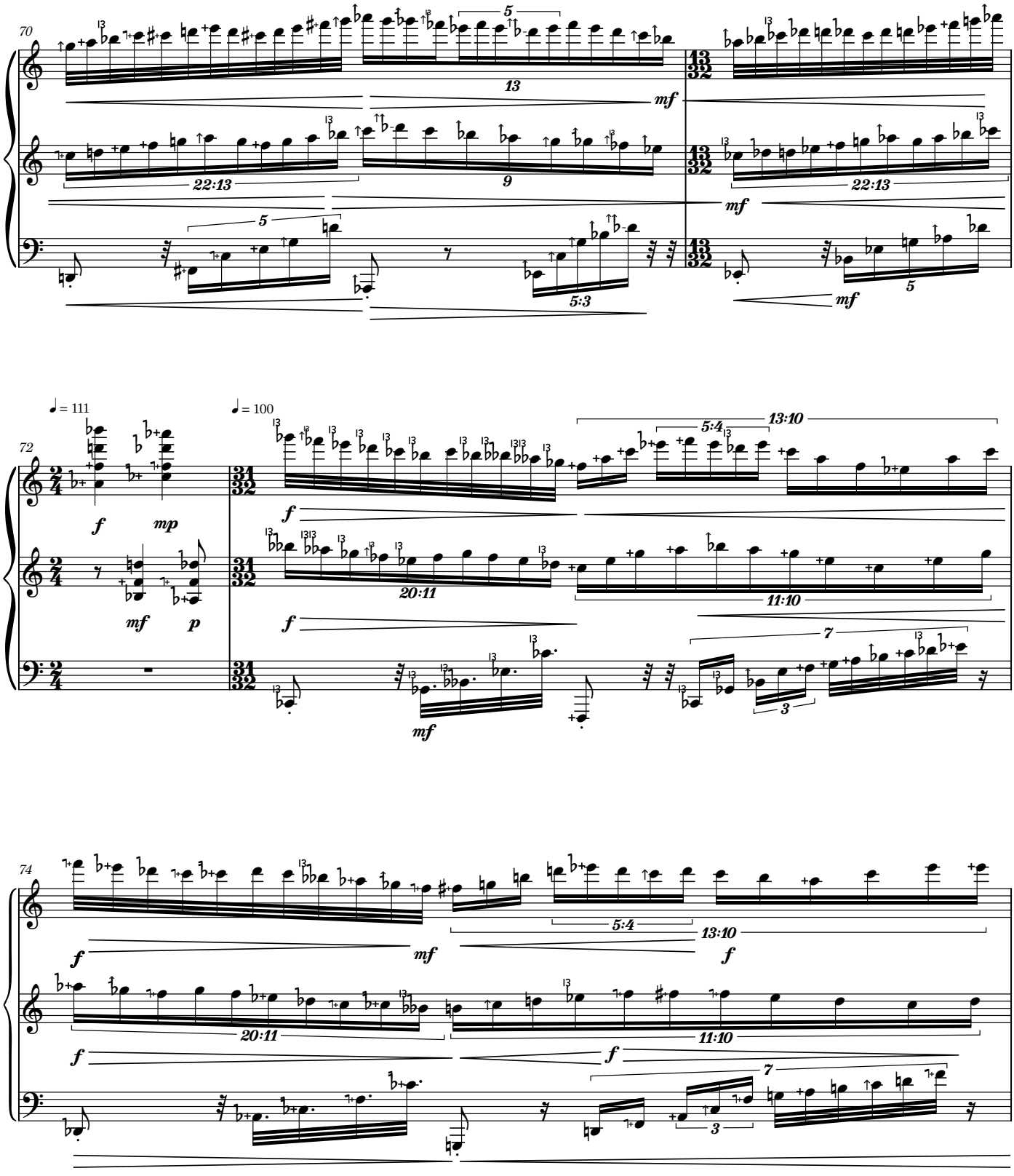

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44
15/32
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46
♩ = 100
22/32
mf
♩ = 38
rit.
48
10/32
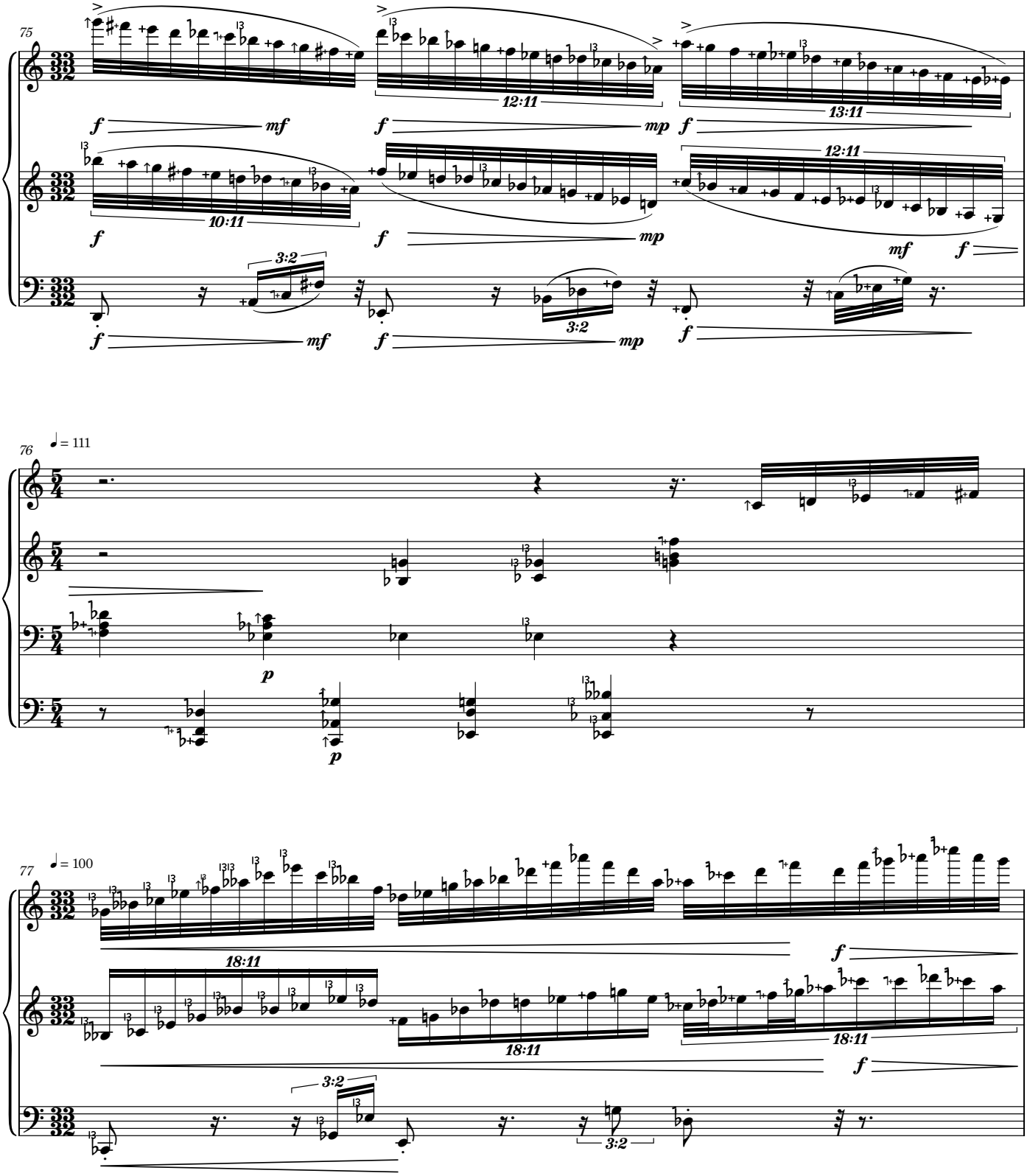

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54
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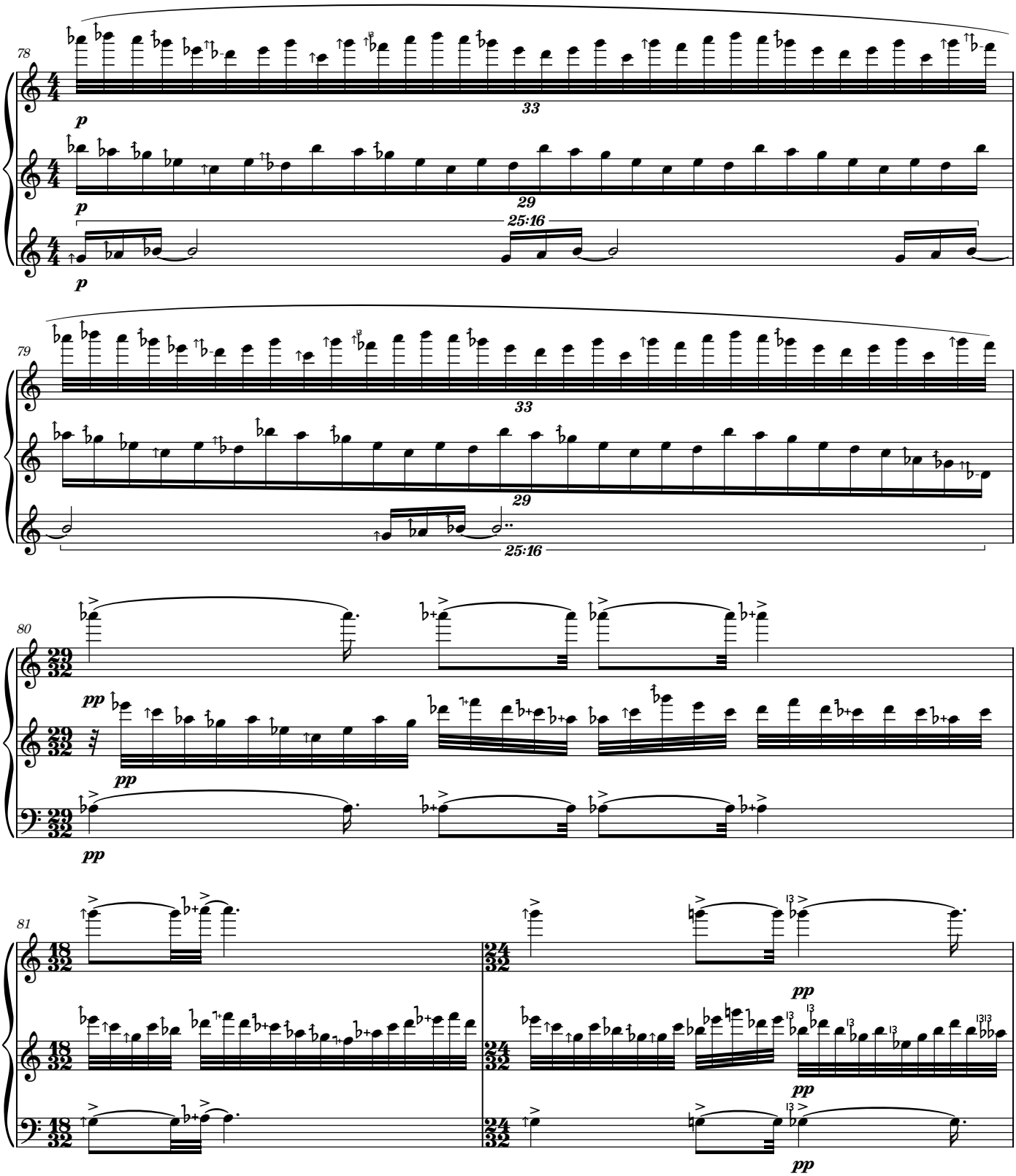

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59
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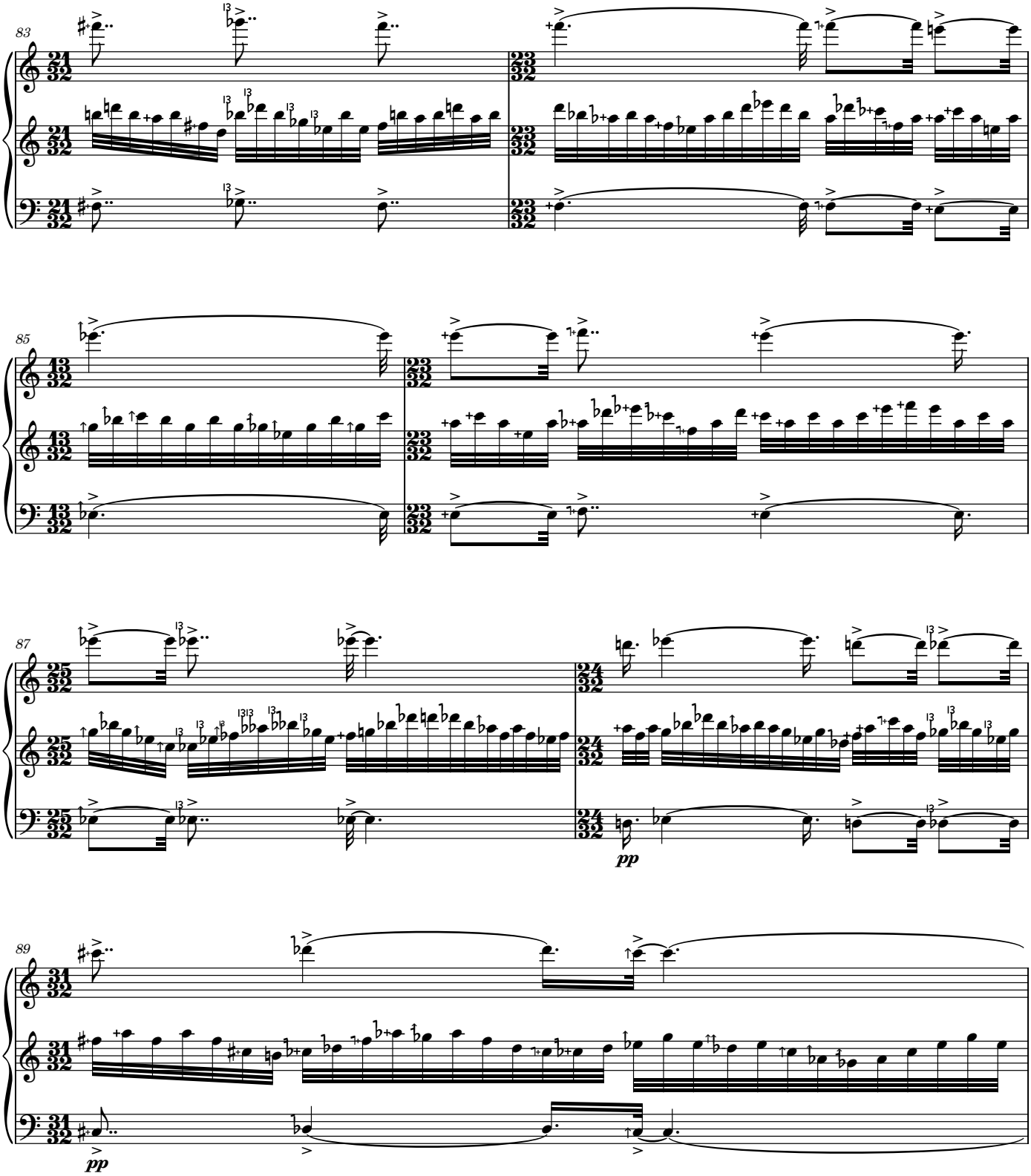

61
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mp
10:7
p
p
p
63
10:7
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mp
p
mf
p
mf
65
♩ = 100
mp
mp
10:7
p
p
p
p

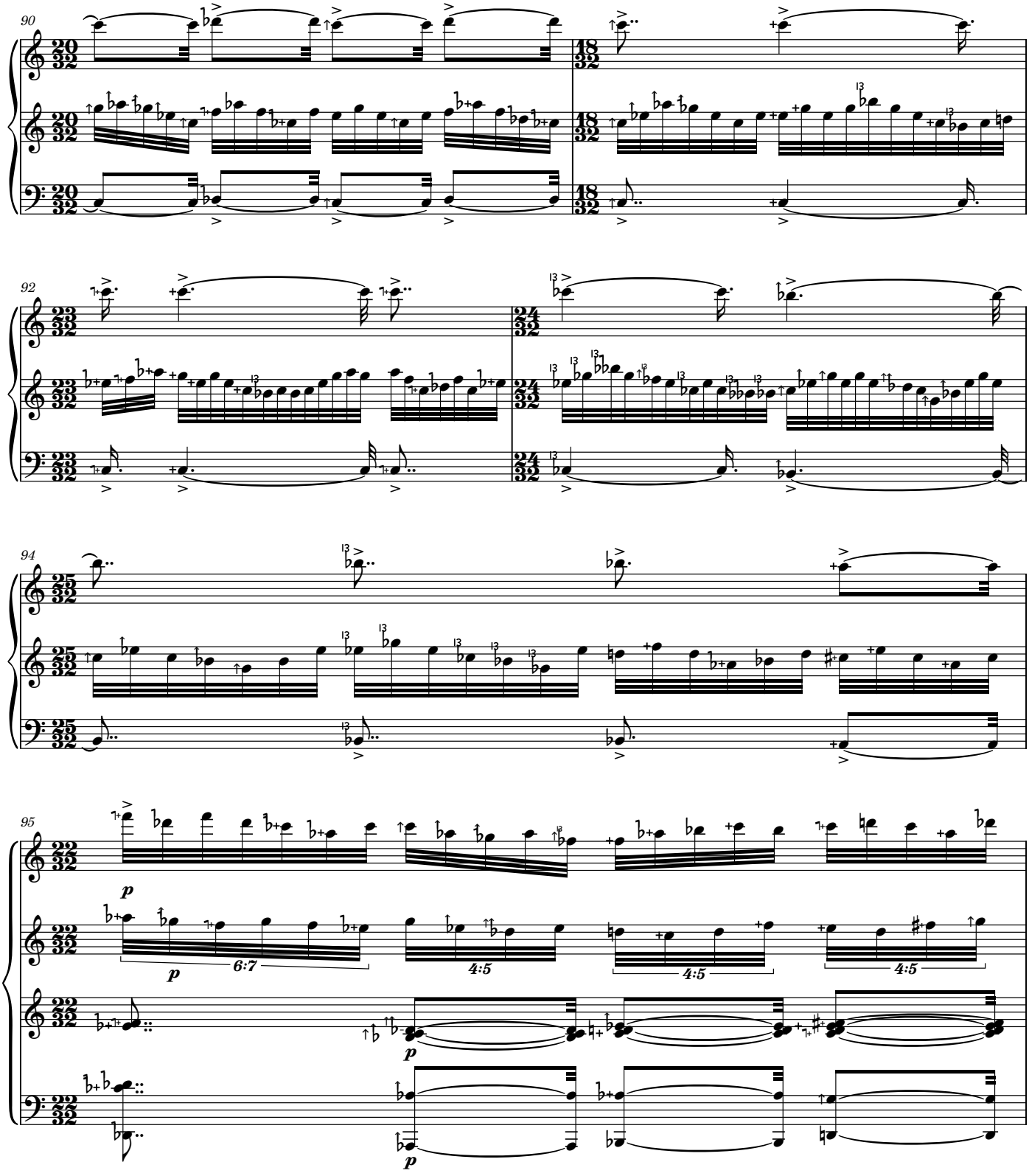

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68
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69
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22:13
9
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5

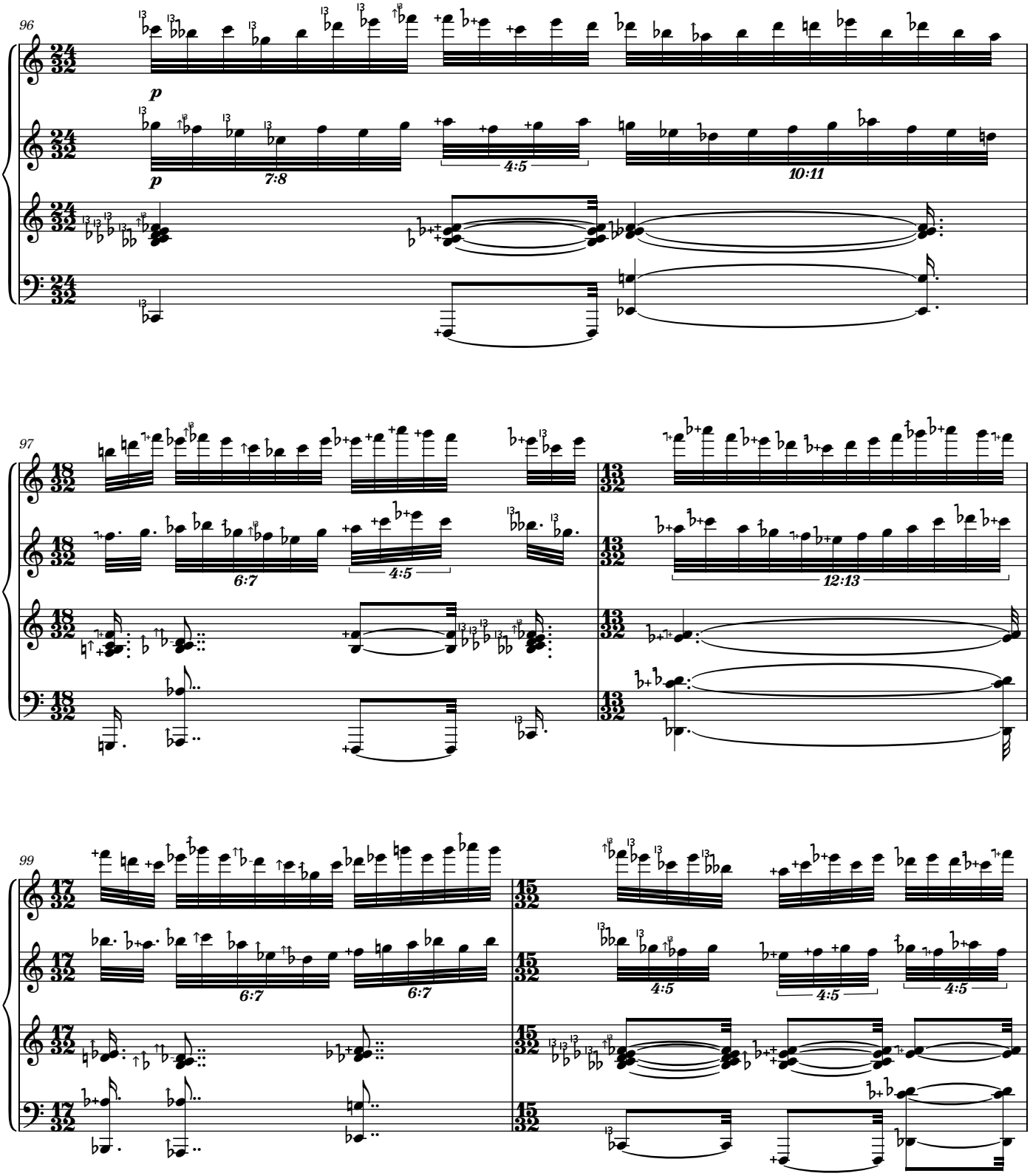

70
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13
mf
22:13
9
mf
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5:3
mf
5
72
♩ = 111
♩ = 100
f
mp
mf
p
5:4
13:10
f
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74
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f
20:11
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f
f
7
3

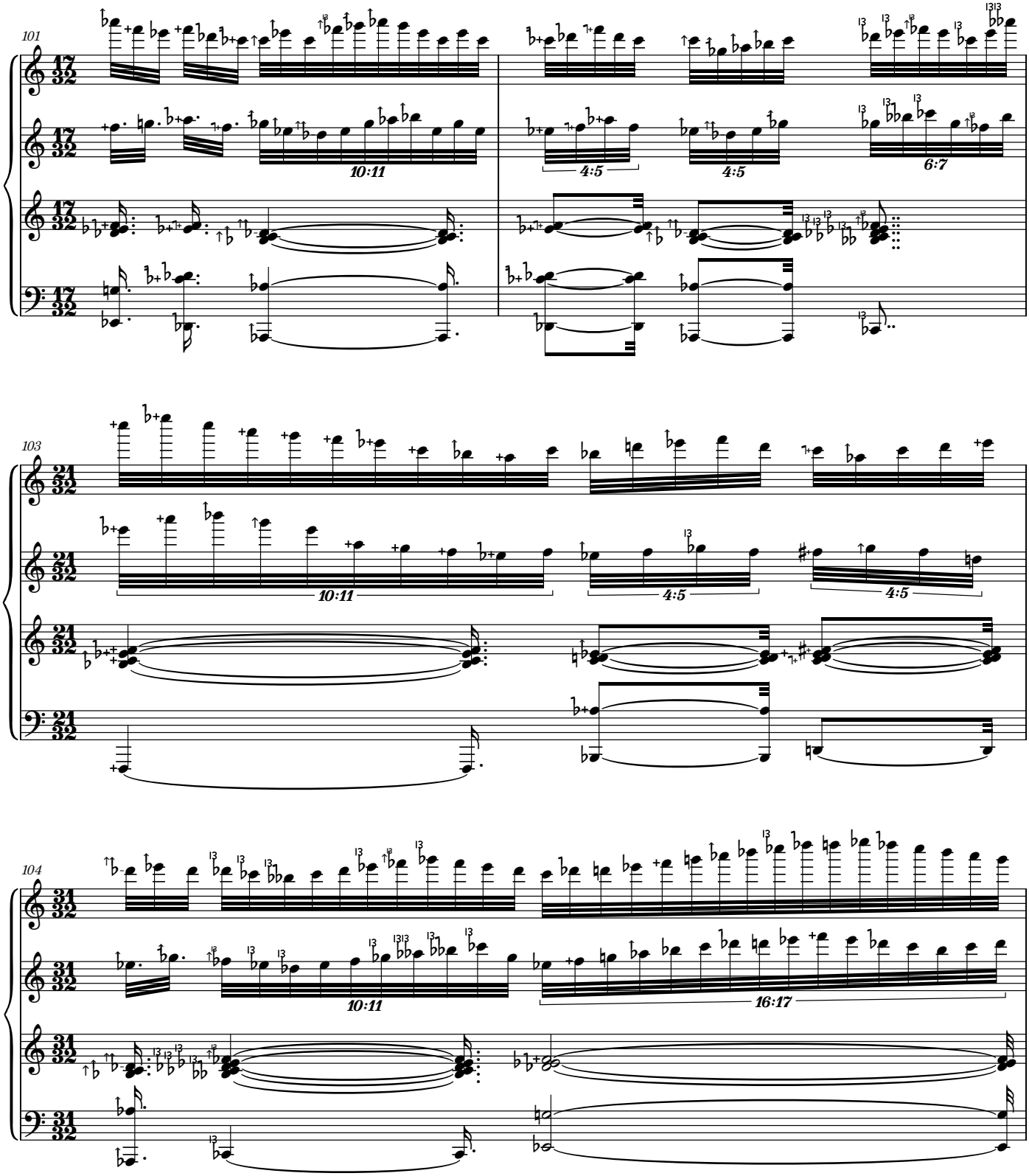

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76
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77
♩ = 100
18:11

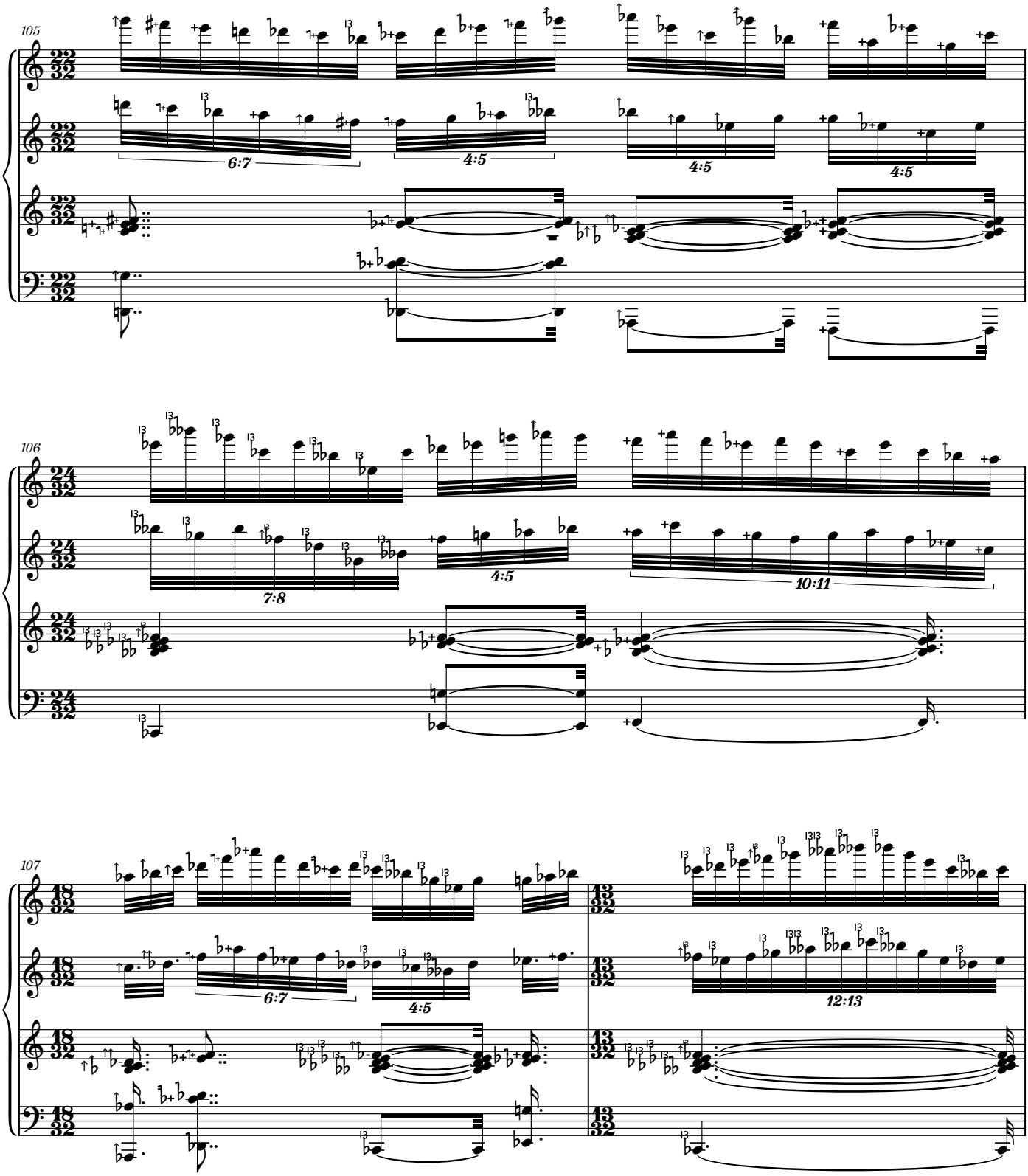

78
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33
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79
80
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81

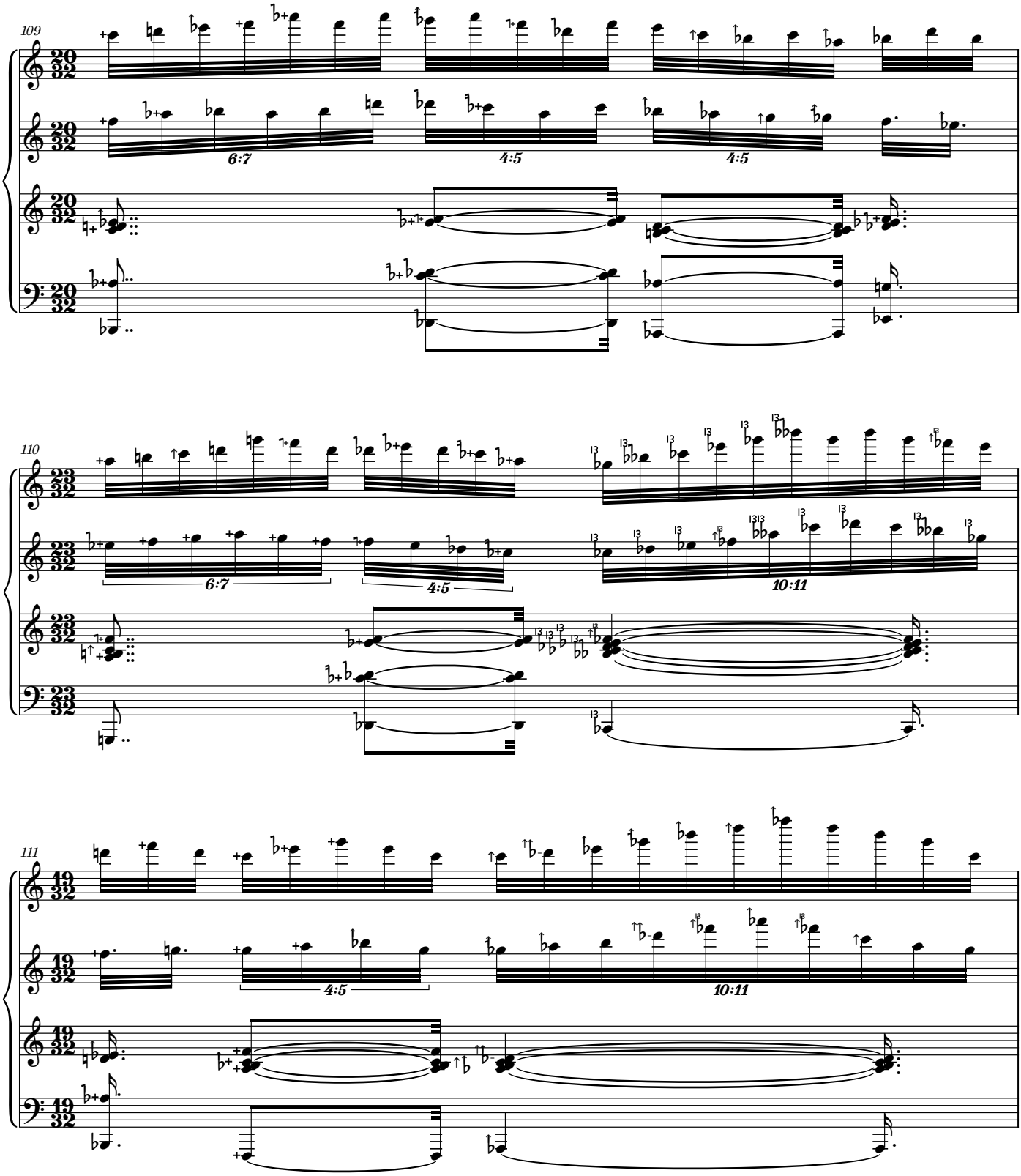

83
85
87
89
pp
pp

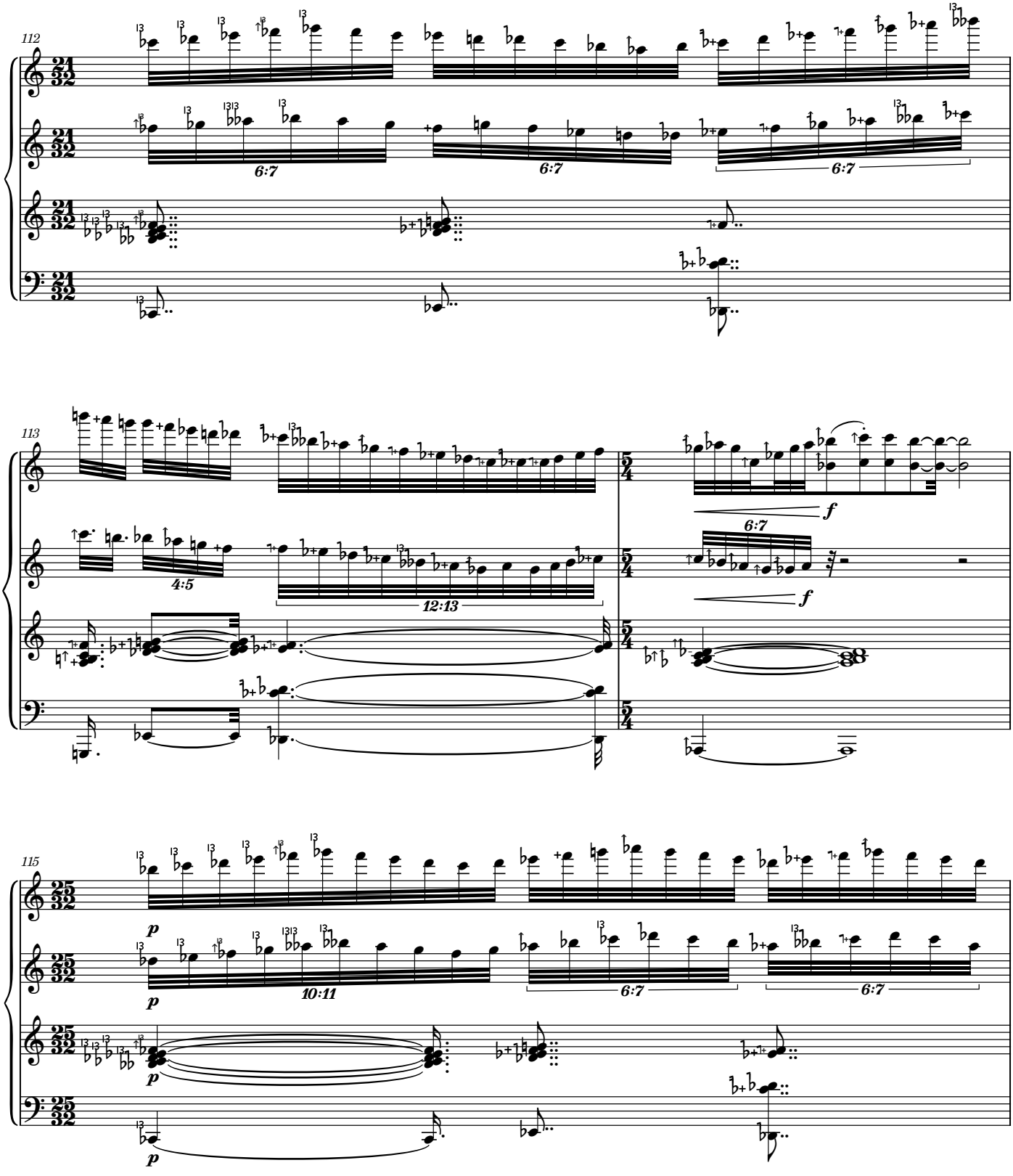

90
92
94
95
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6:7
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4:5
p
p

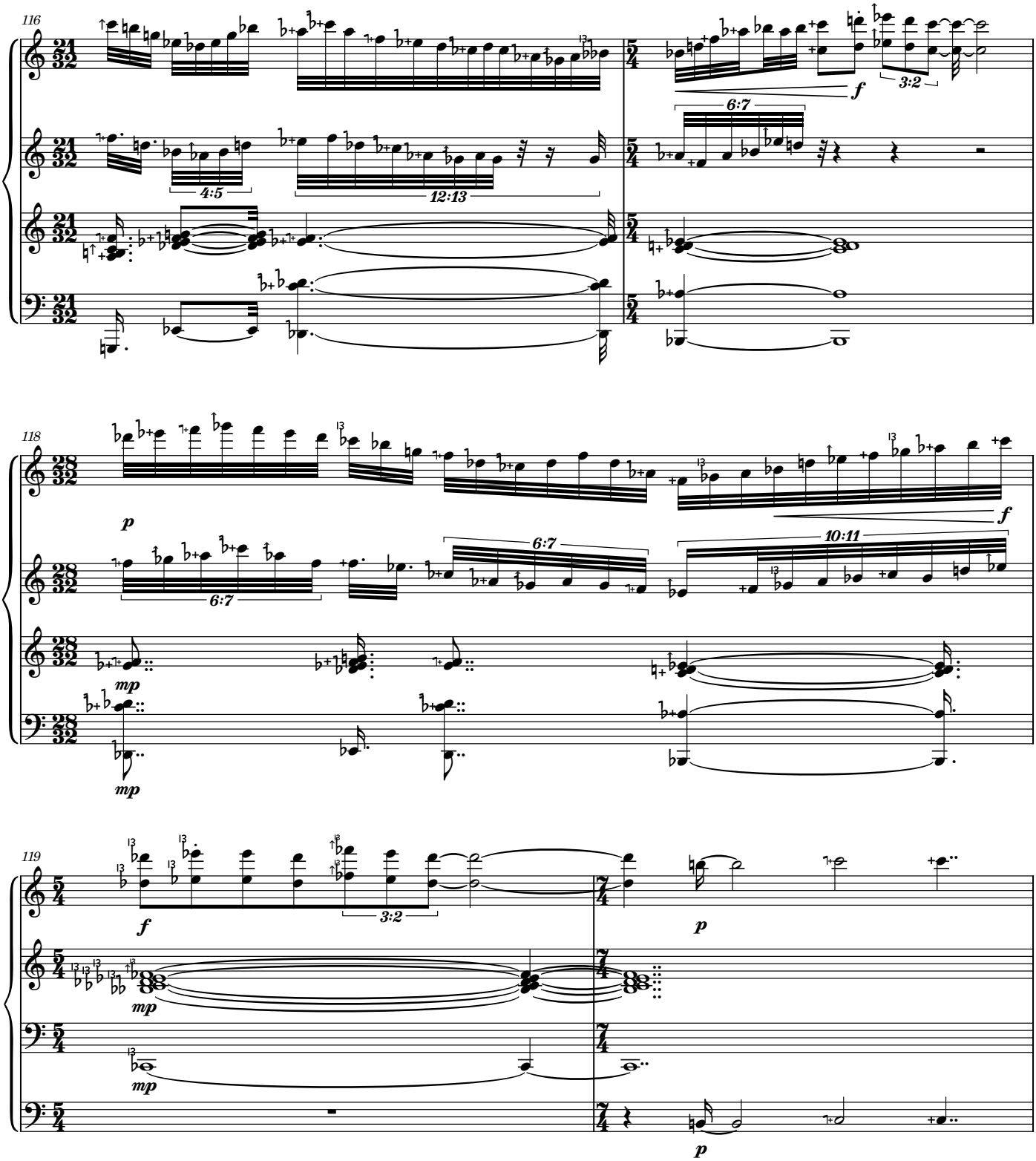

96
p
p
7:8
4:5
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97
6:7
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12:13
99
6:7
6:7
4:5
4:5
4:5

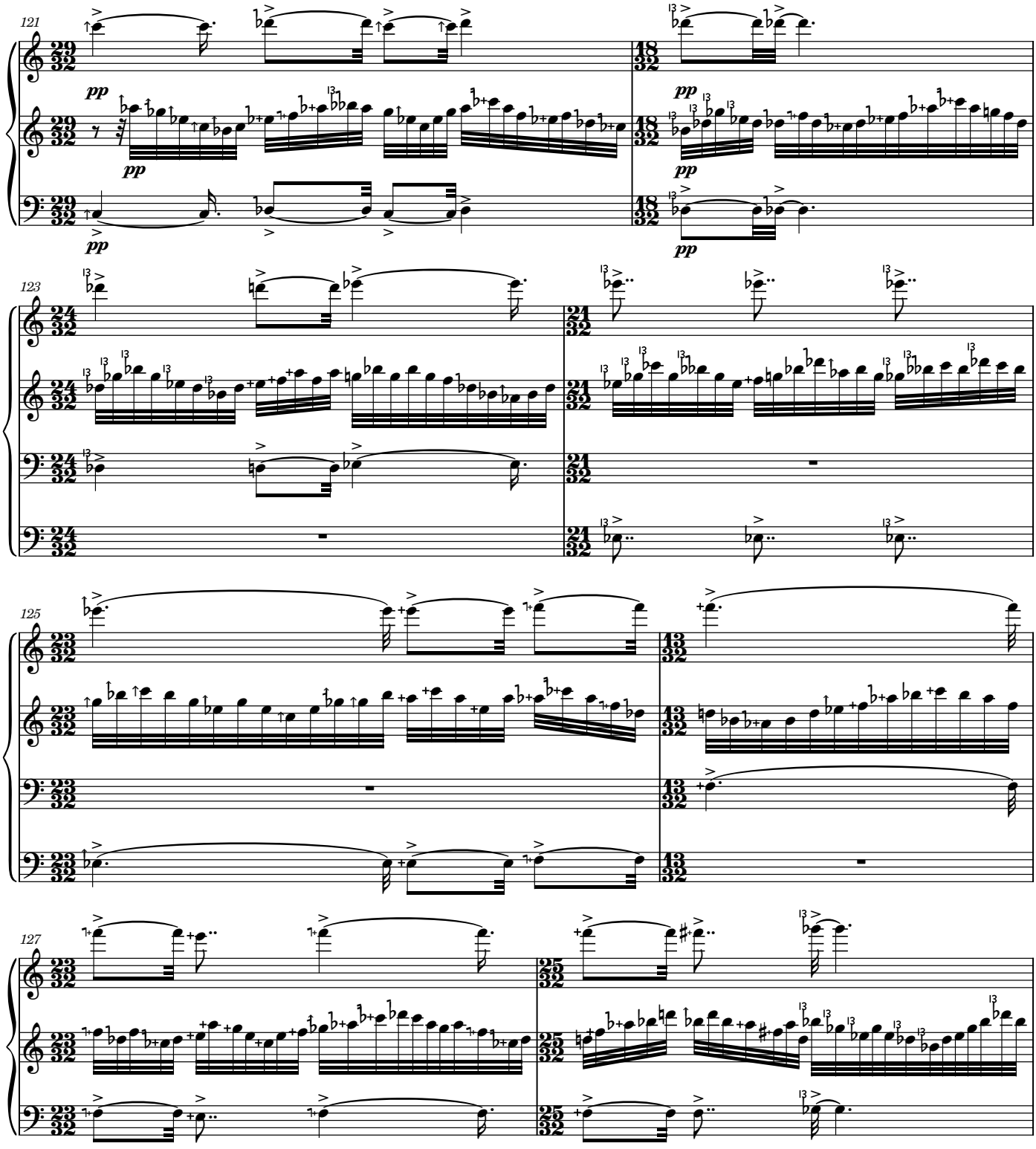

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4:5
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103
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4:5
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104
10:11
16:17

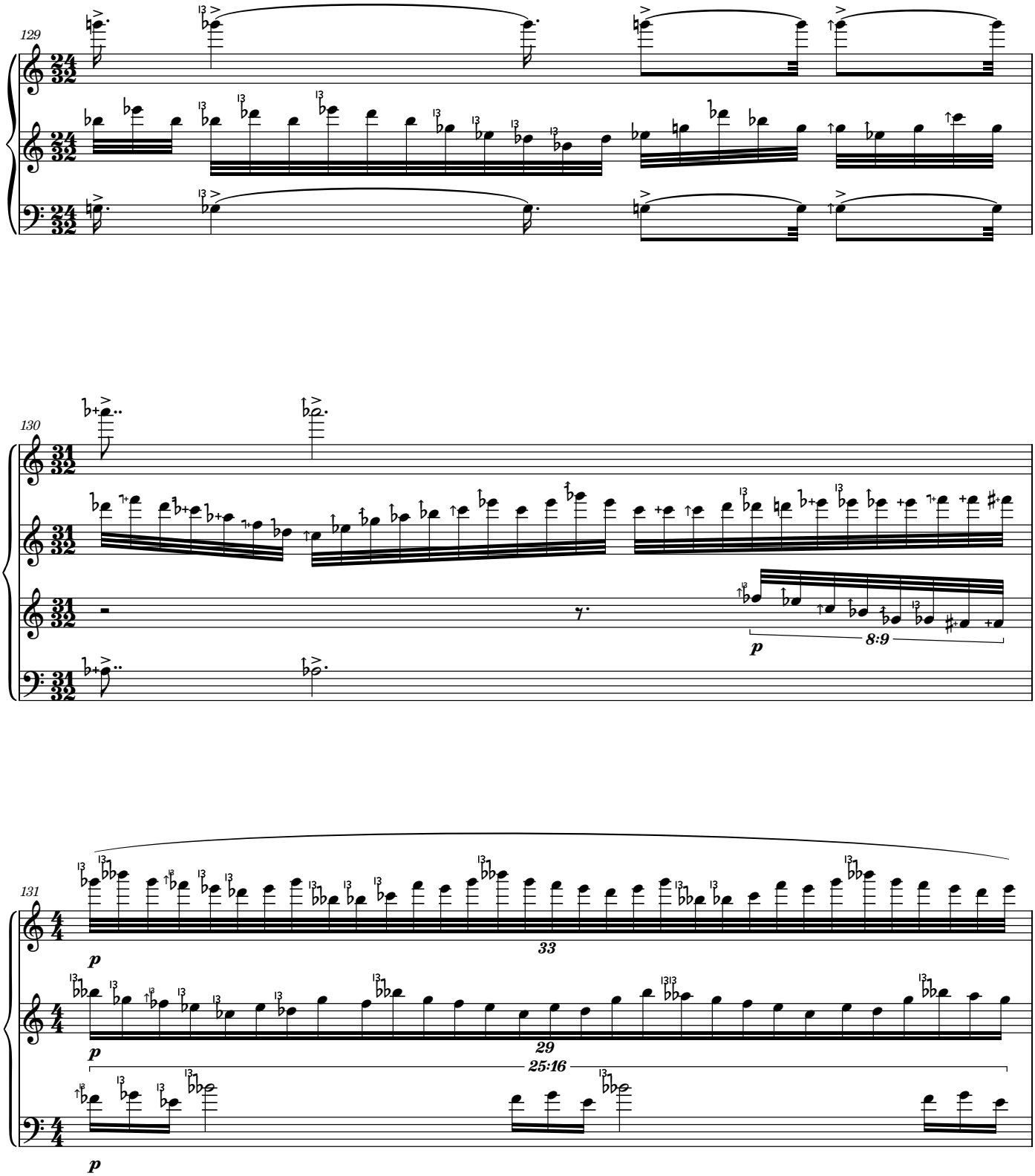

105
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4:5
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7:8
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10:11
107
6:7
4:5
12:13

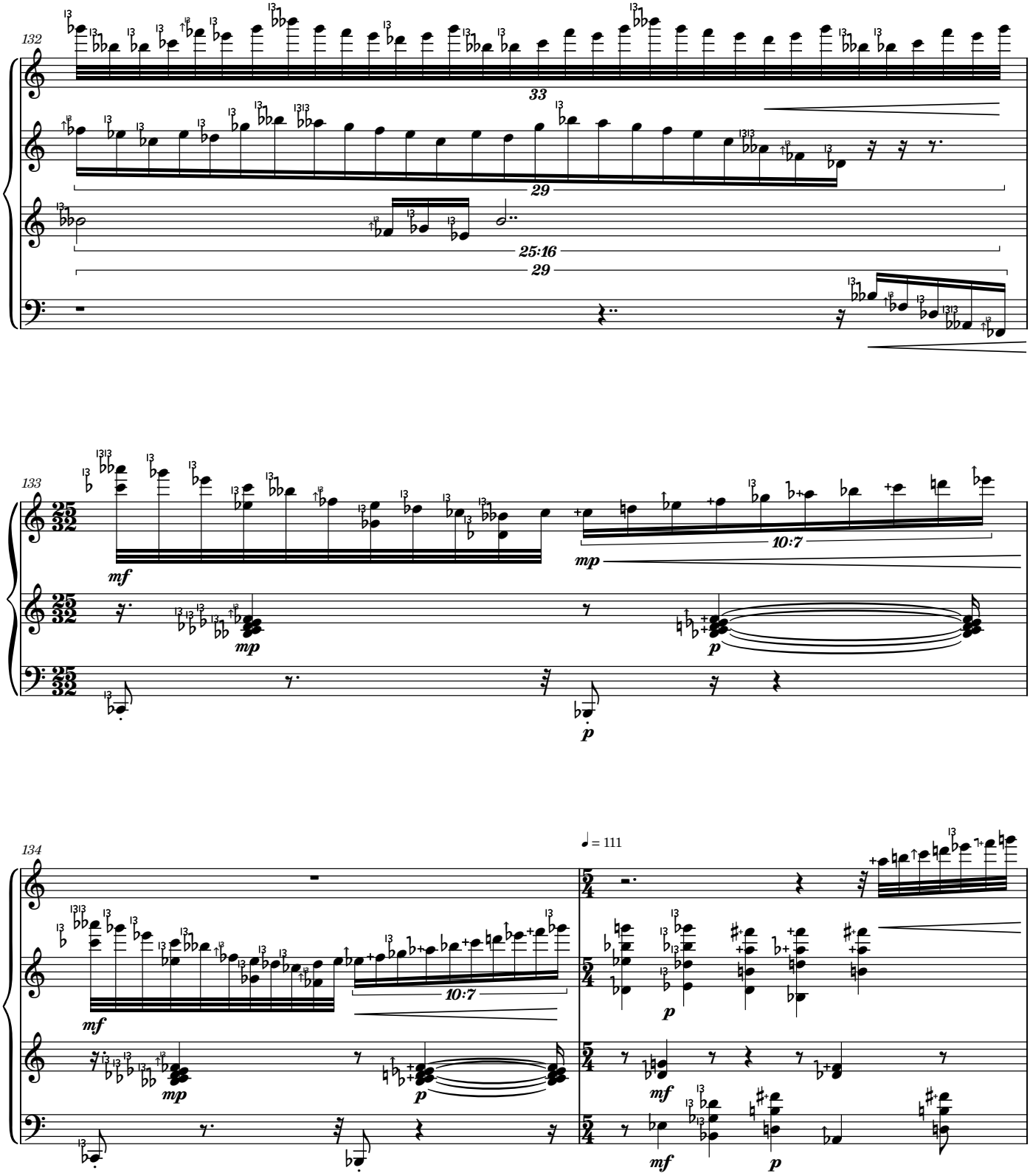

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6:7
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4:5
110
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4:5
10:11
111
4:5
10:11
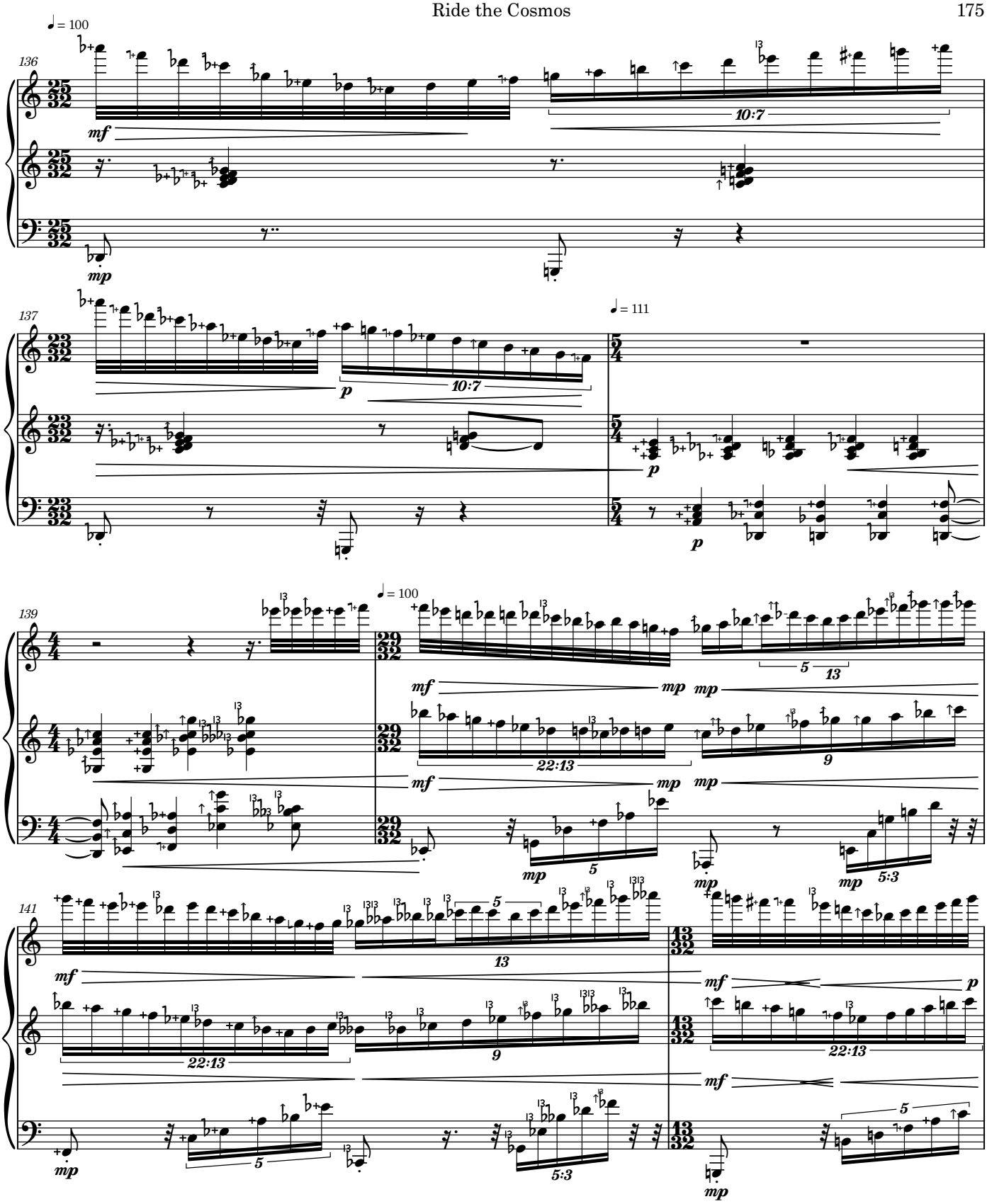

112
6:7
6:7
6:7
113
4:5
12:13
6:7
f
f
115
p
p
10:11
6:7
6:7
p
p

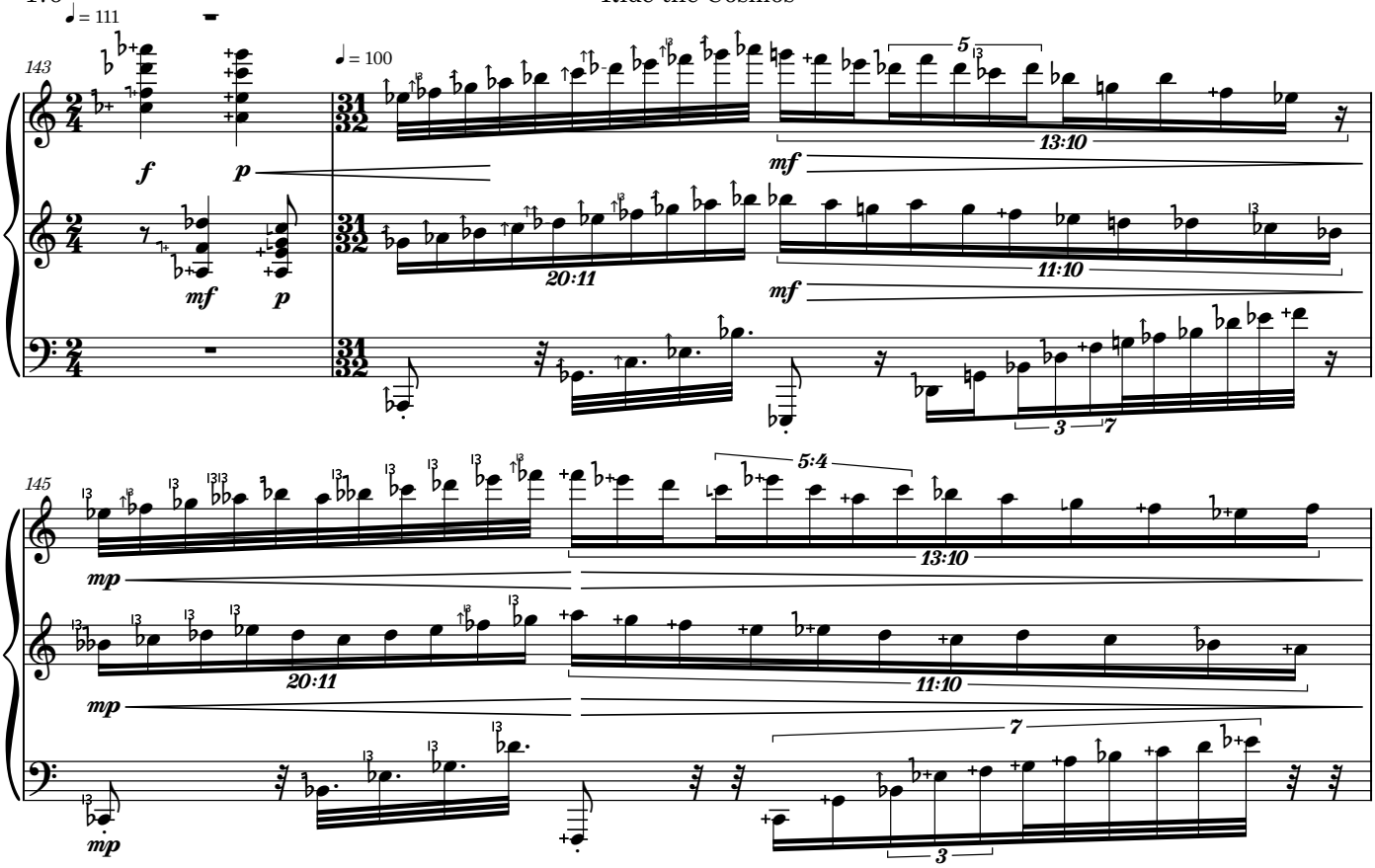

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6:7
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119
3:2
mp
p

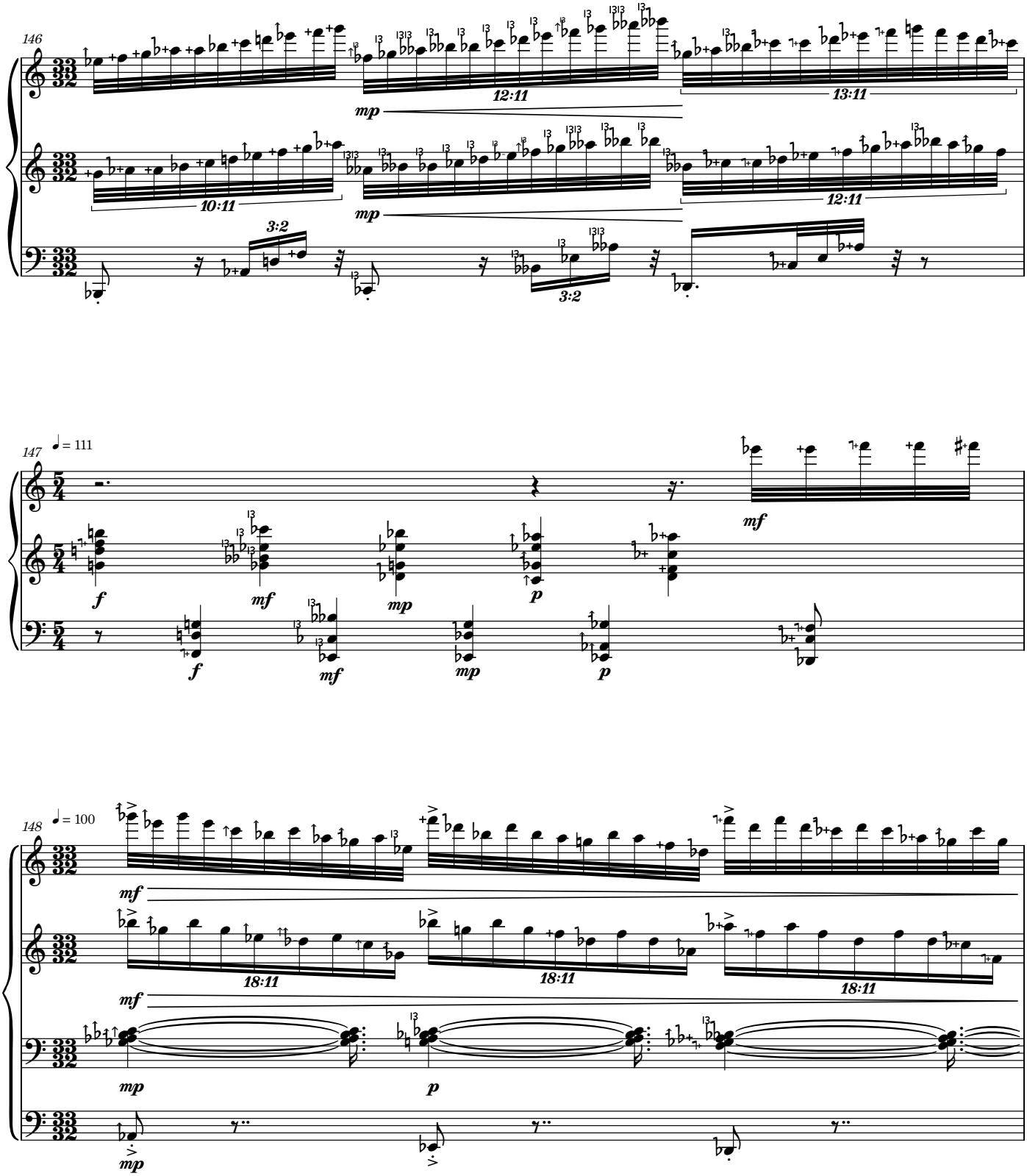

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125
127
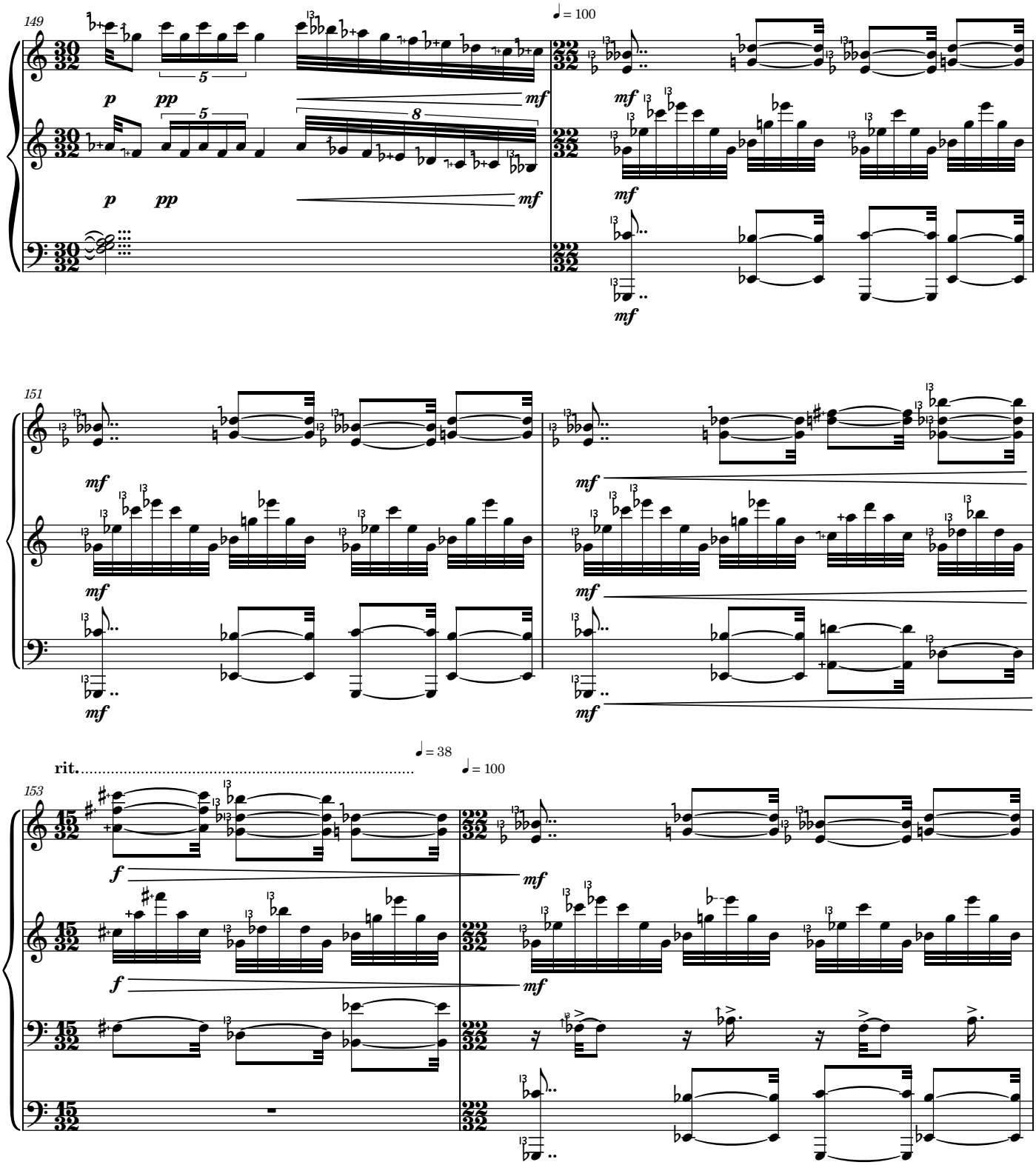

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25:16

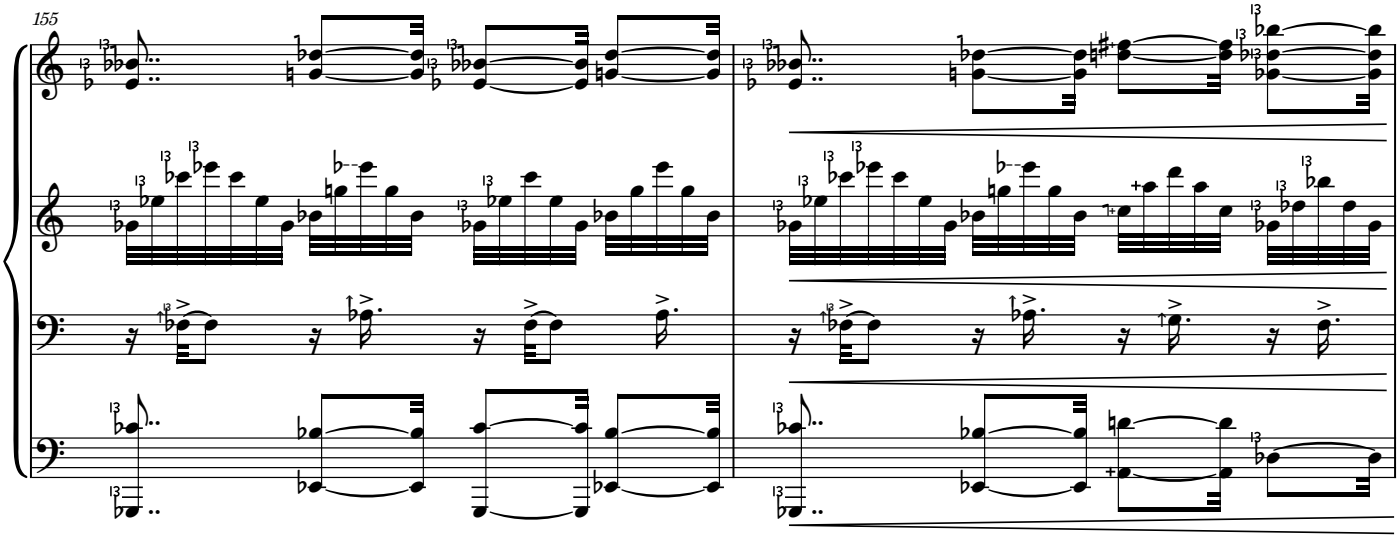

132
33
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25:16
29
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10:7
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134
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mf
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10:7
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p
mf
mf
p

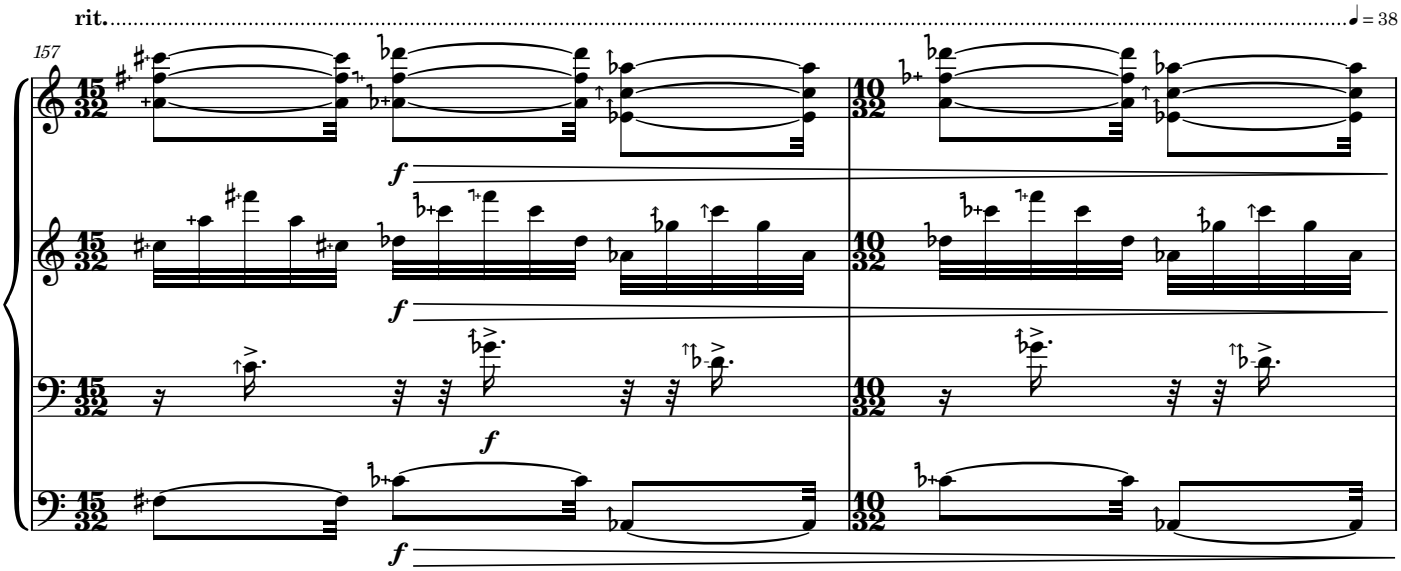

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136
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139
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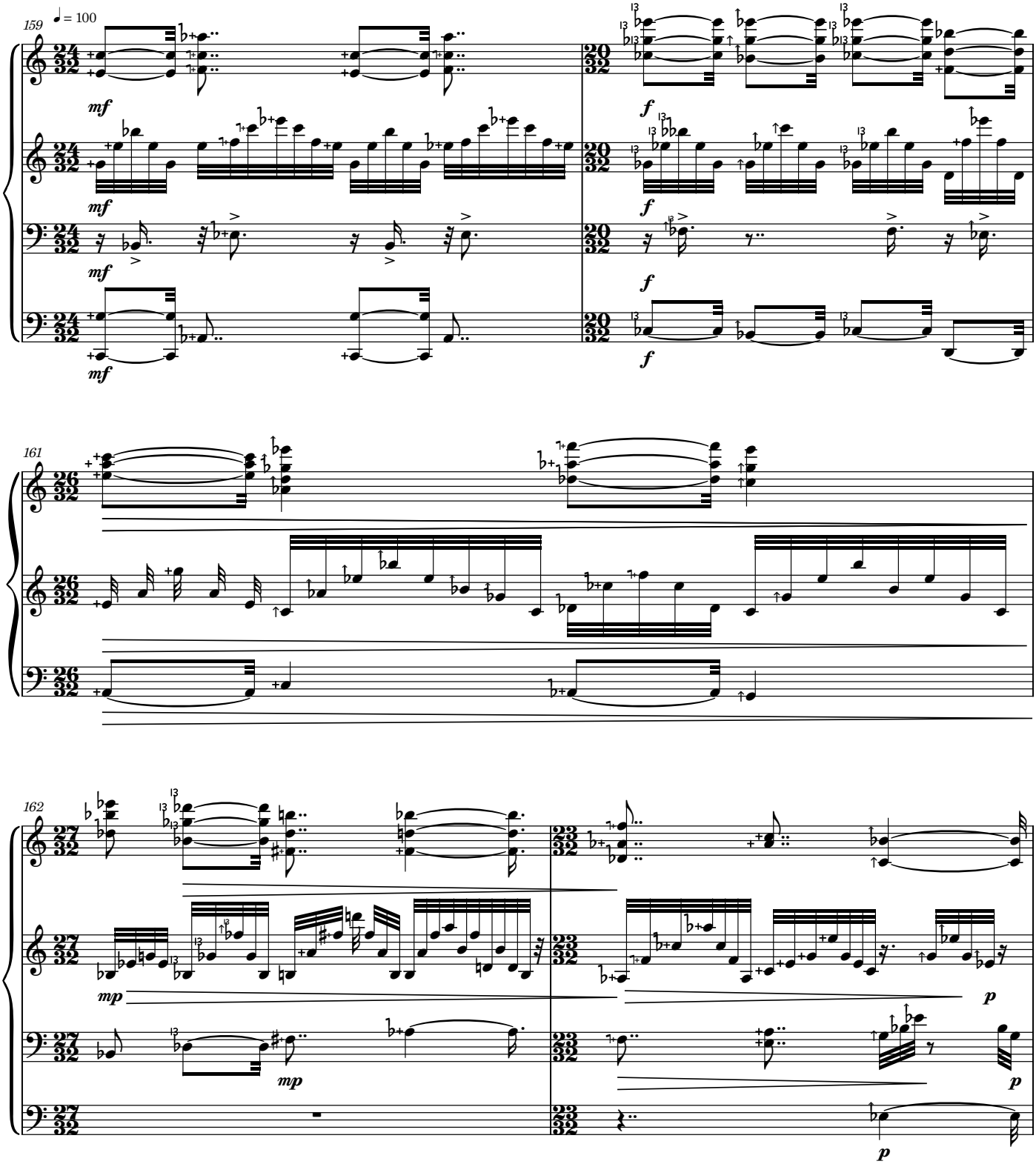

♩ = 111
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♩ = 100
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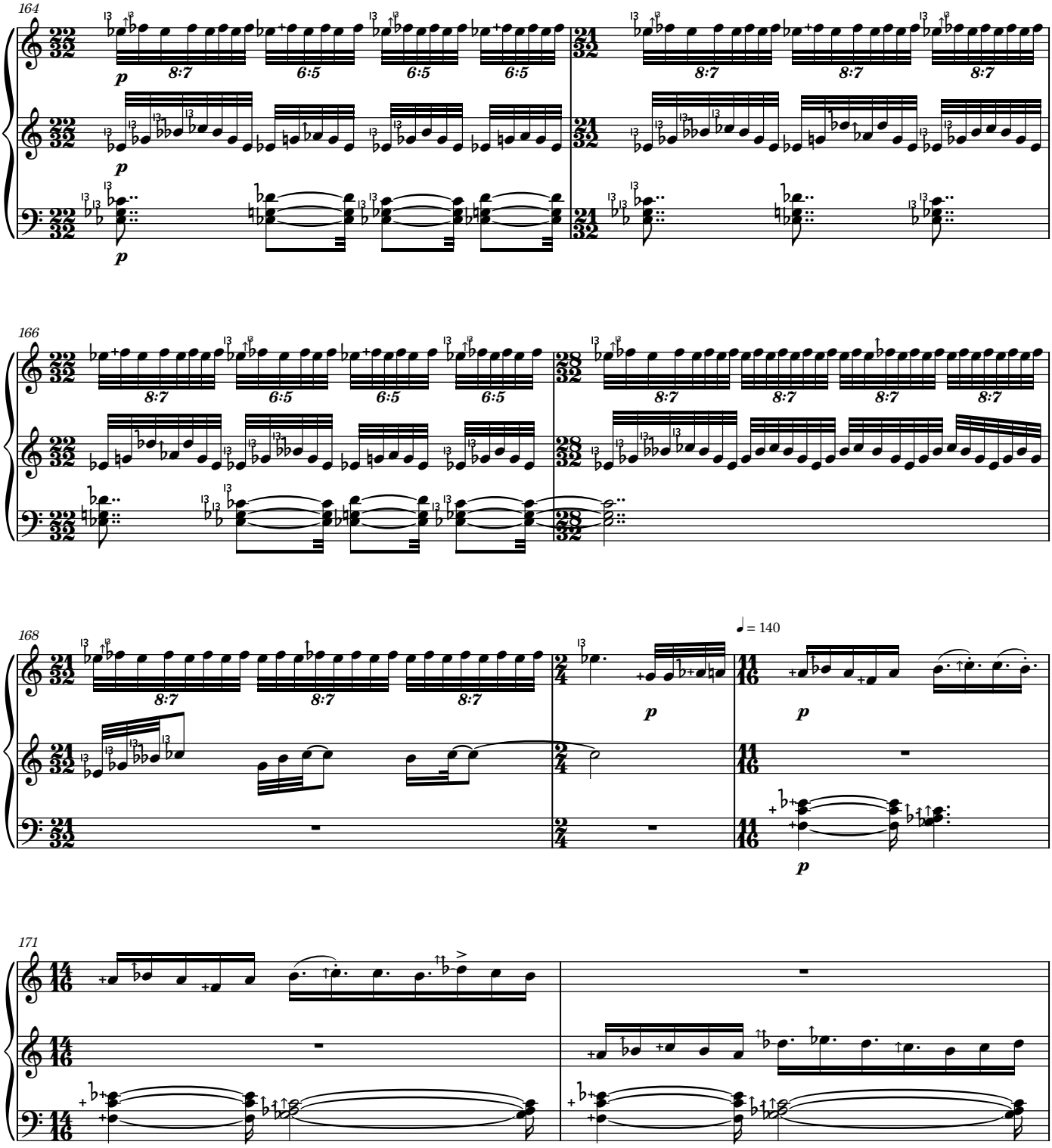

146
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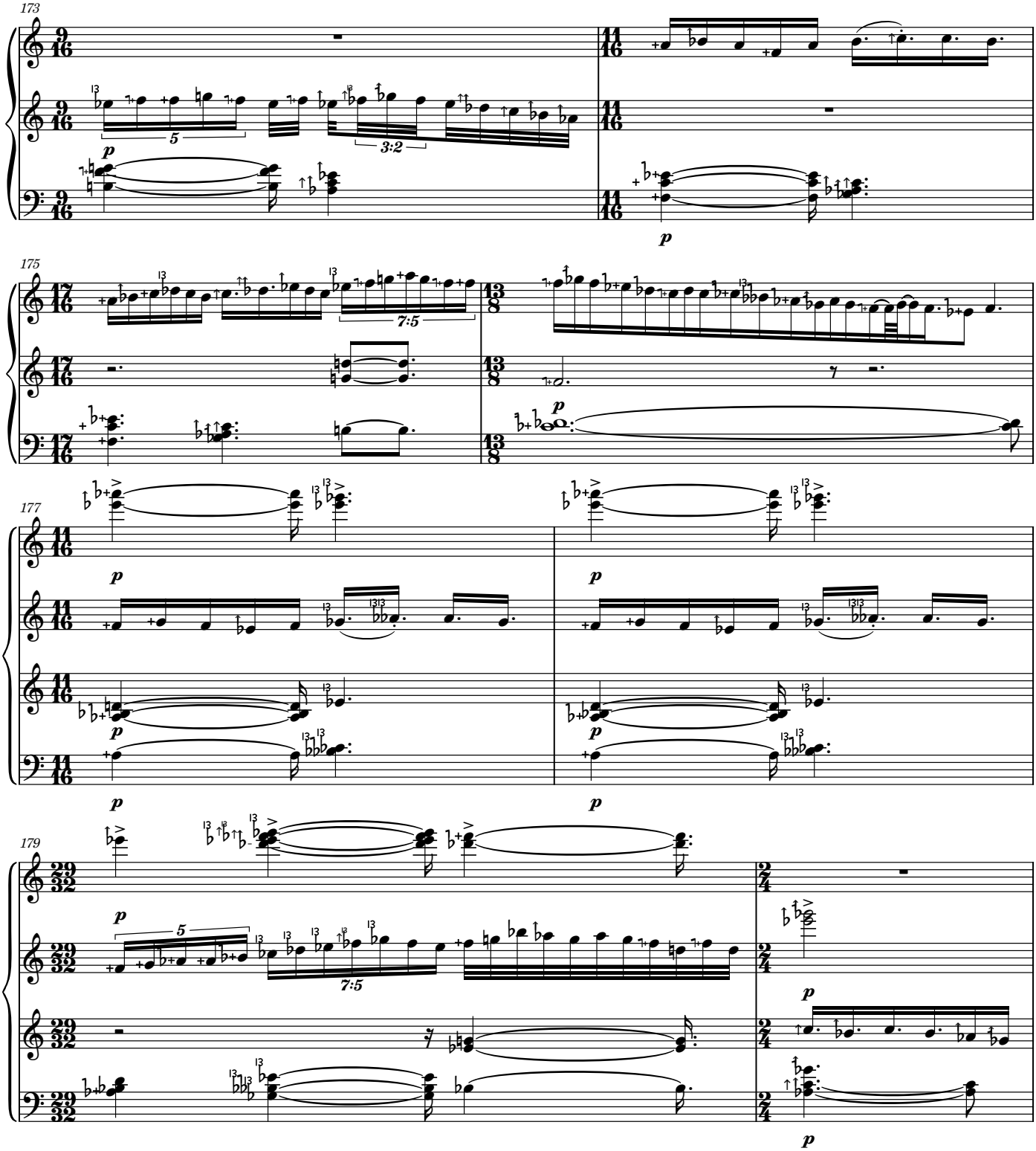

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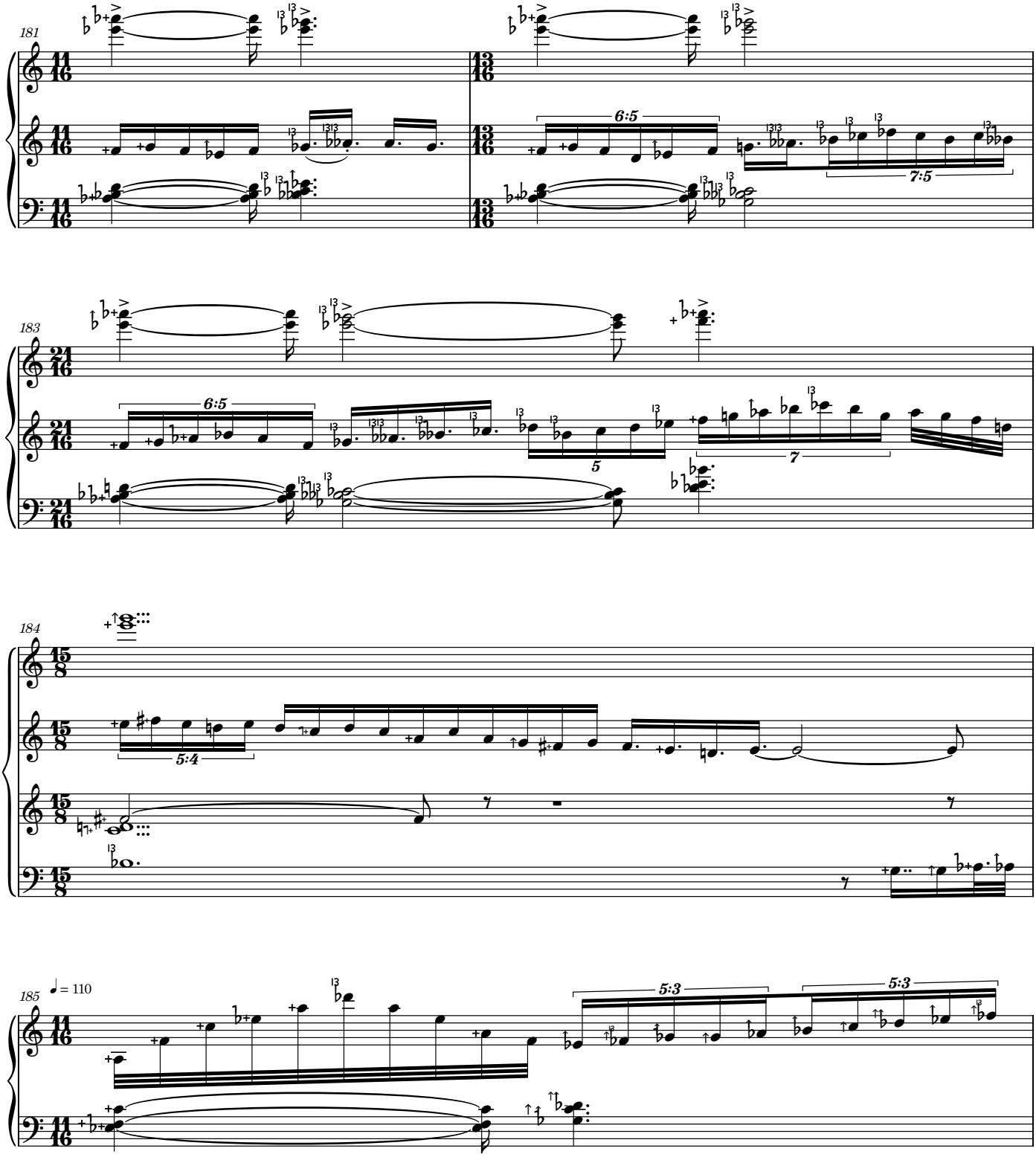

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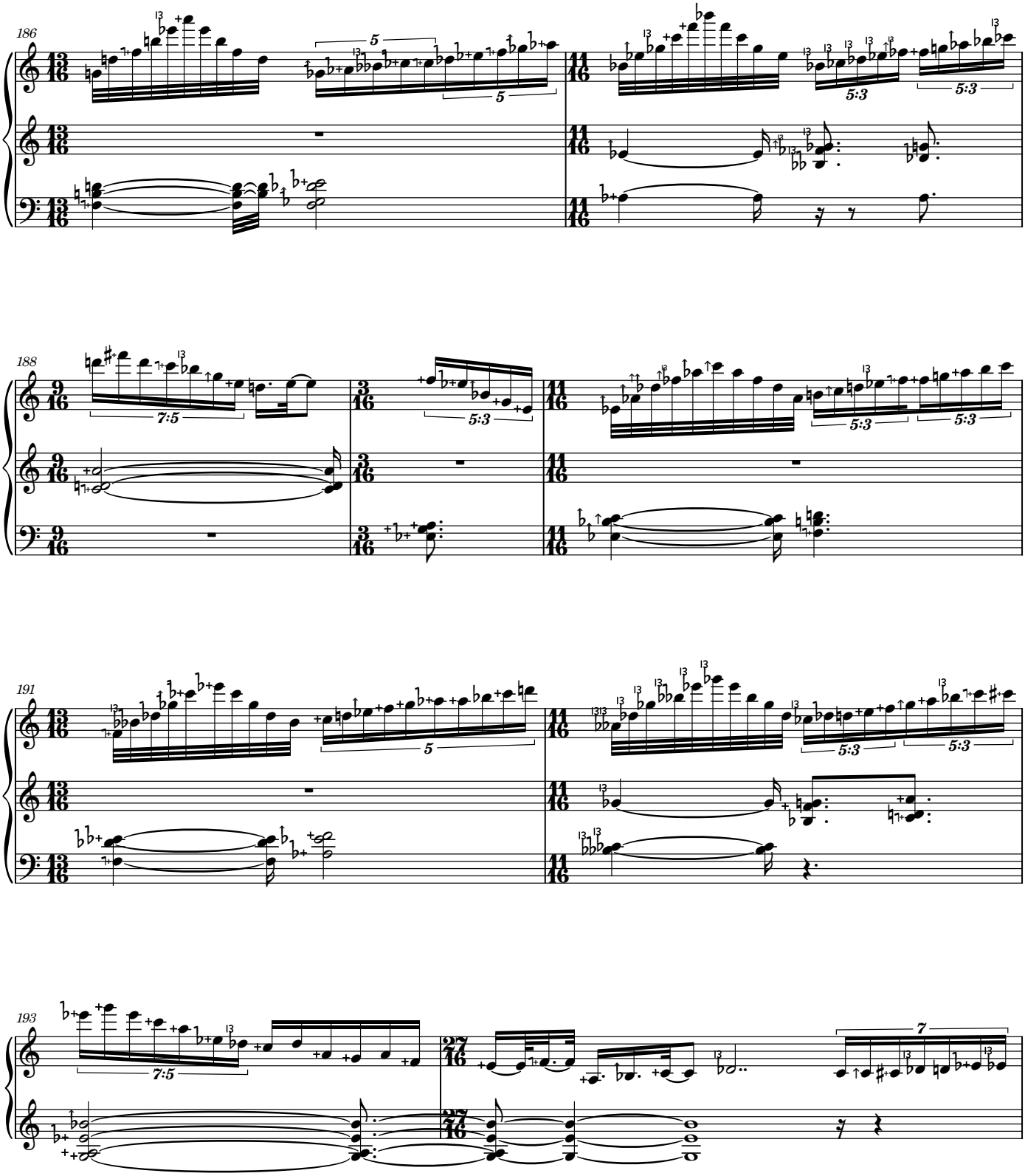

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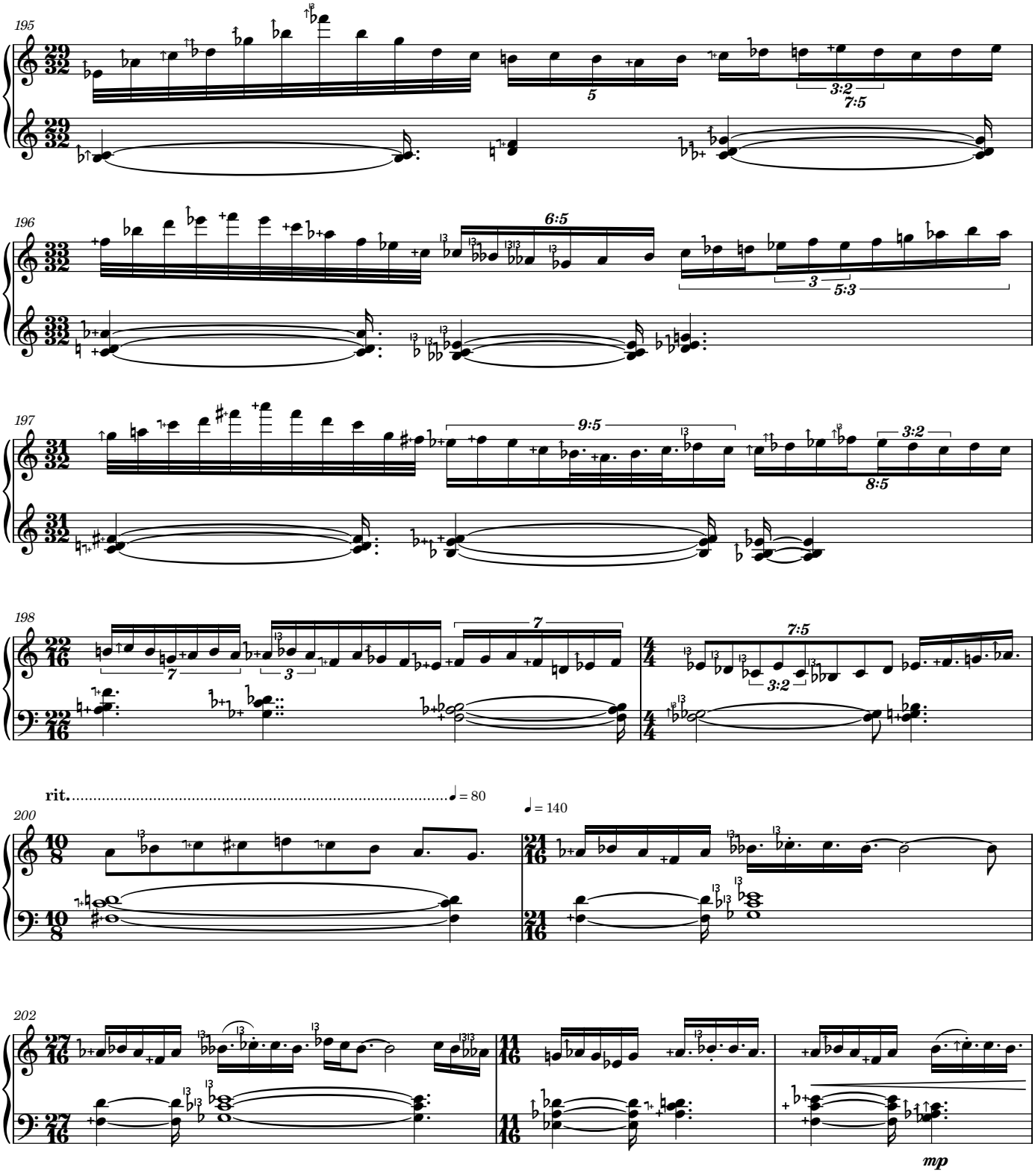

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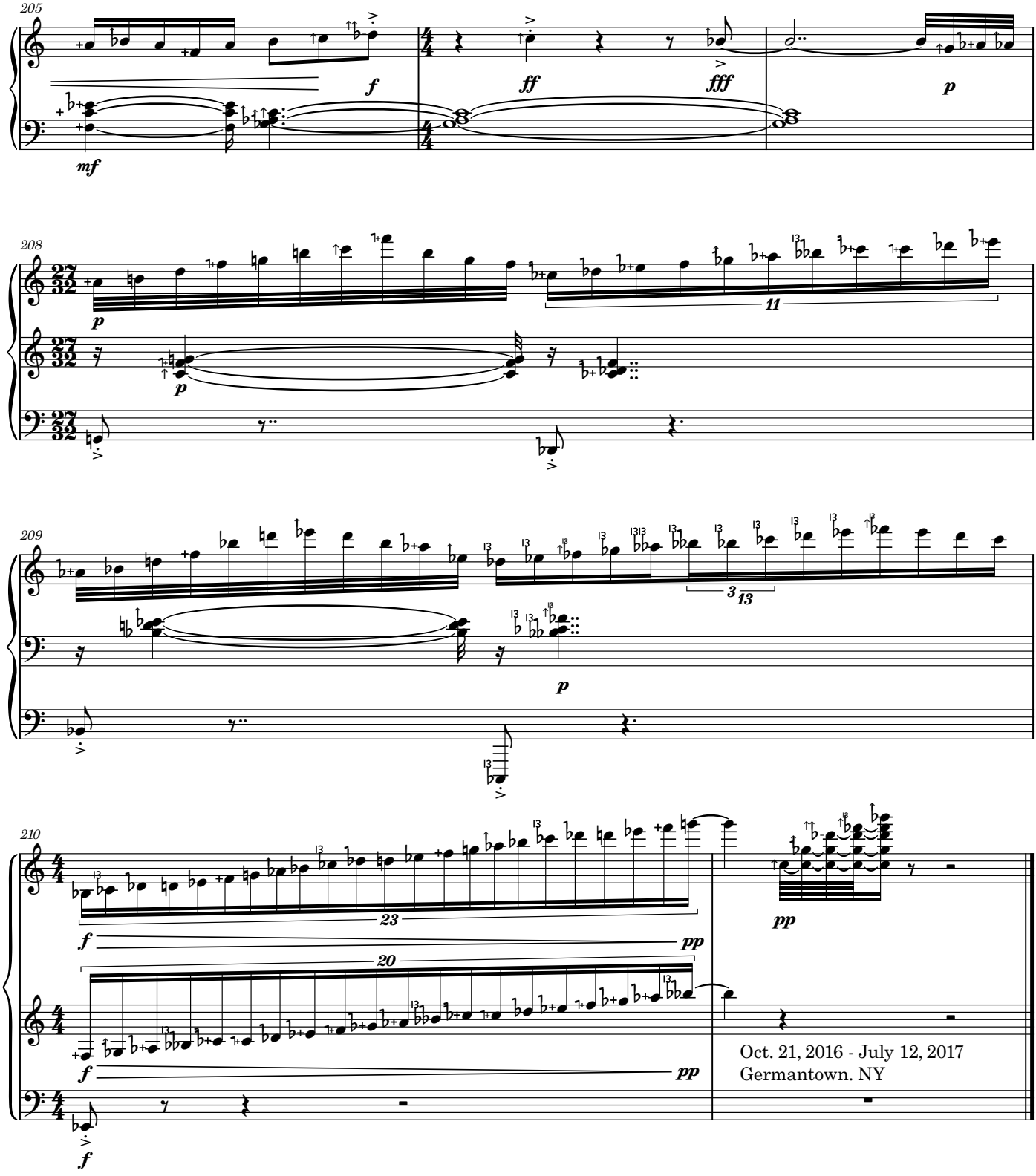

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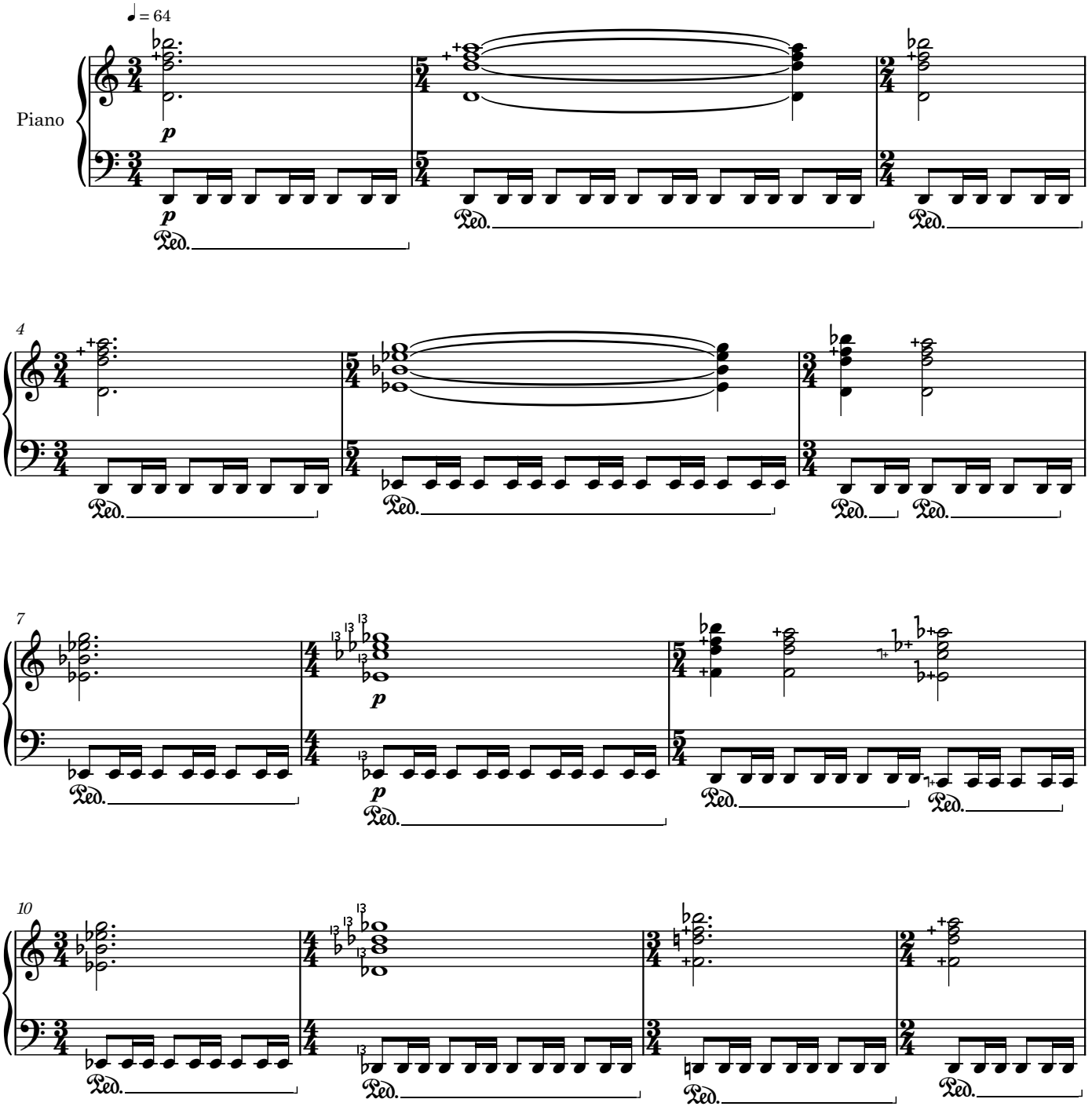

186
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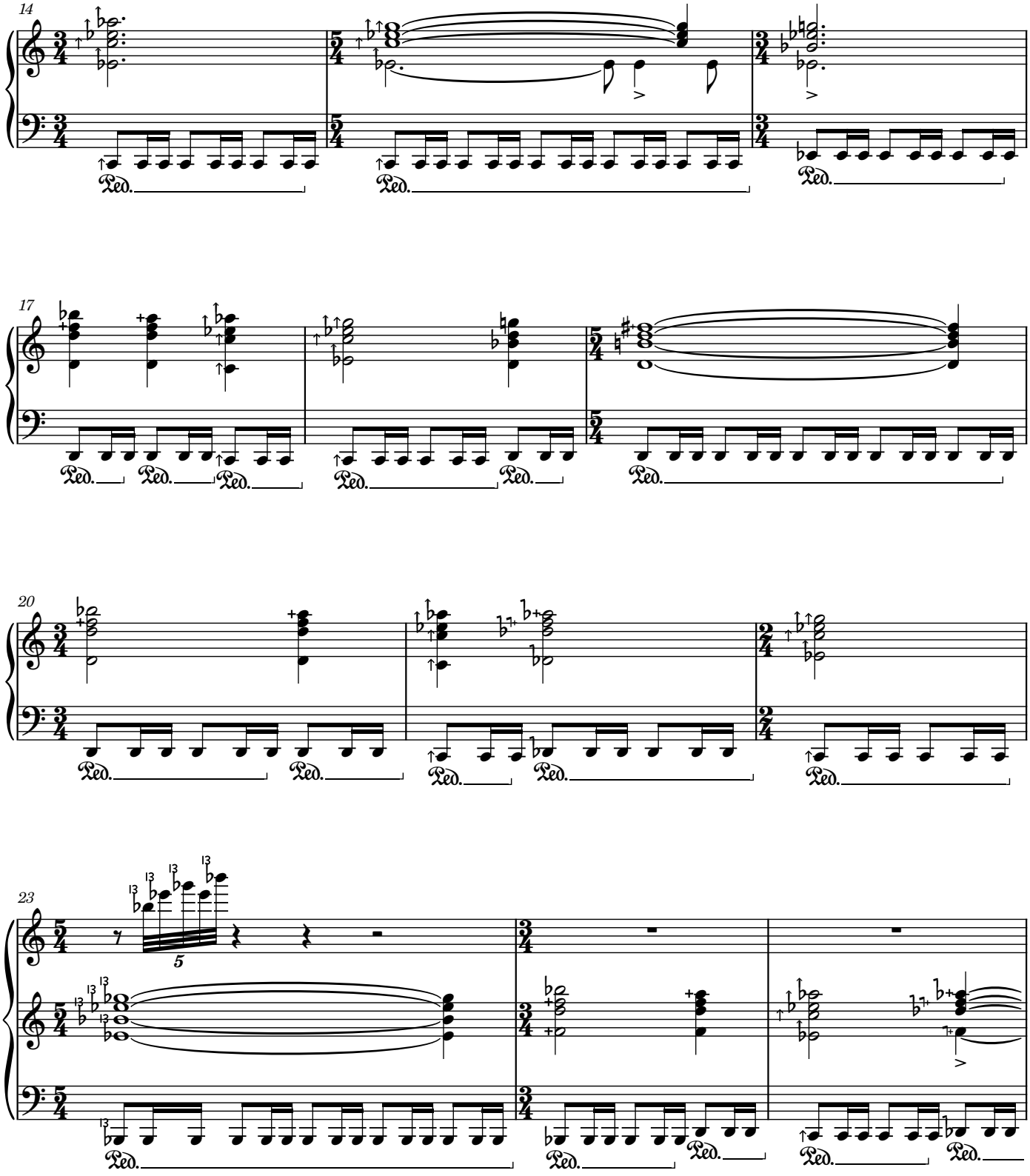

205
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f
Oct. 21, 2016 - July 12, 2017
Germantown. NY
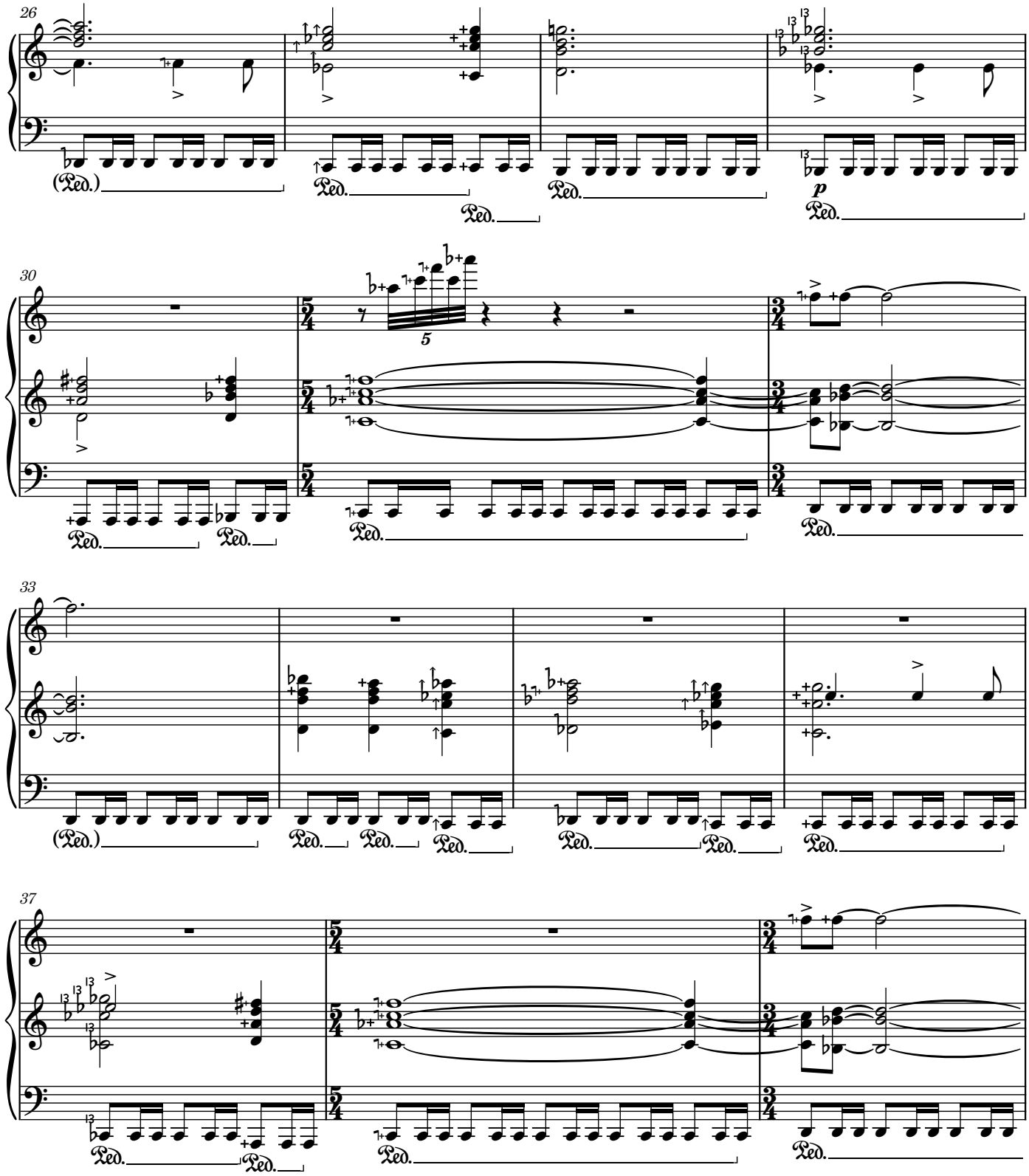
Dark Forces Signify

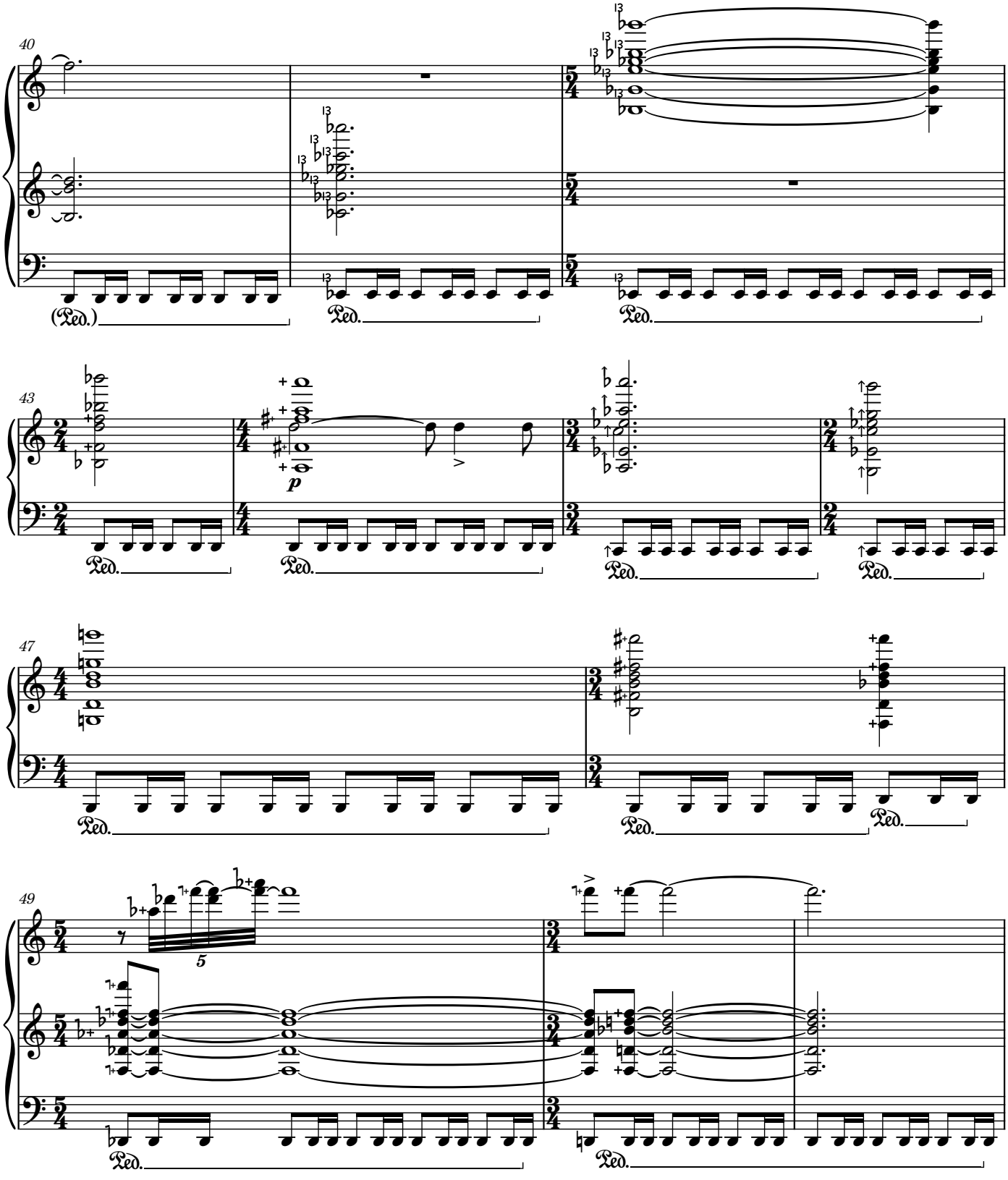
Kyle Gann
2016
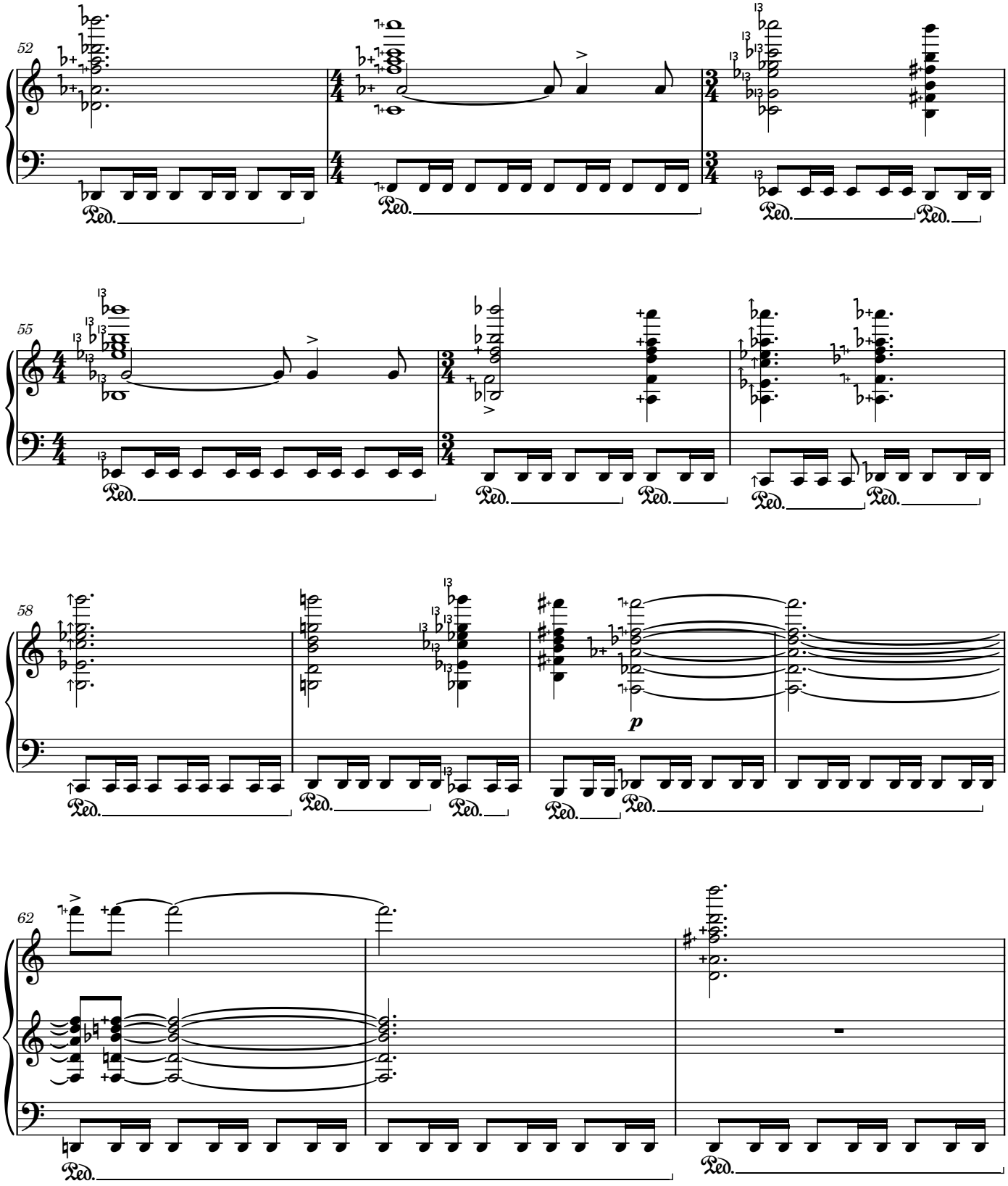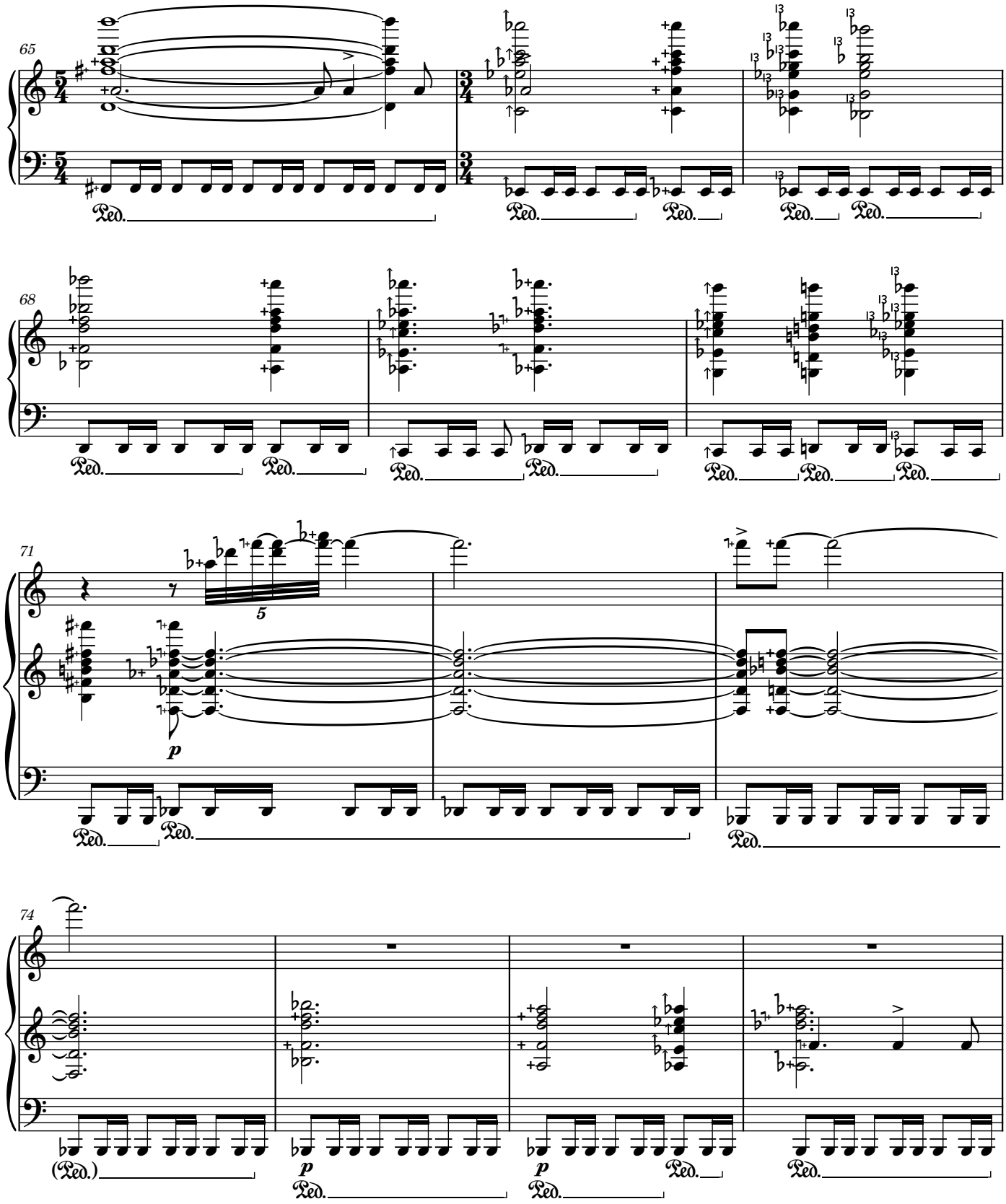


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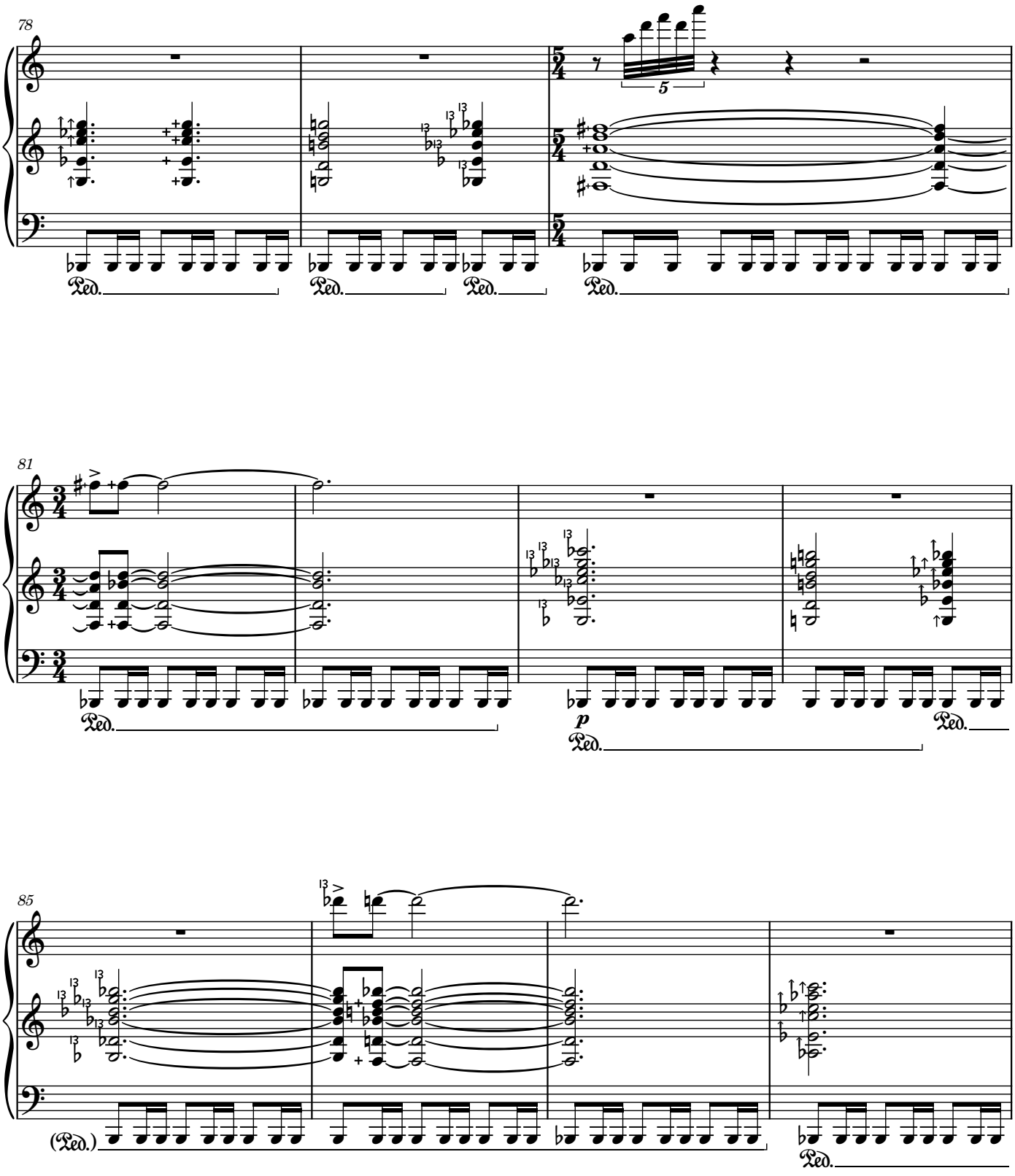

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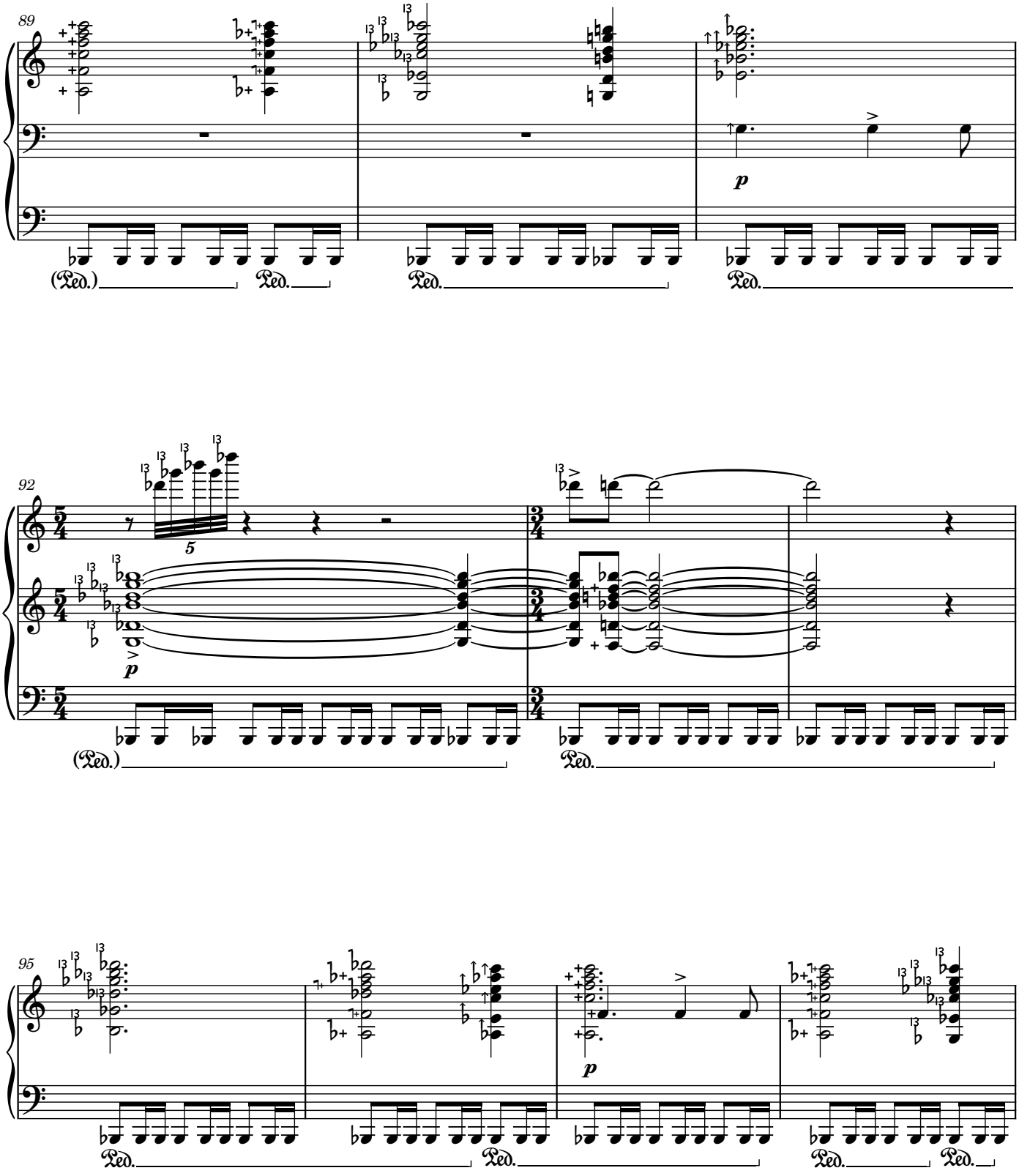

26
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Ped.
Ped.
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Ped.
30
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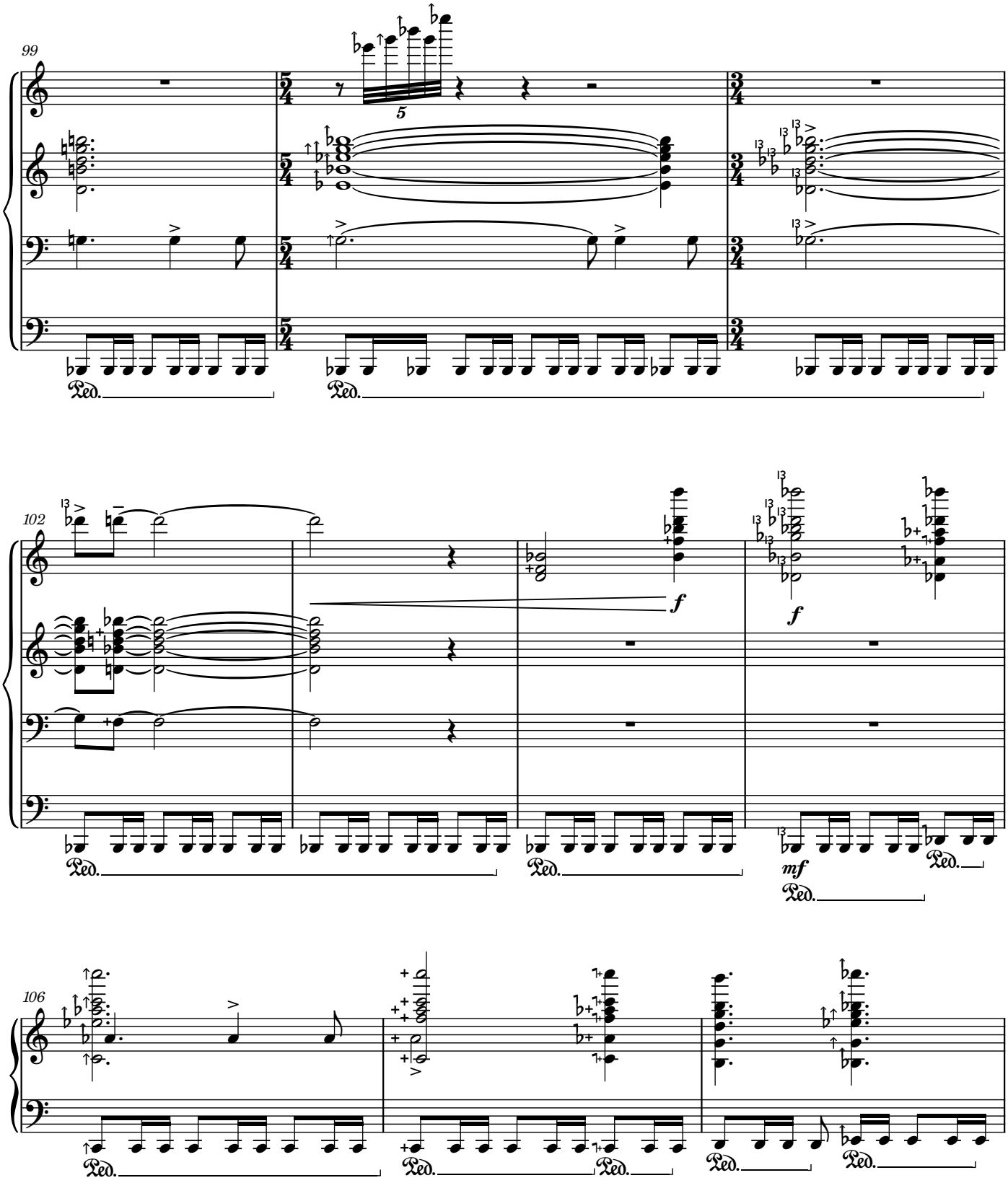

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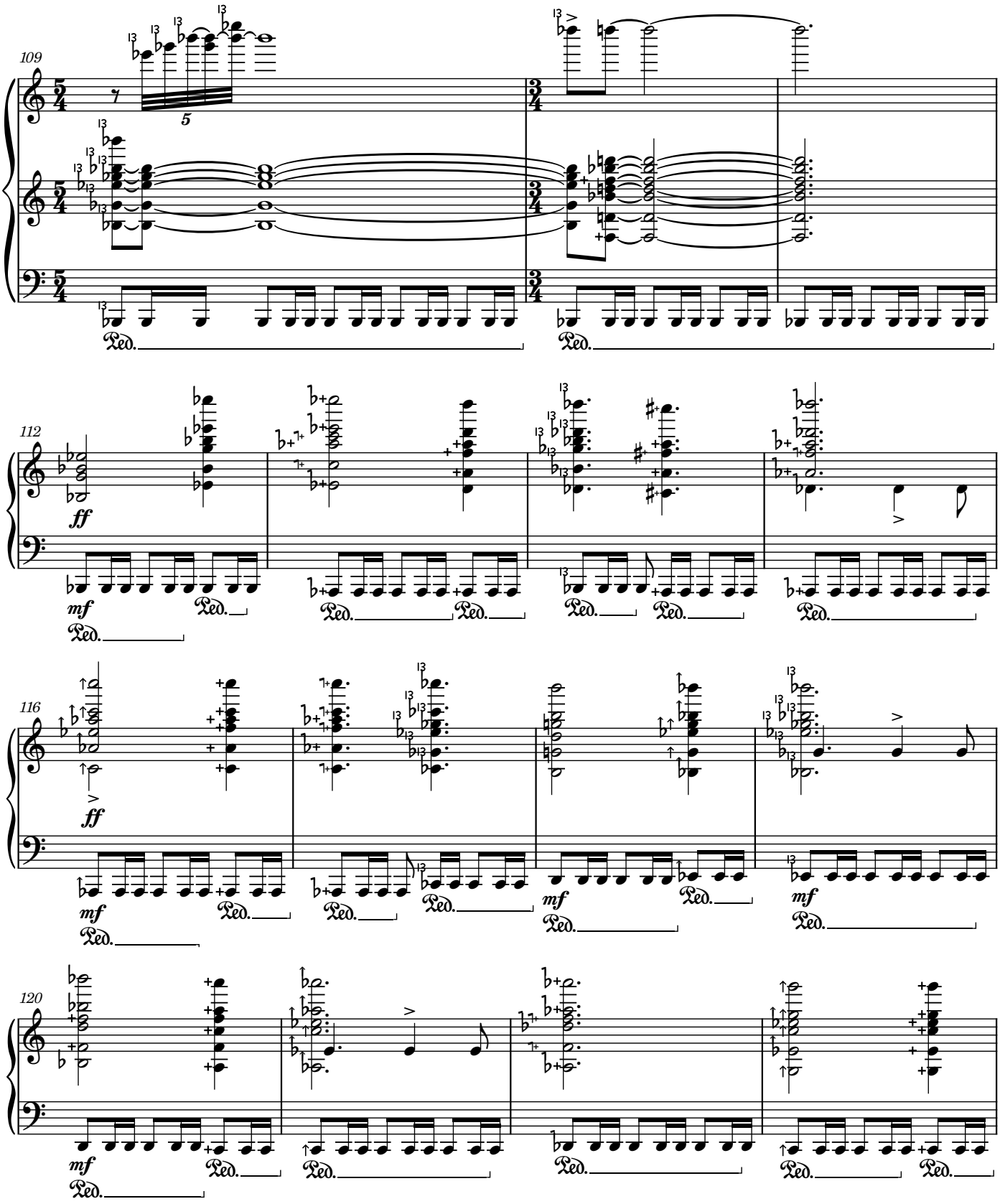

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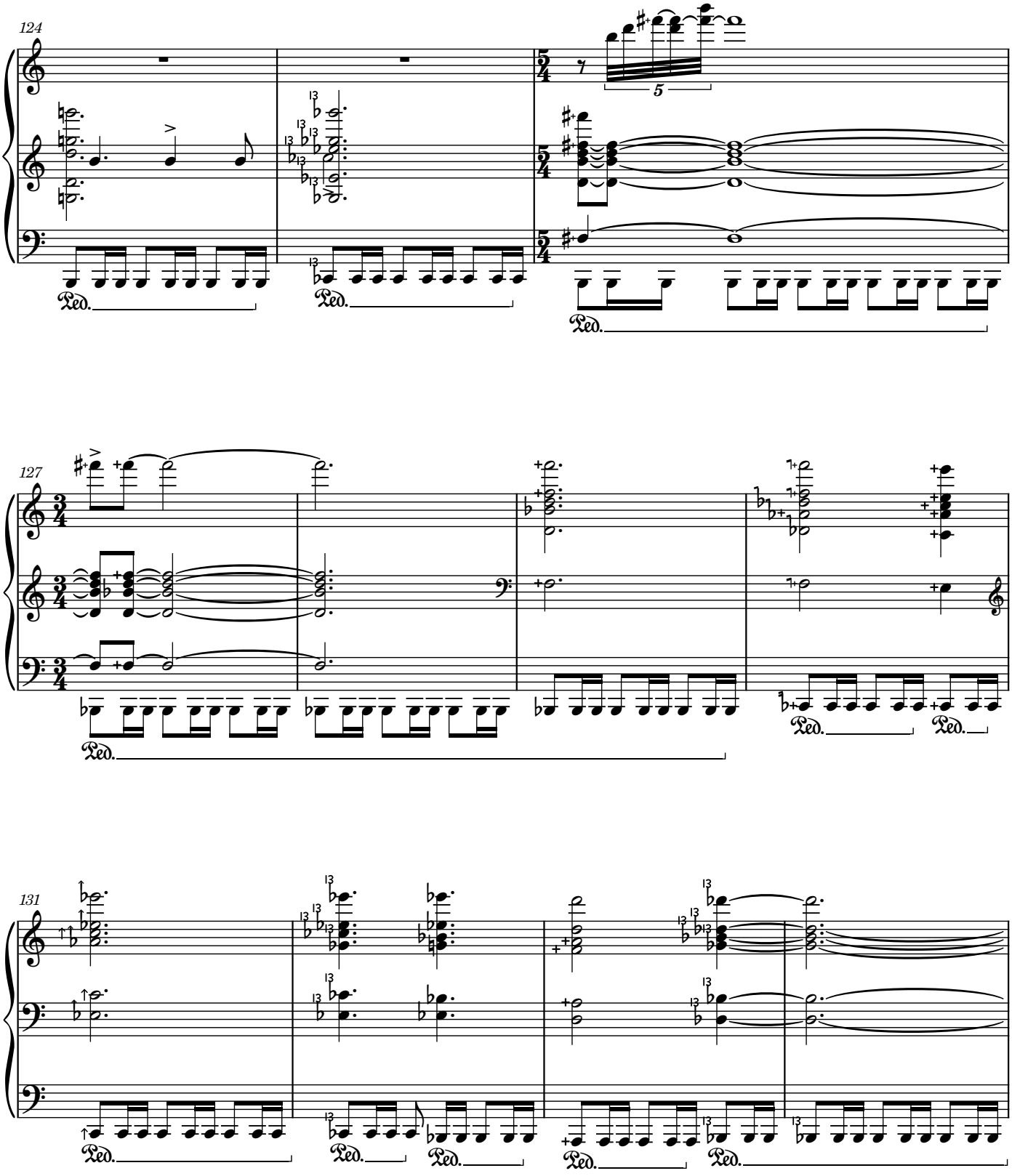

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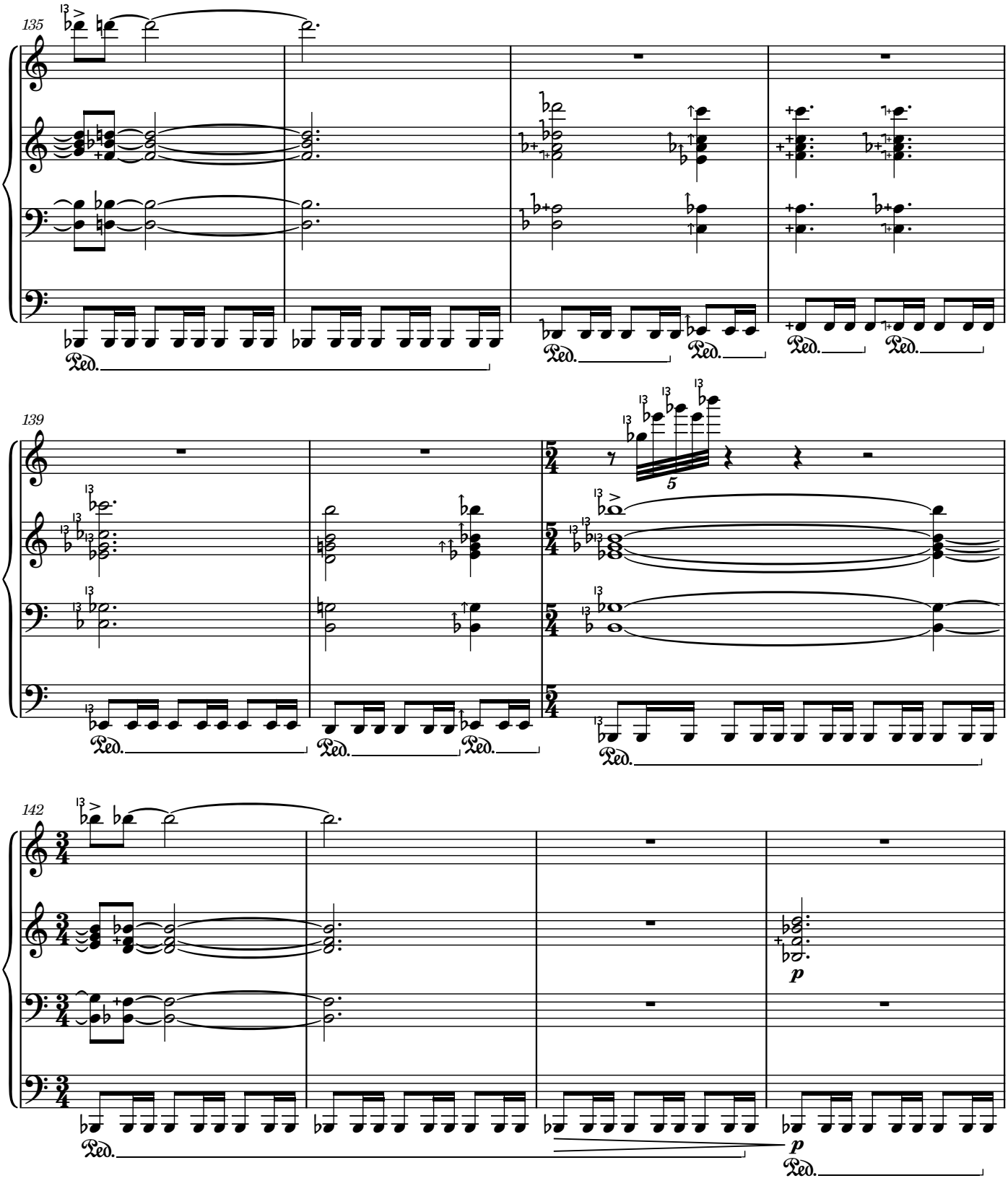

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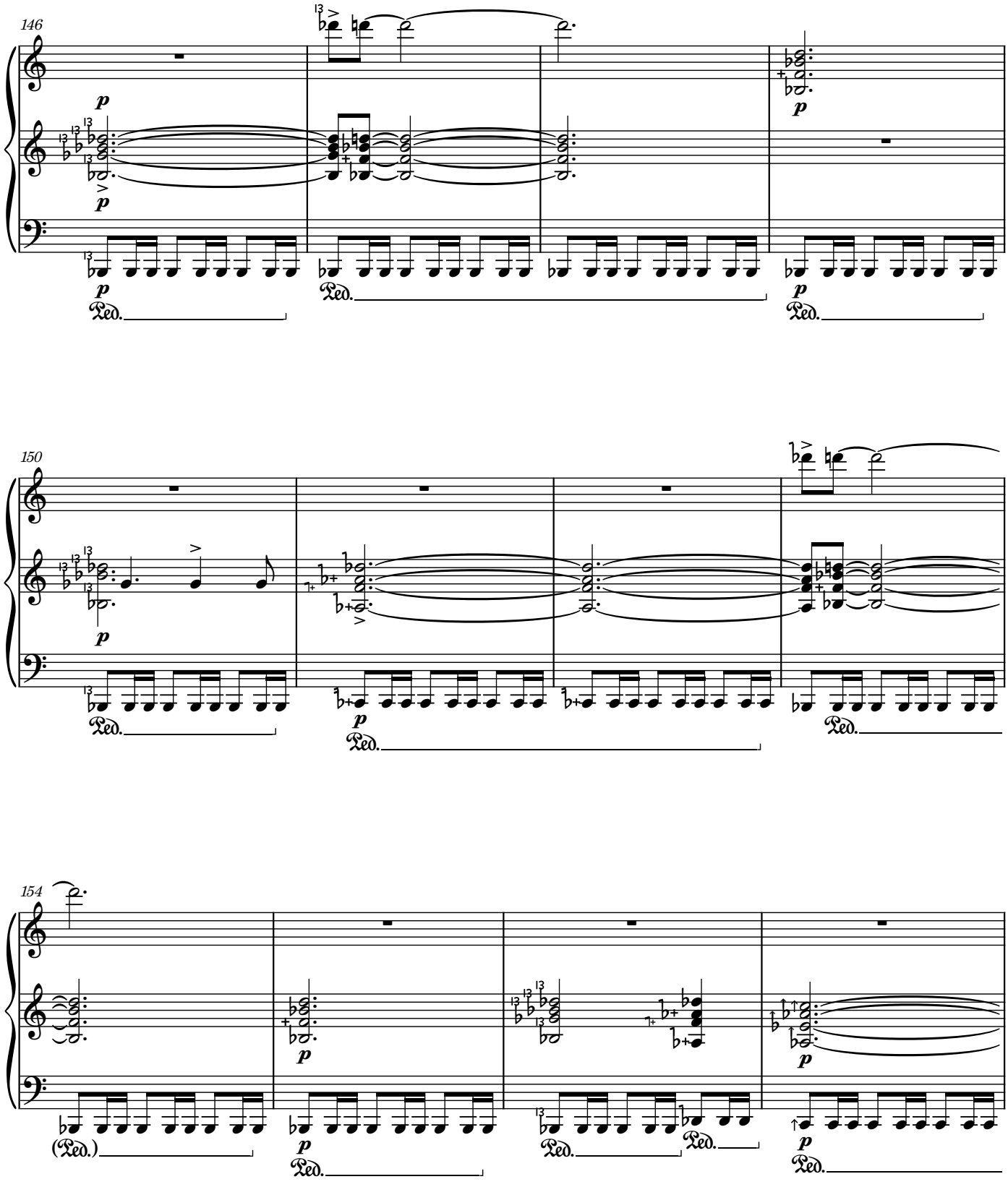

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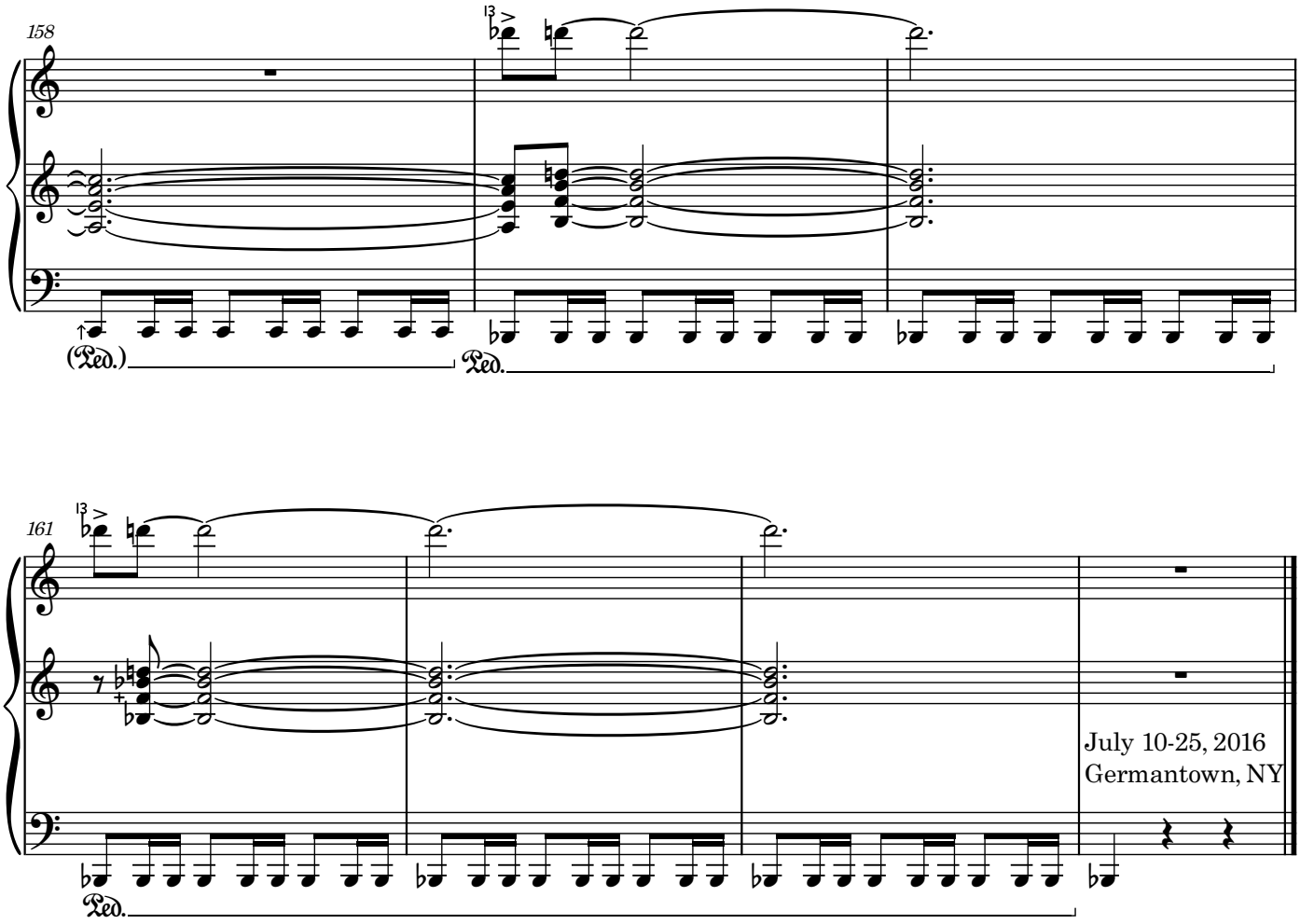

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mf
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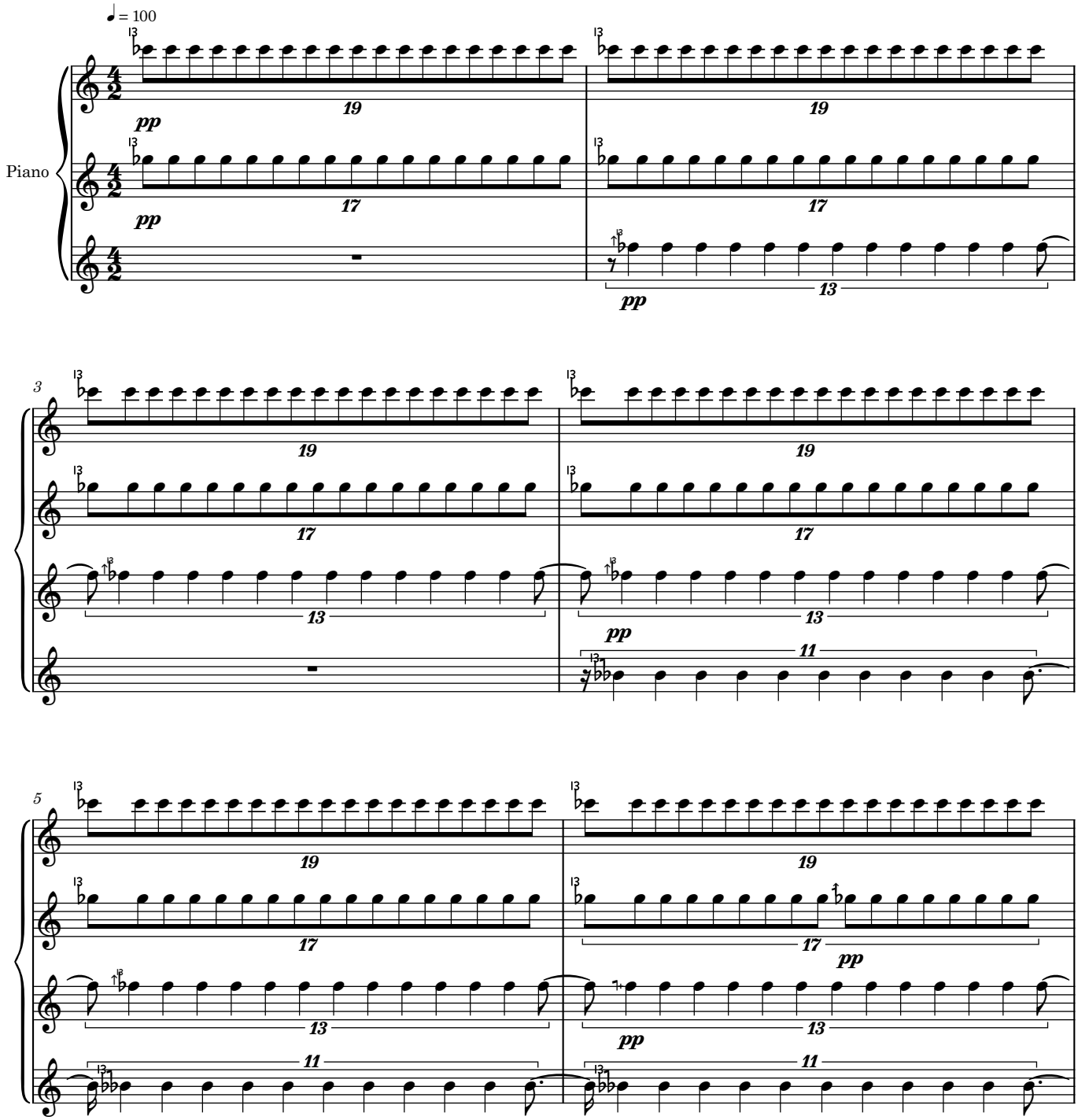

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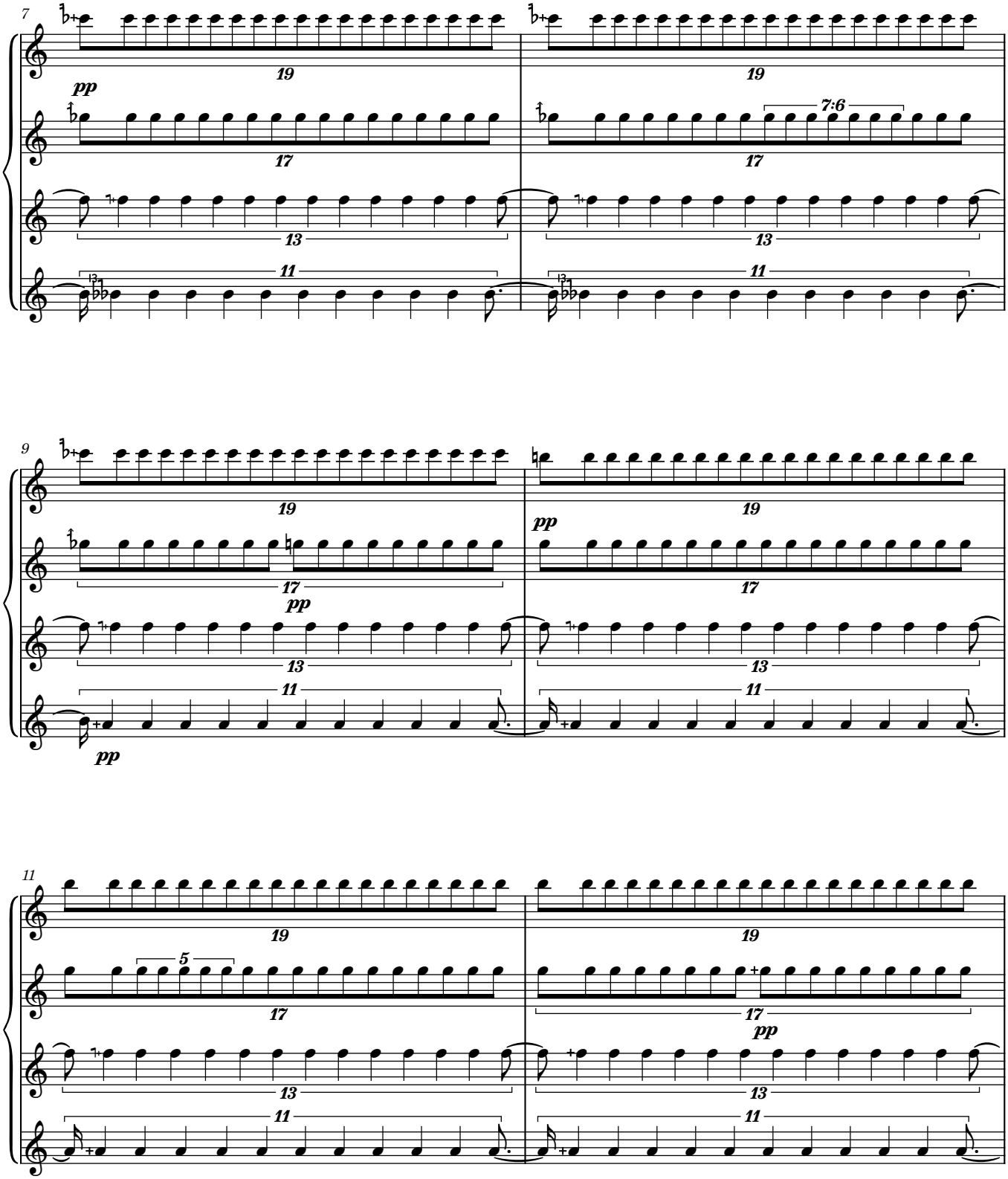

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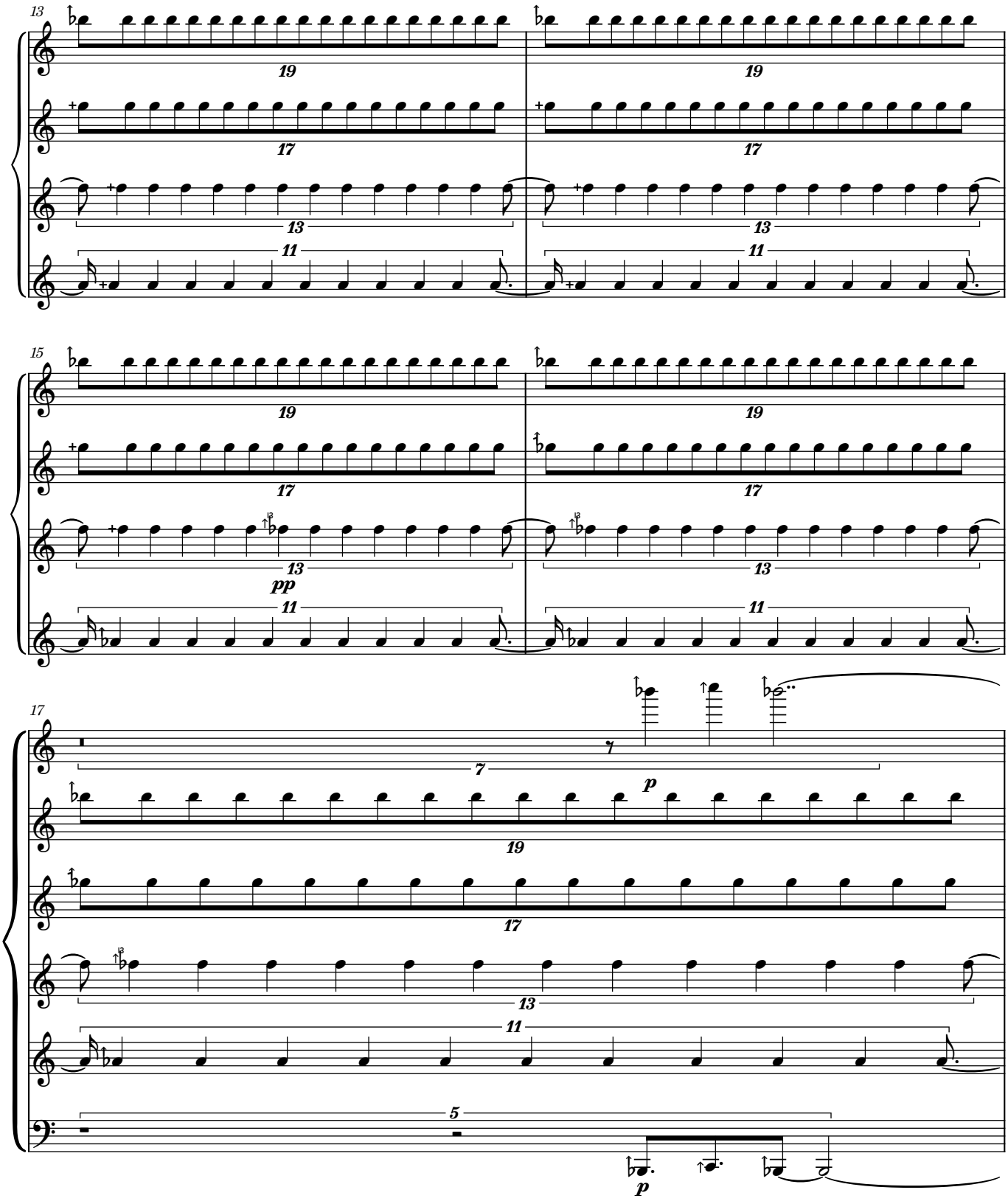

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July 10-25, 2016
Germantown, NY
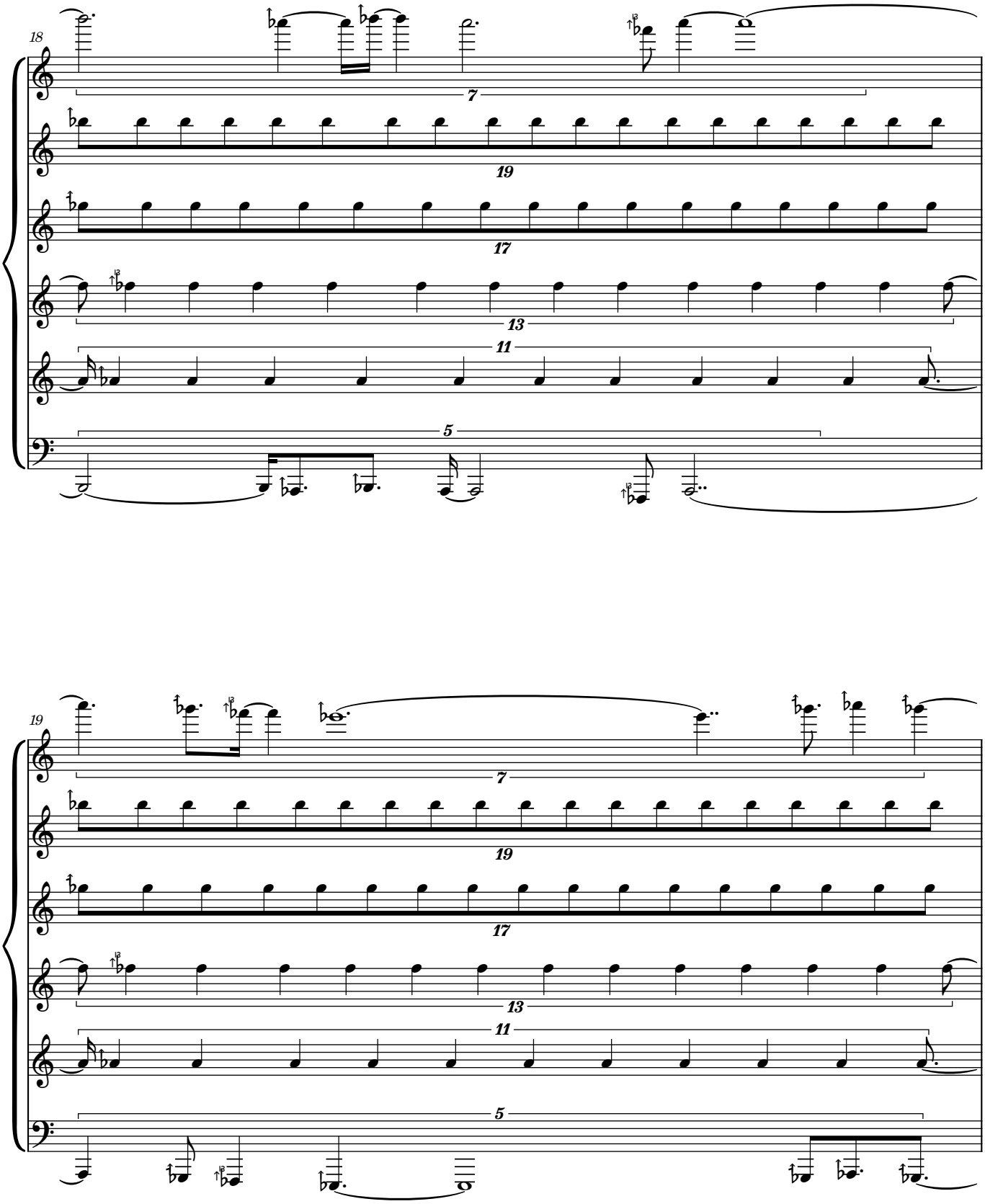
The Lessing Is Miracle

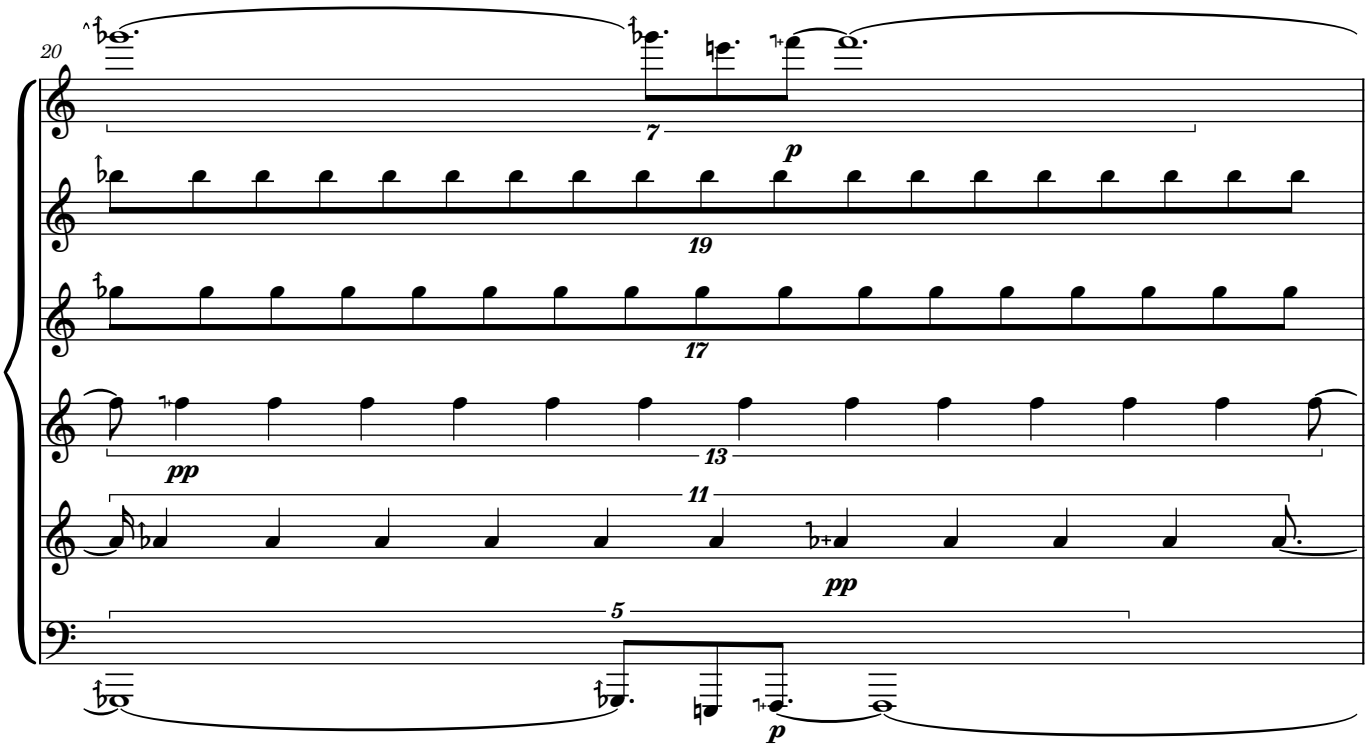
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2015-16

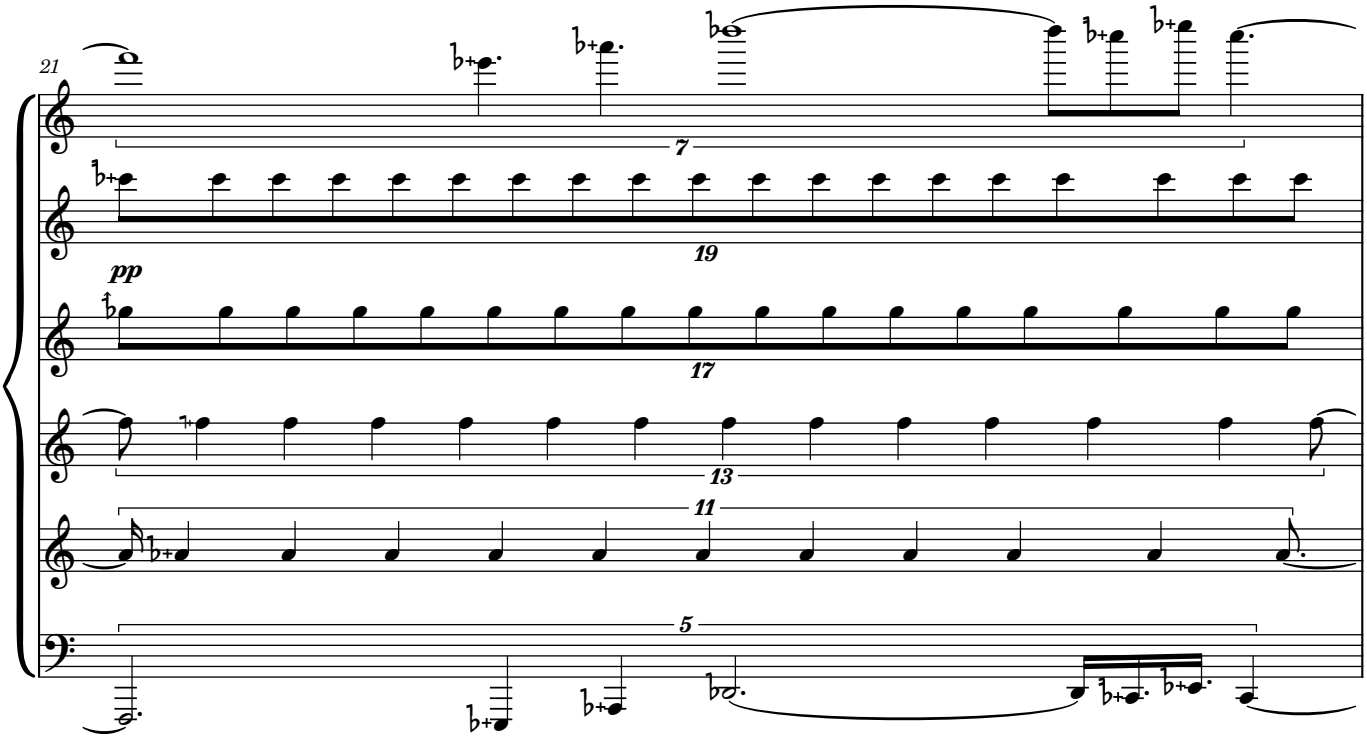


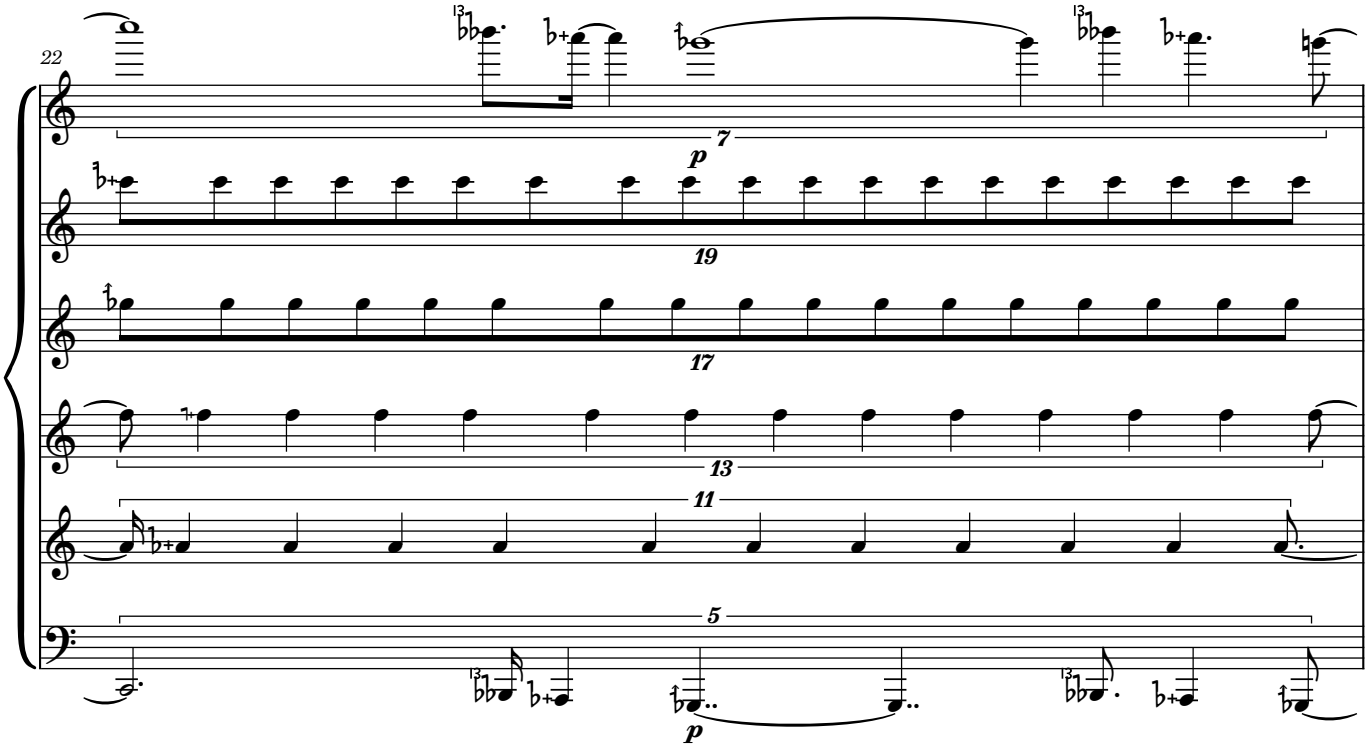

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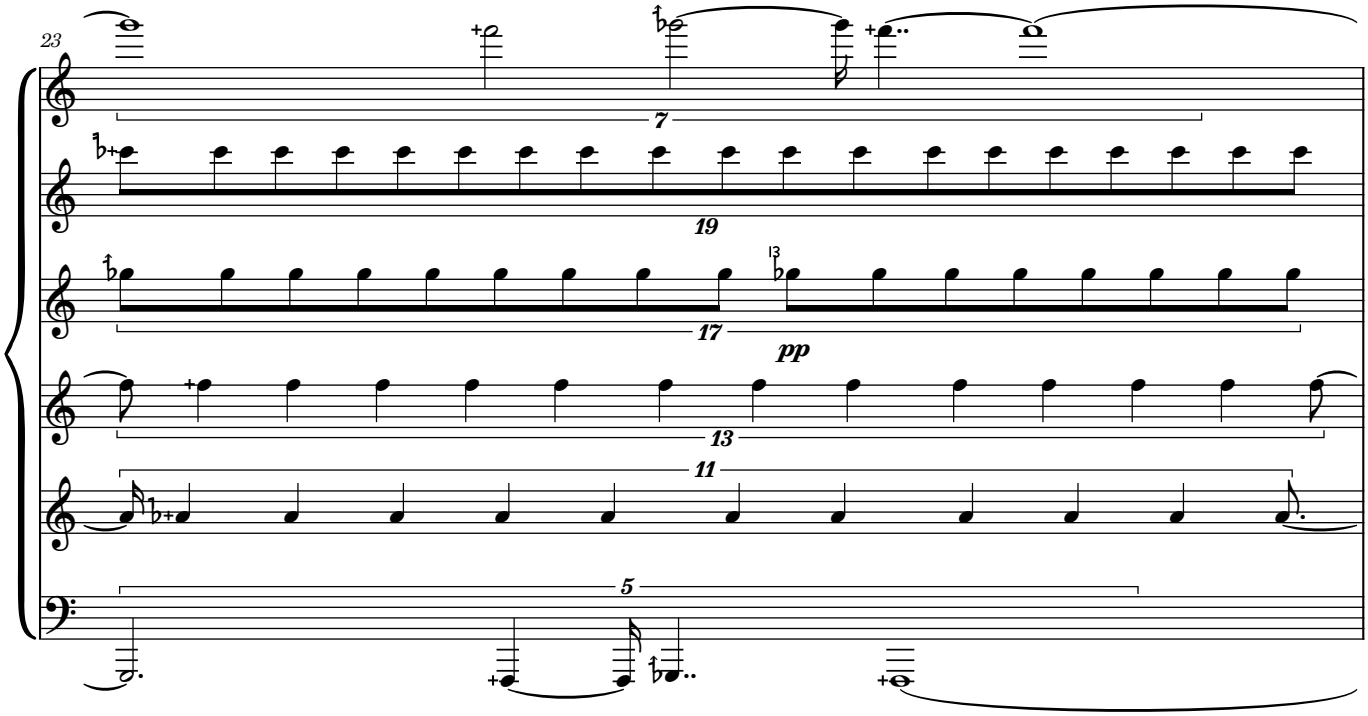

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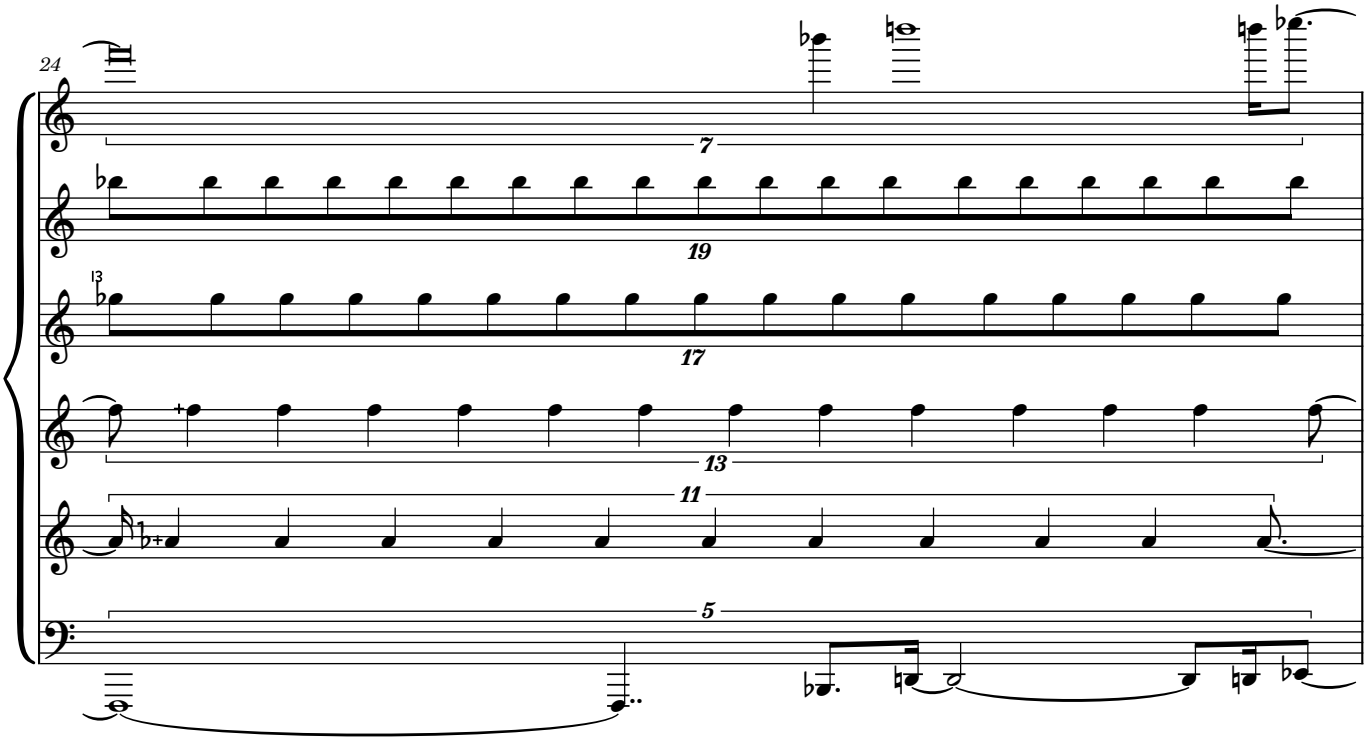

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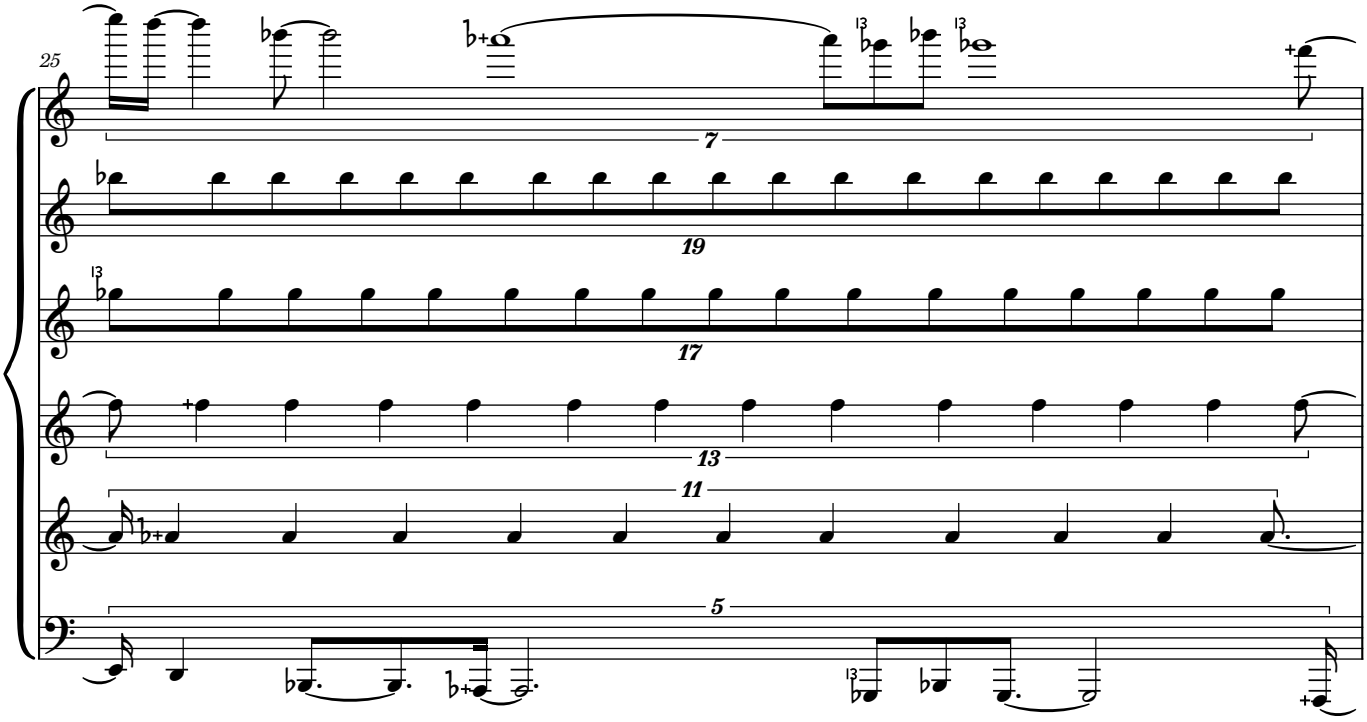

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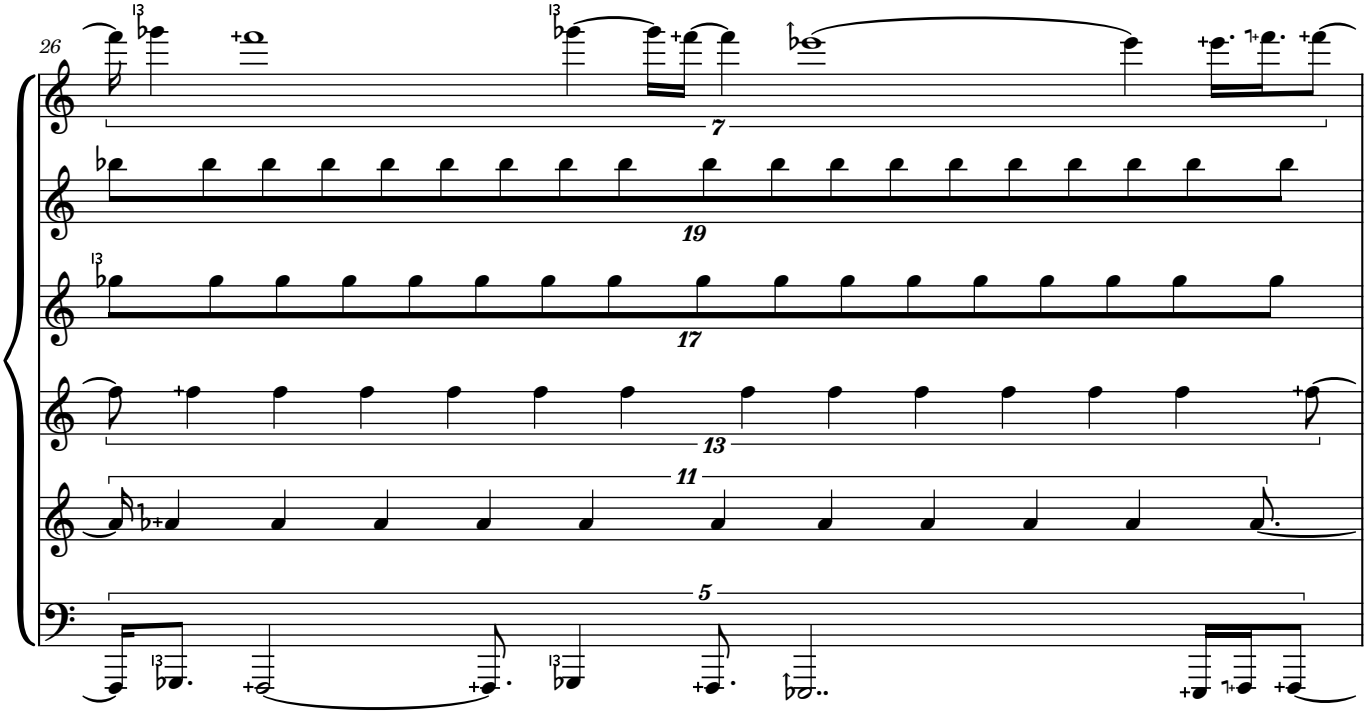

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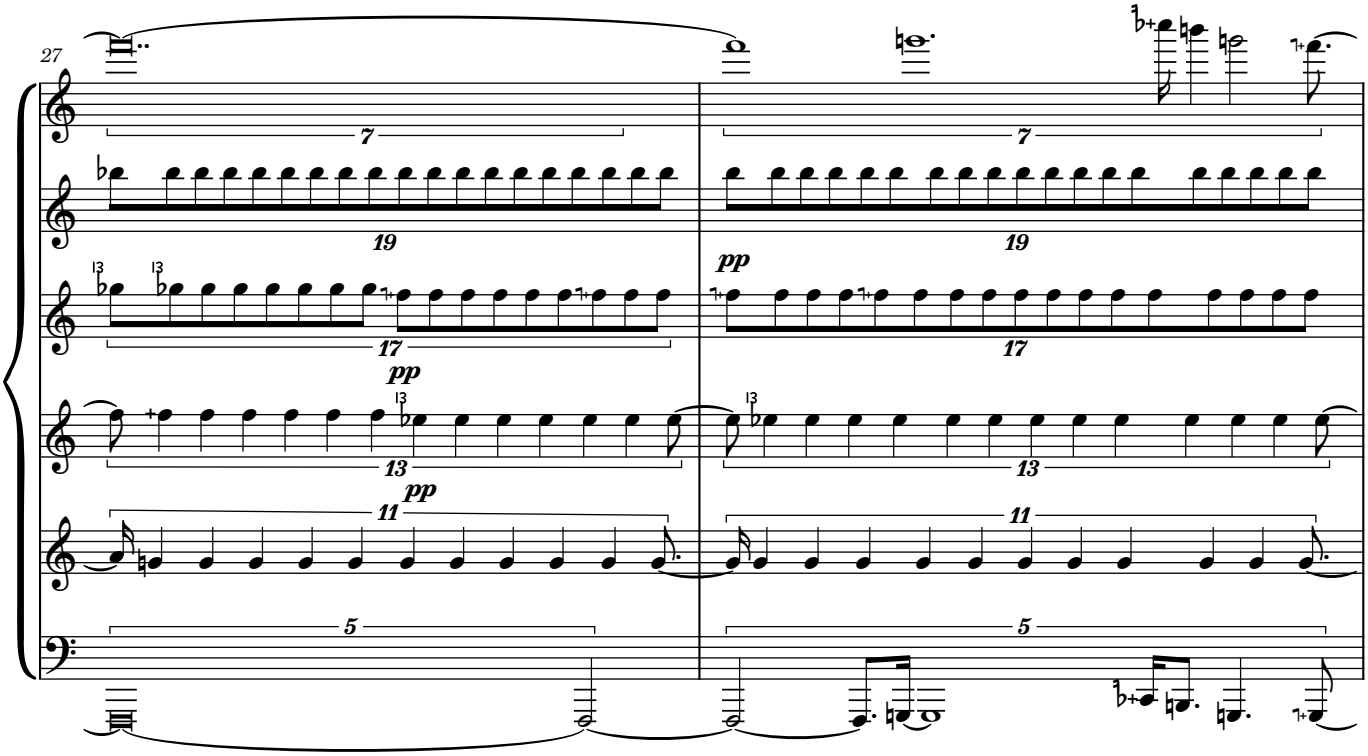

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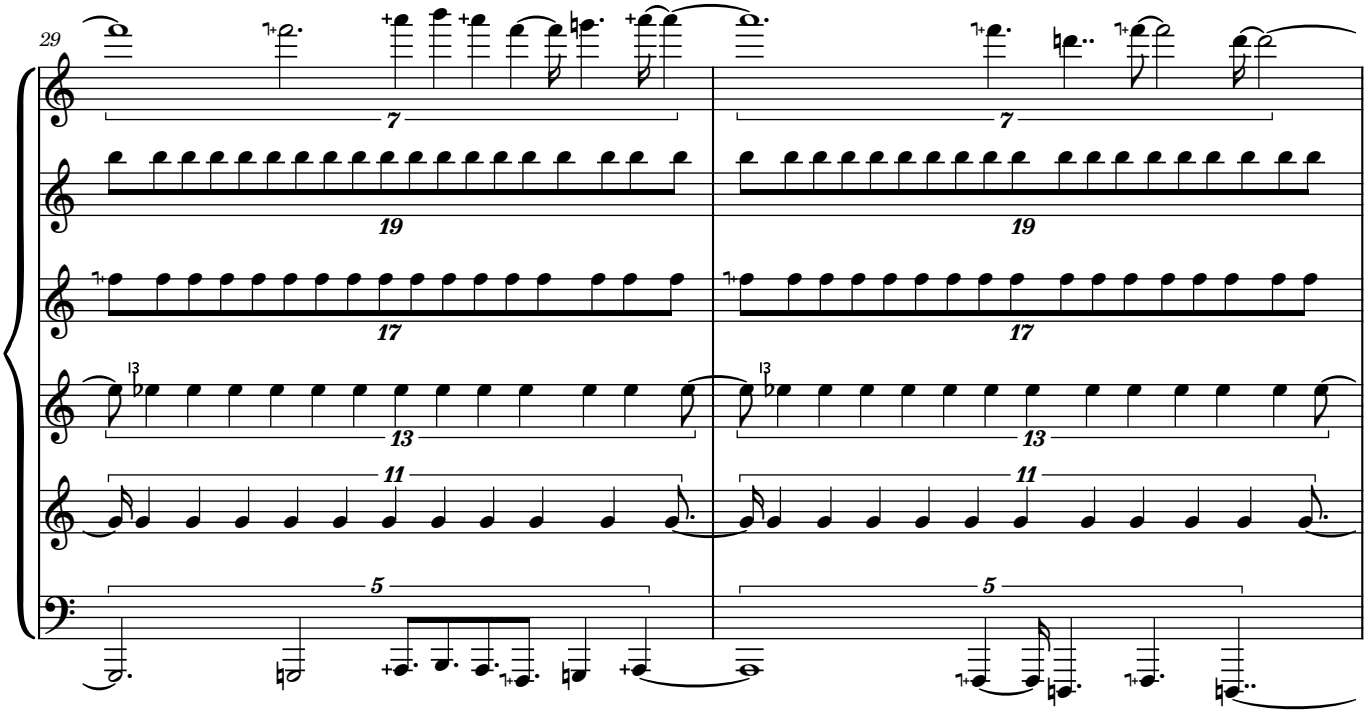

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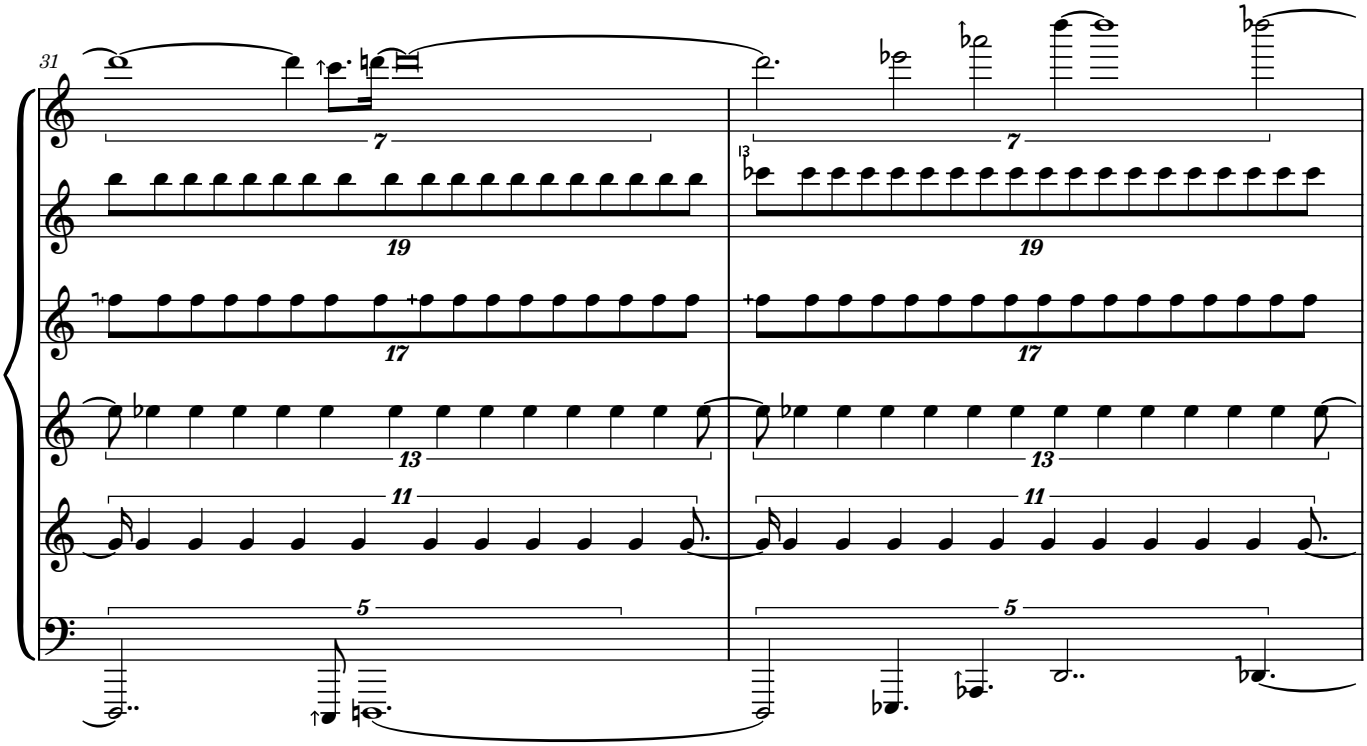

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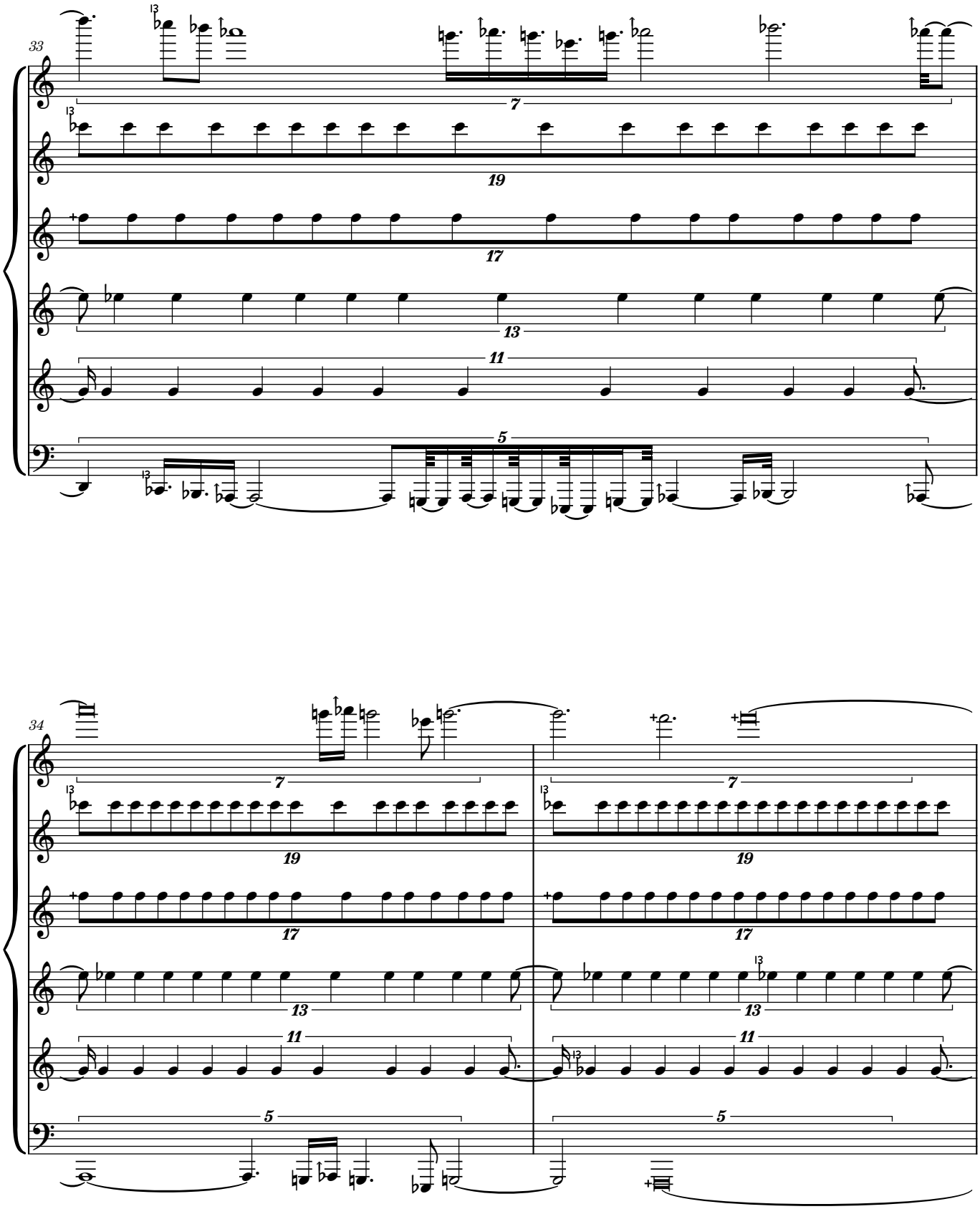

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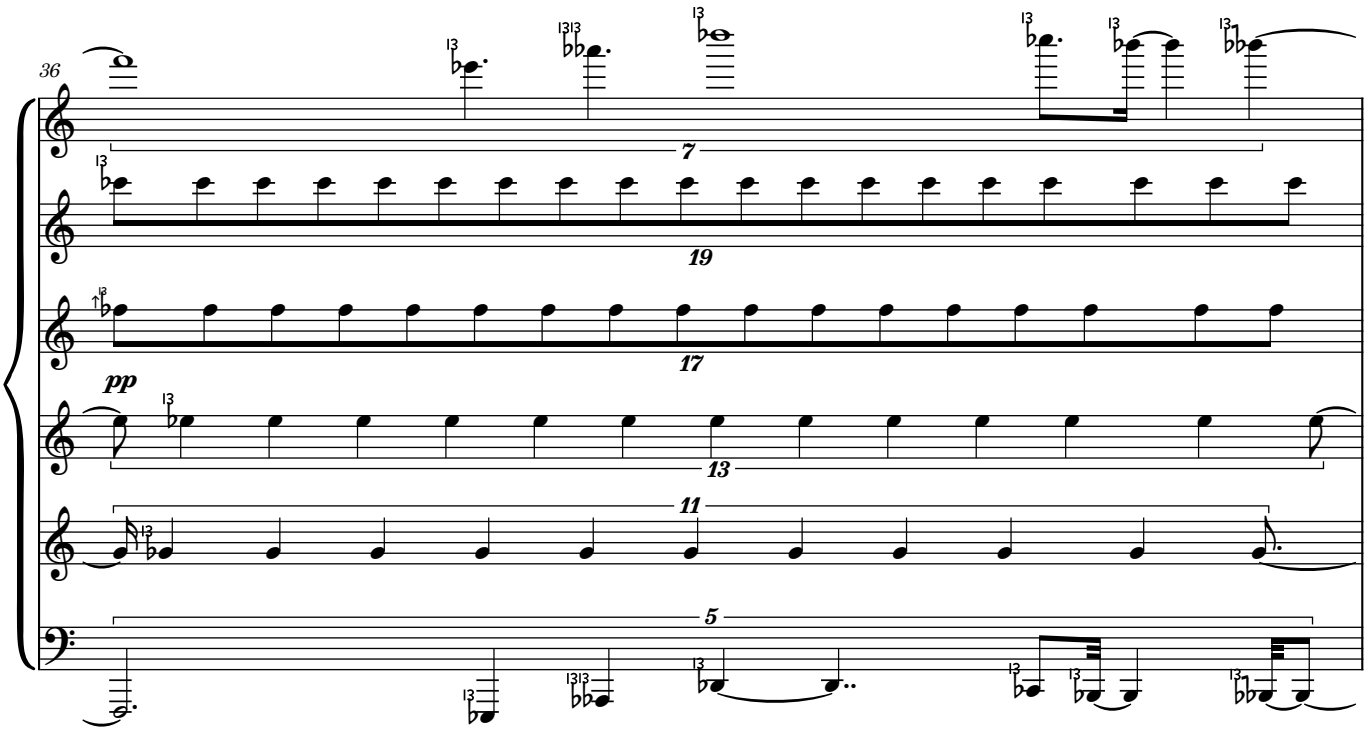

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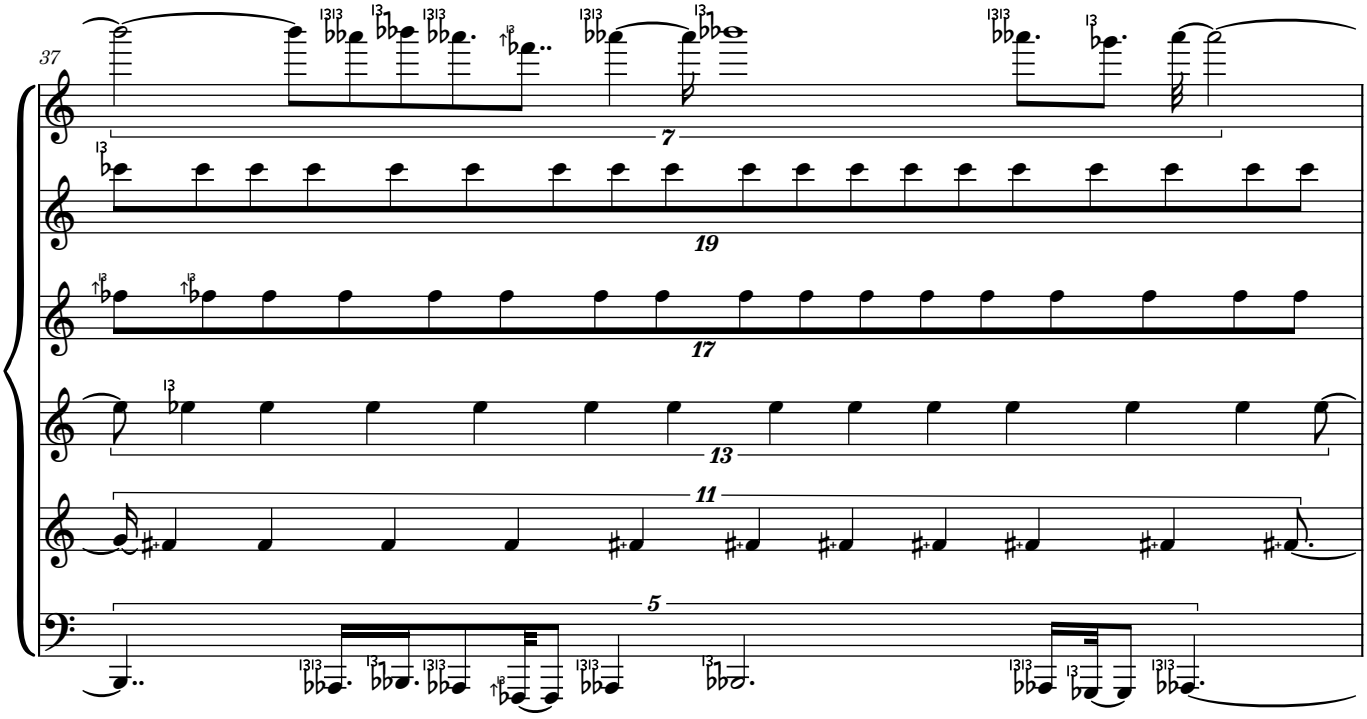

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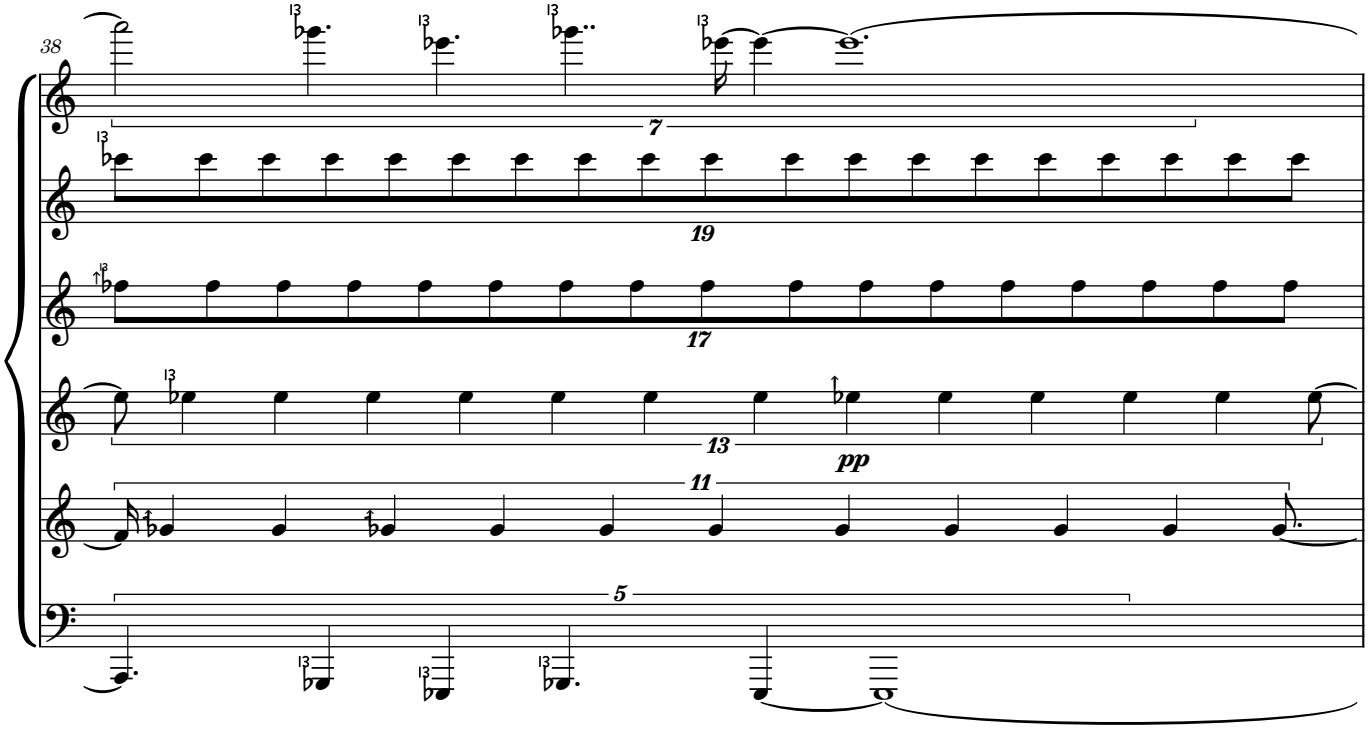

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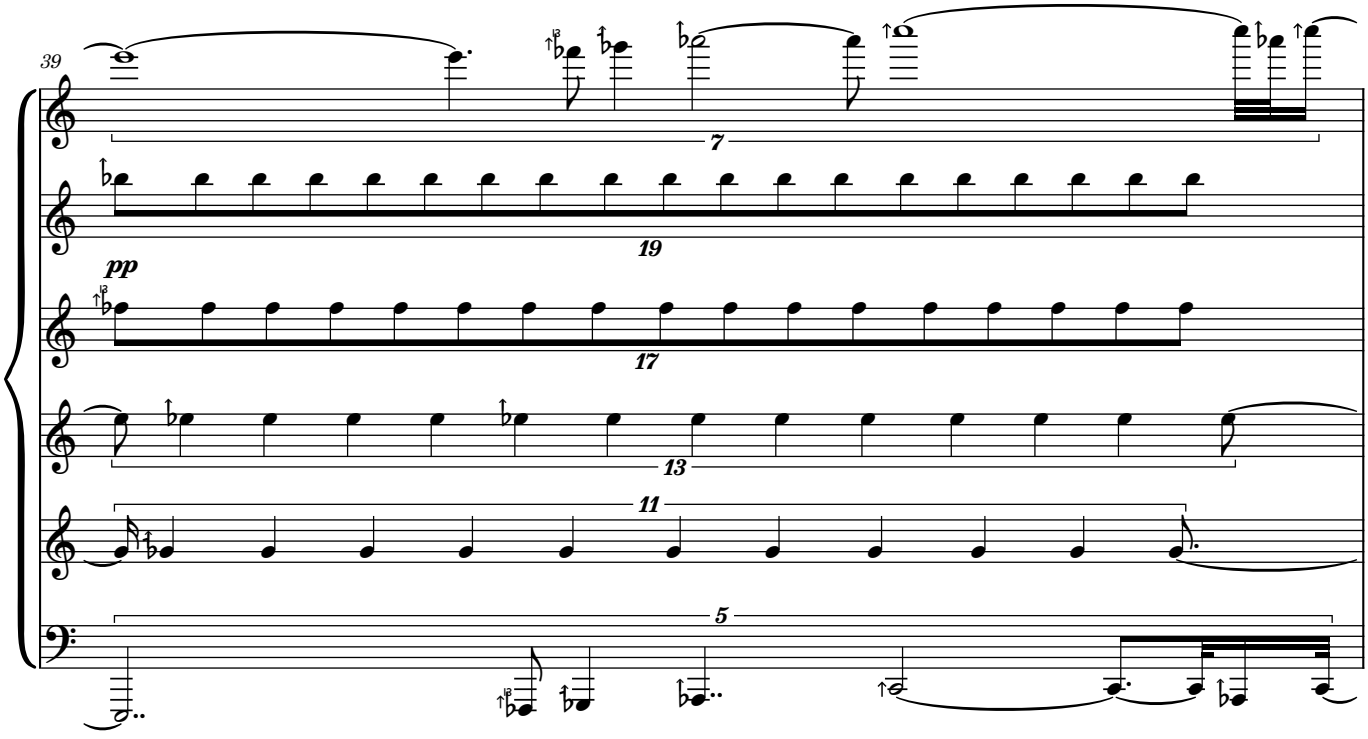

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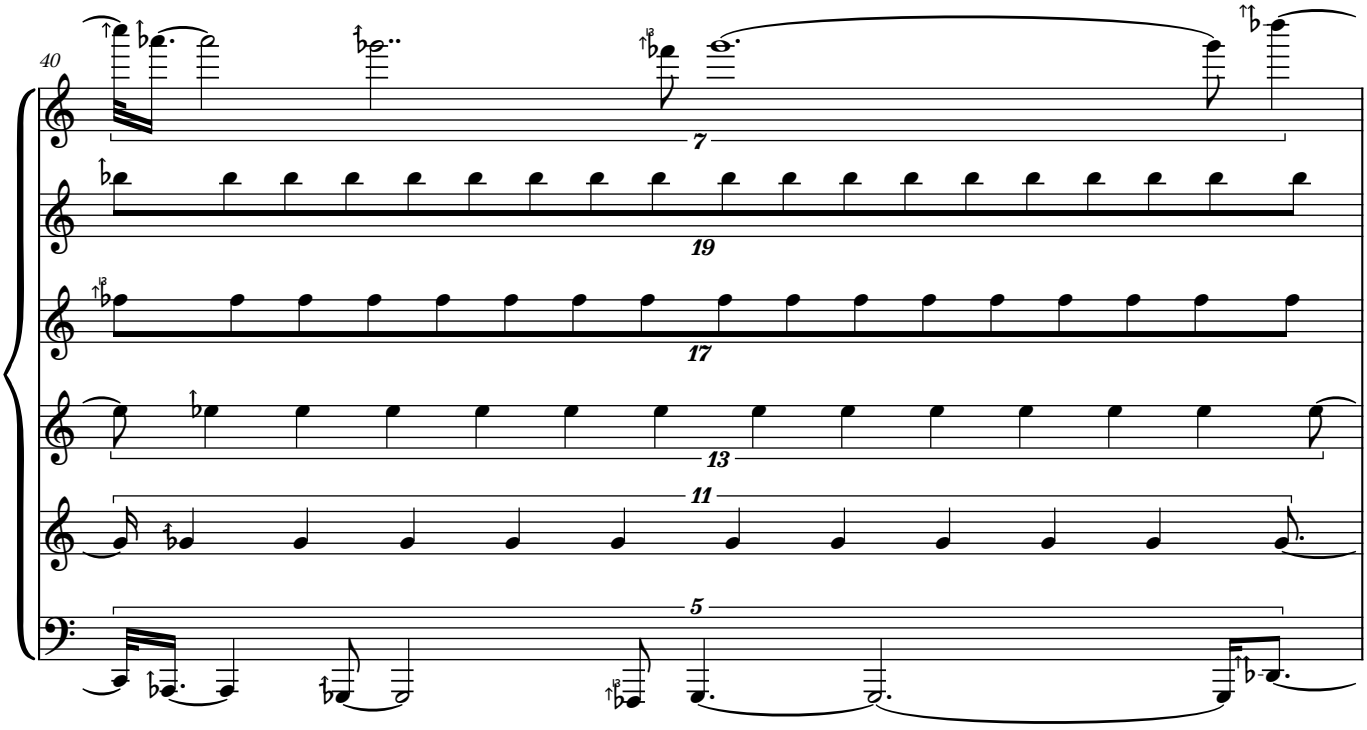

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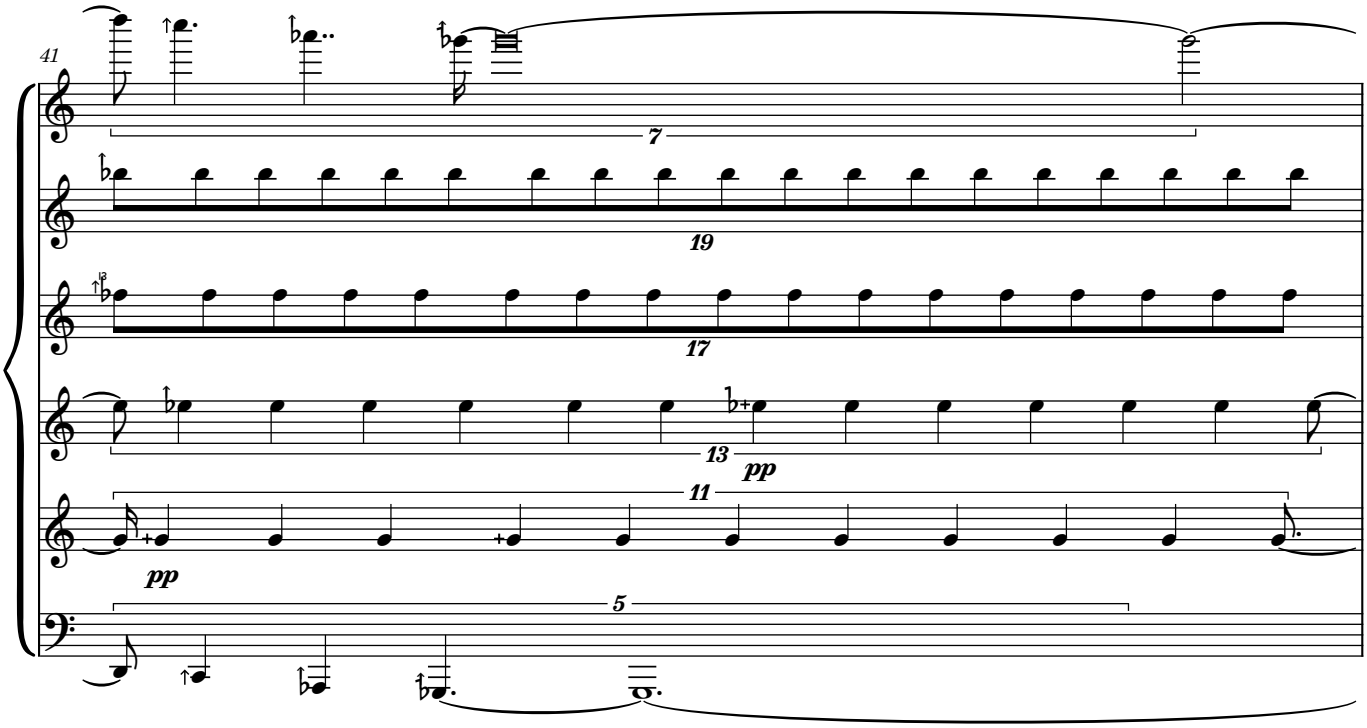

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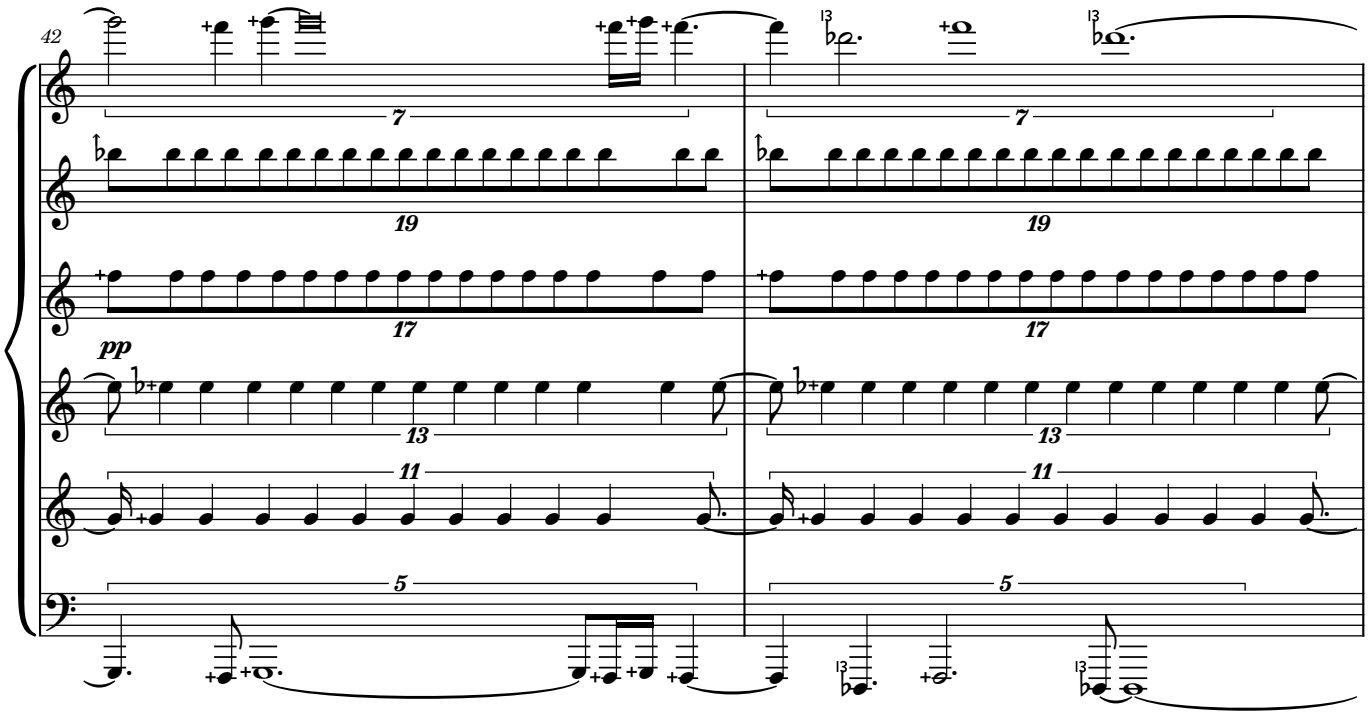

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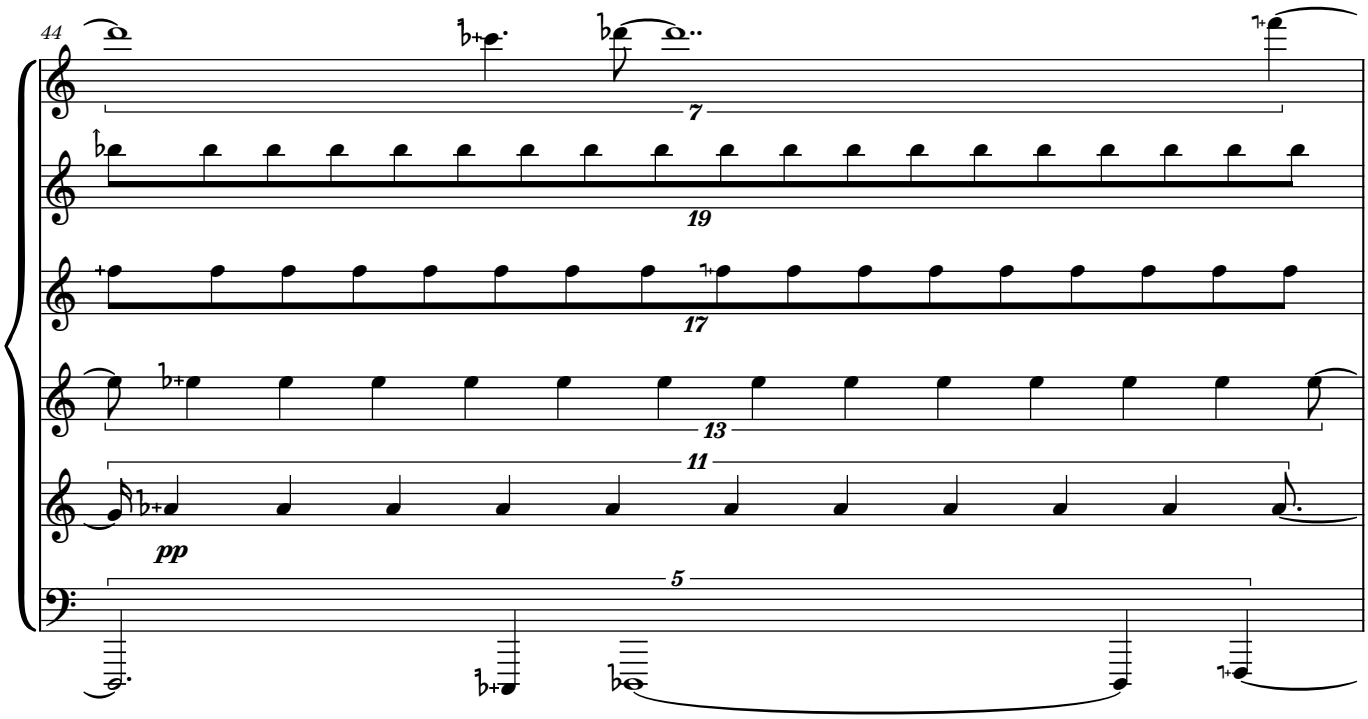

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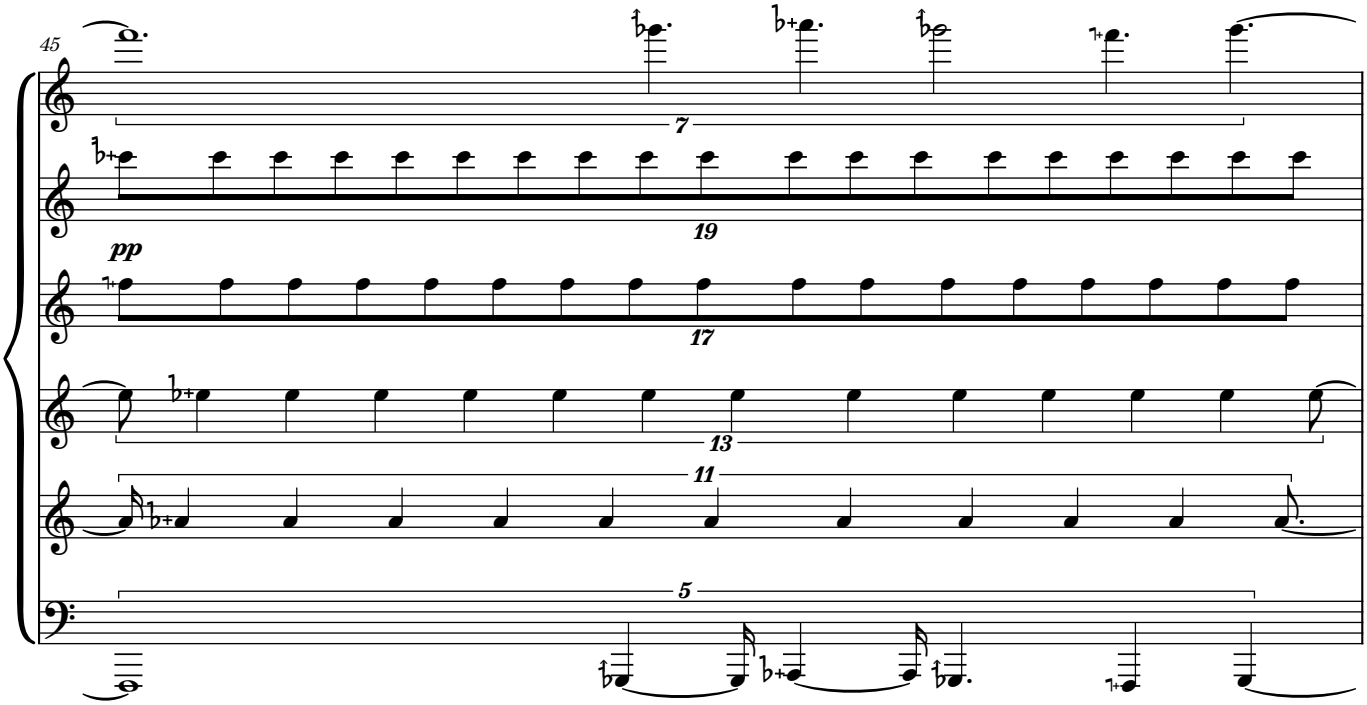

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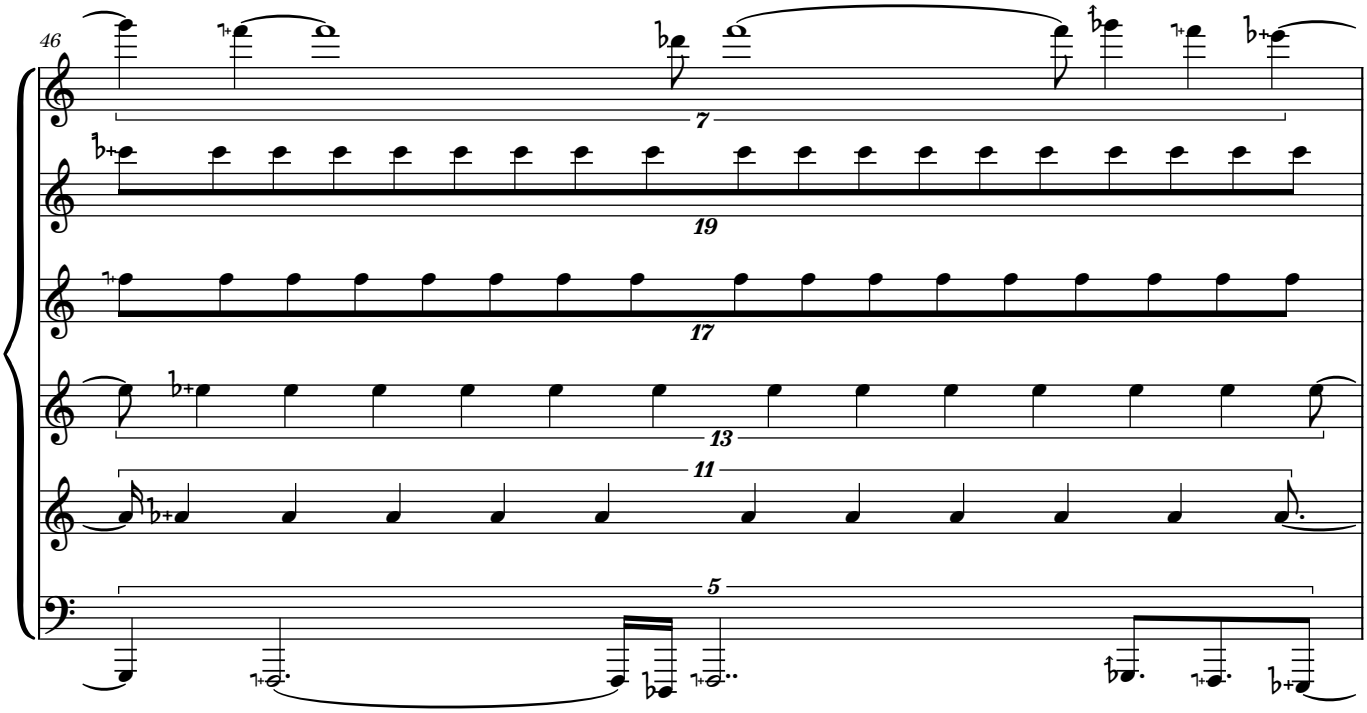

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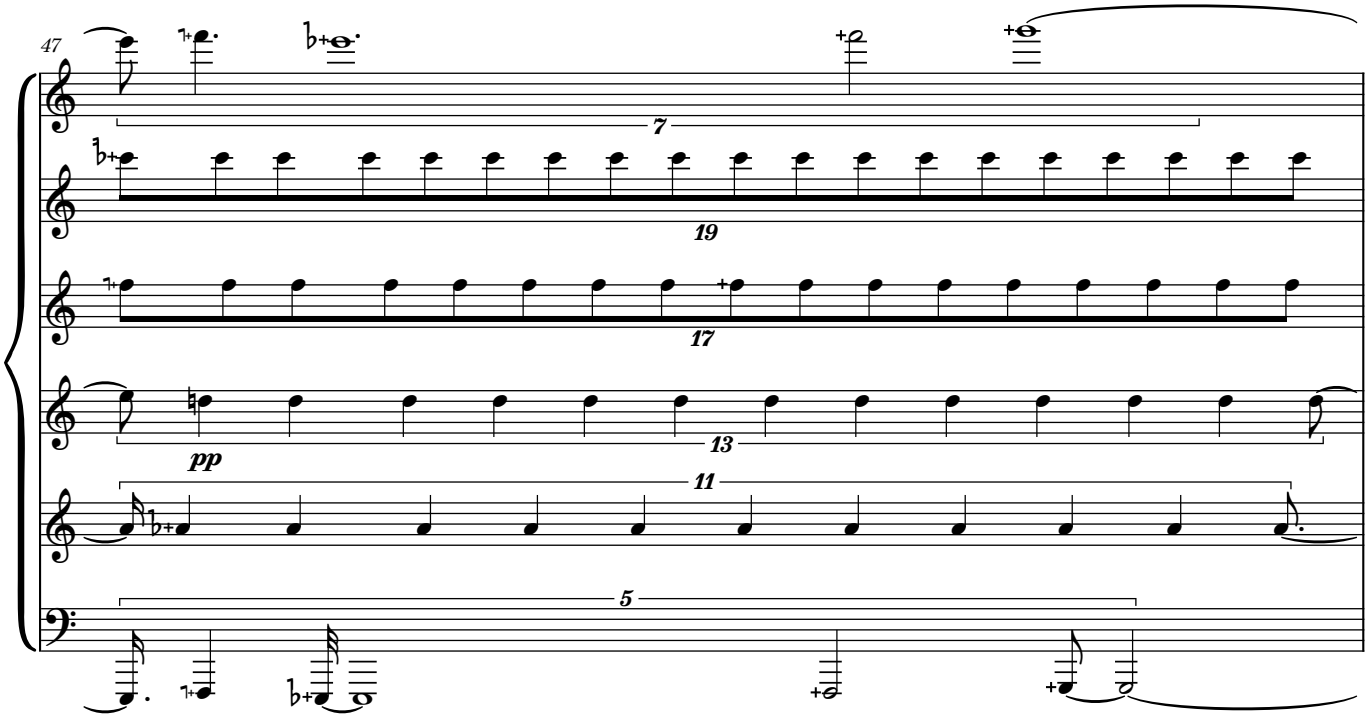

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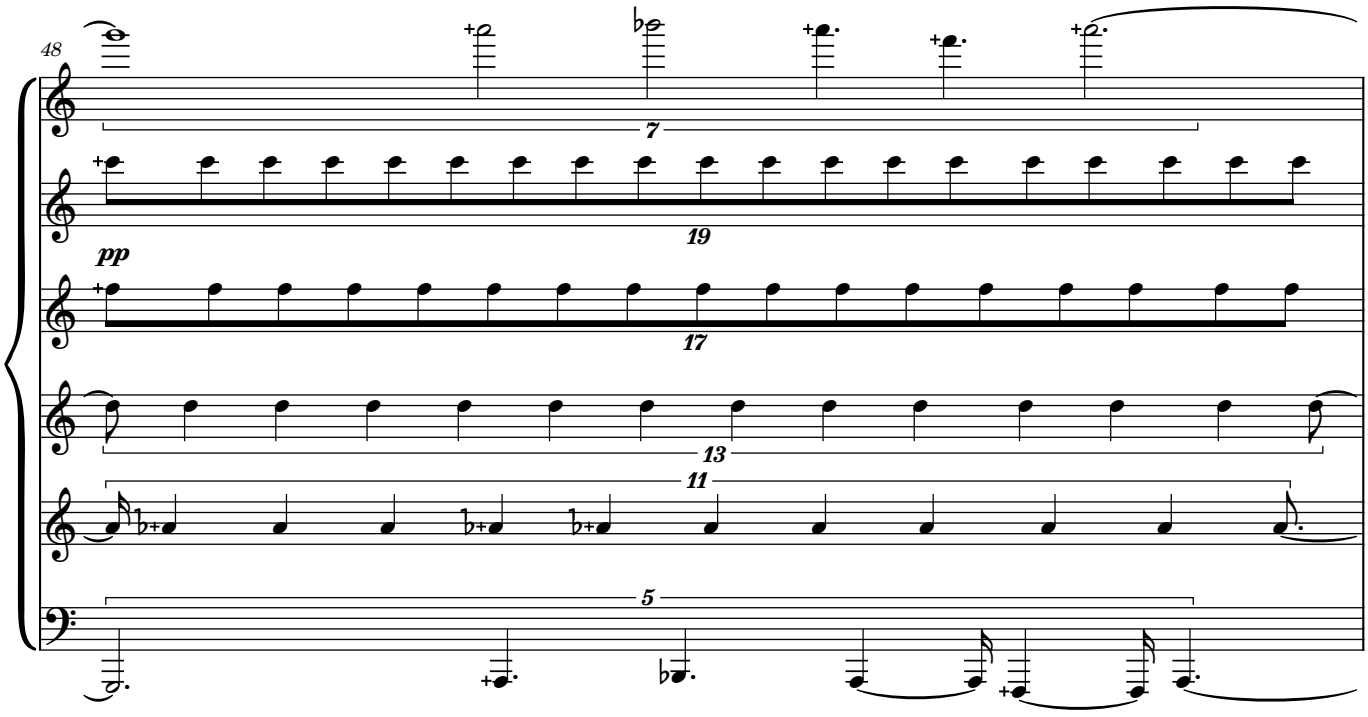

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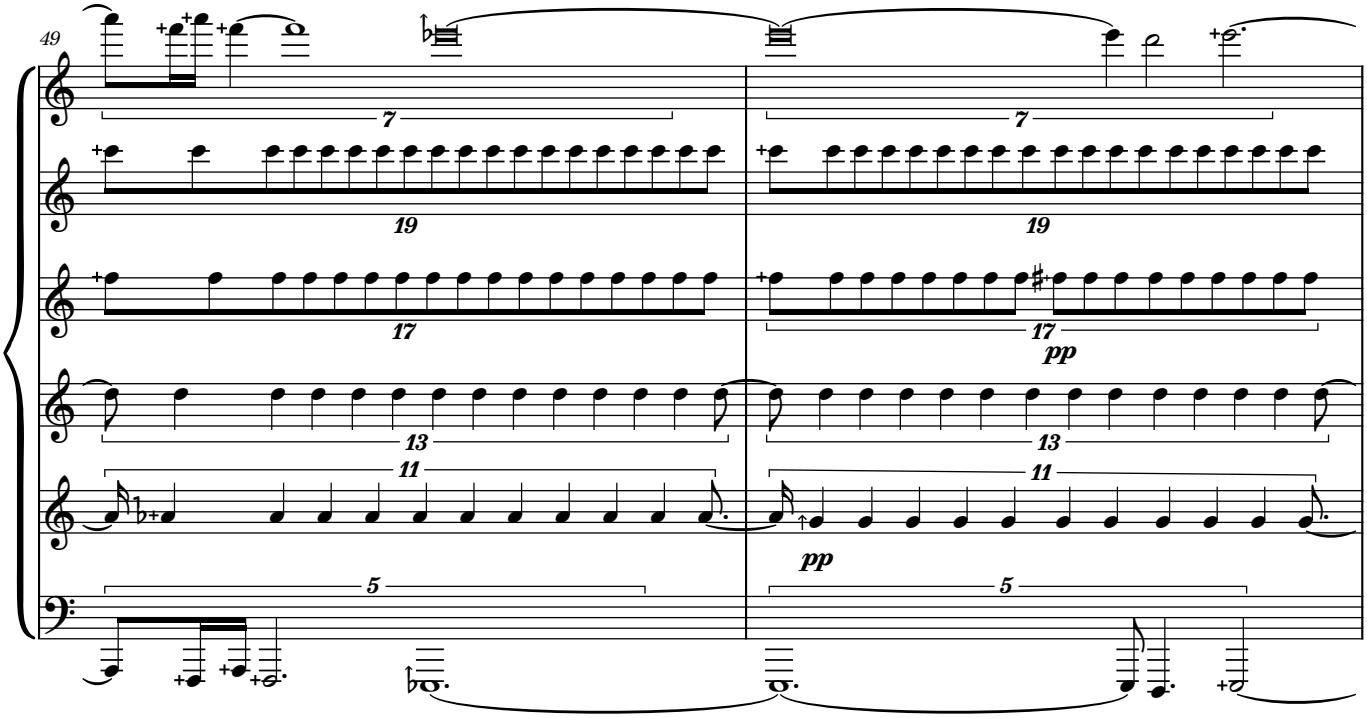

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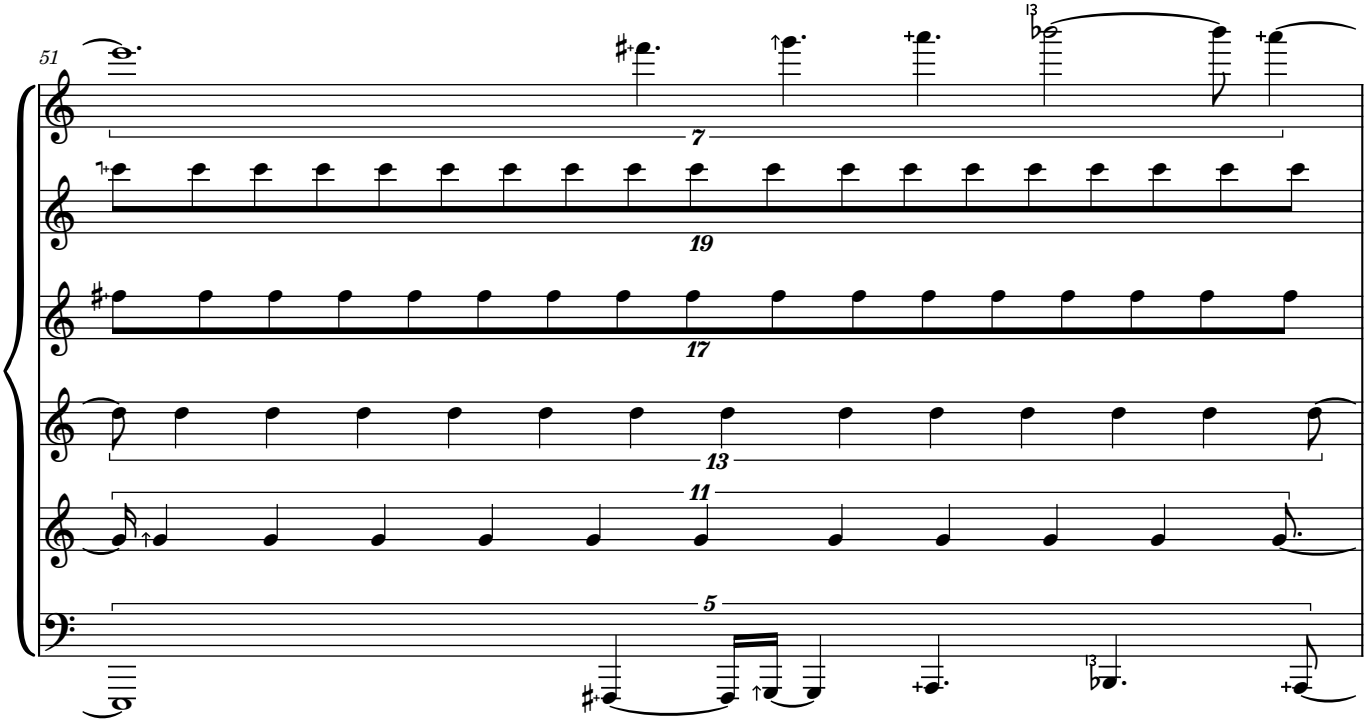

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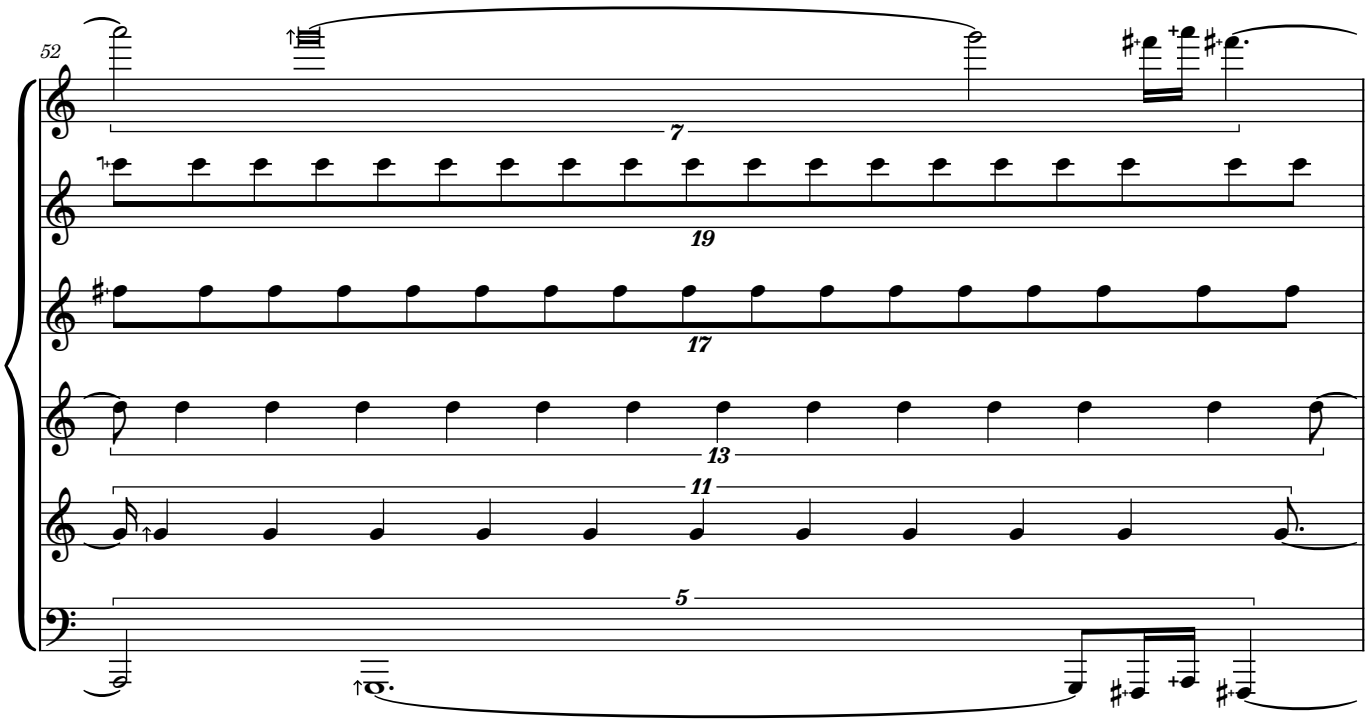

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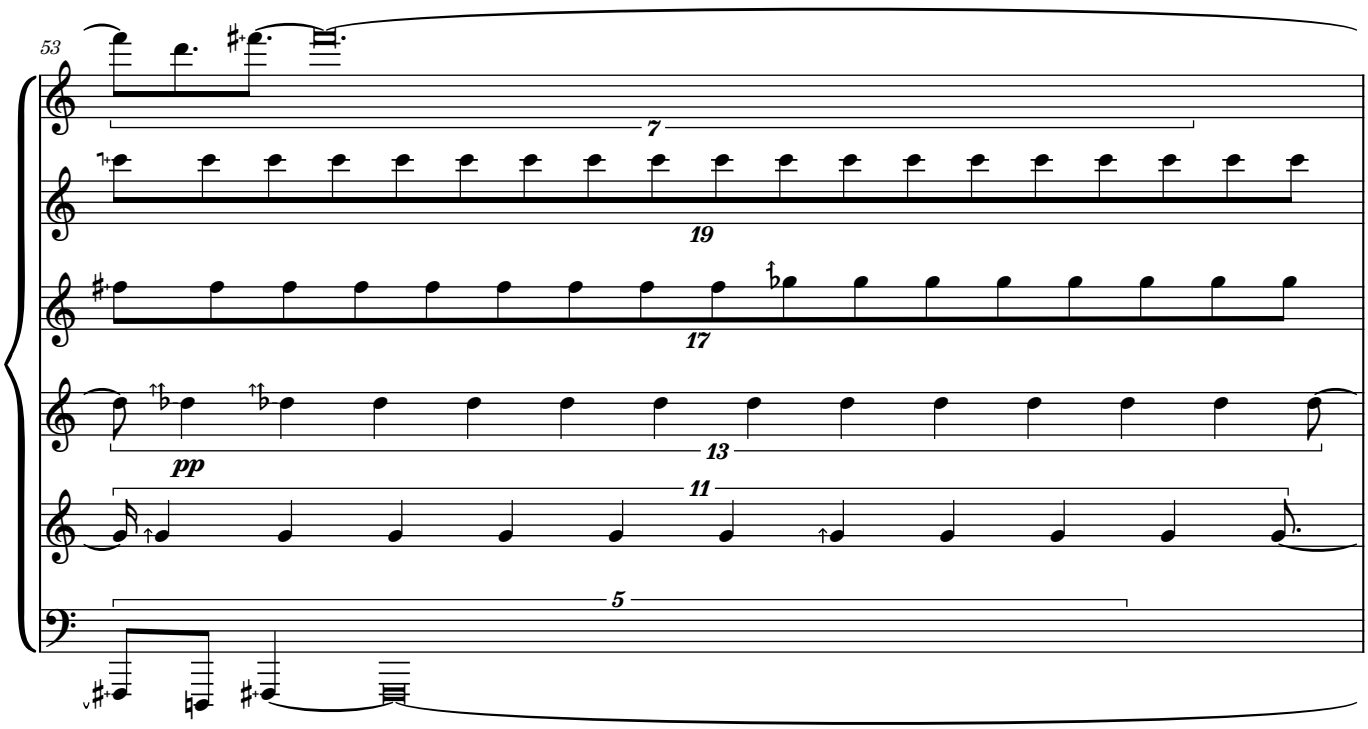

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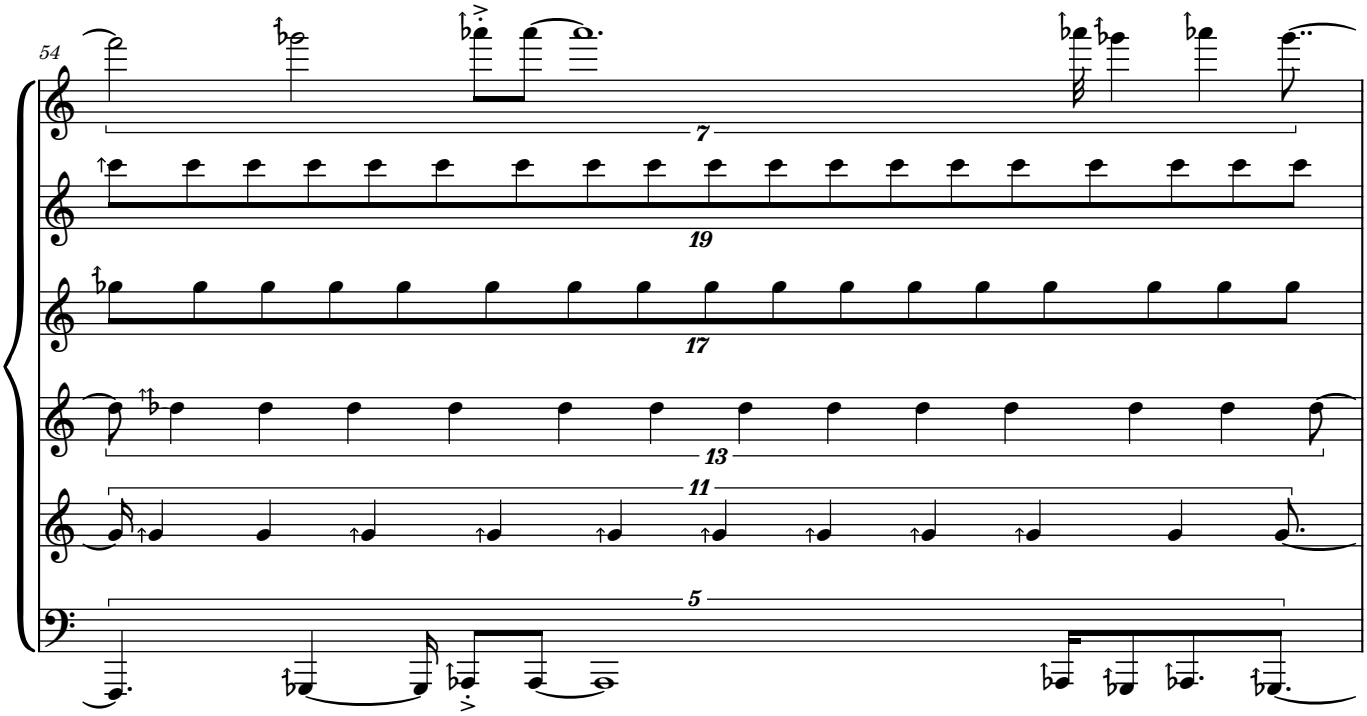

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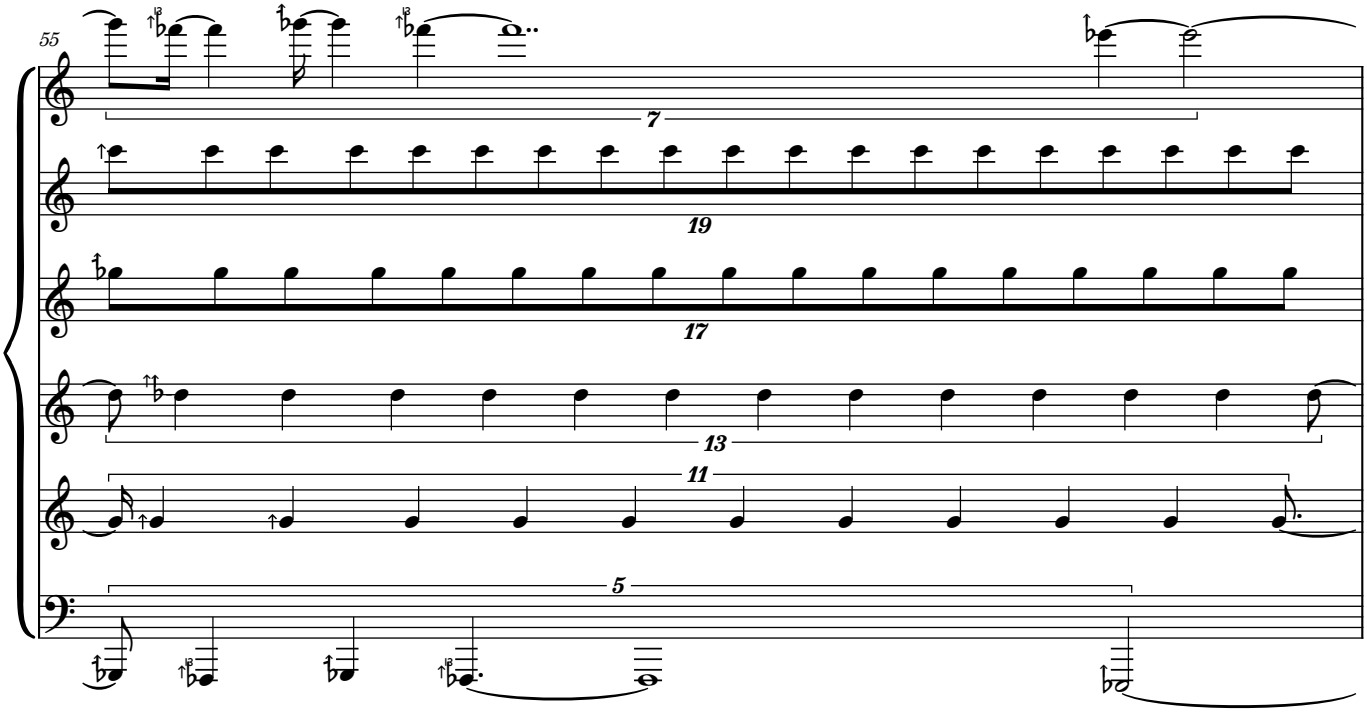

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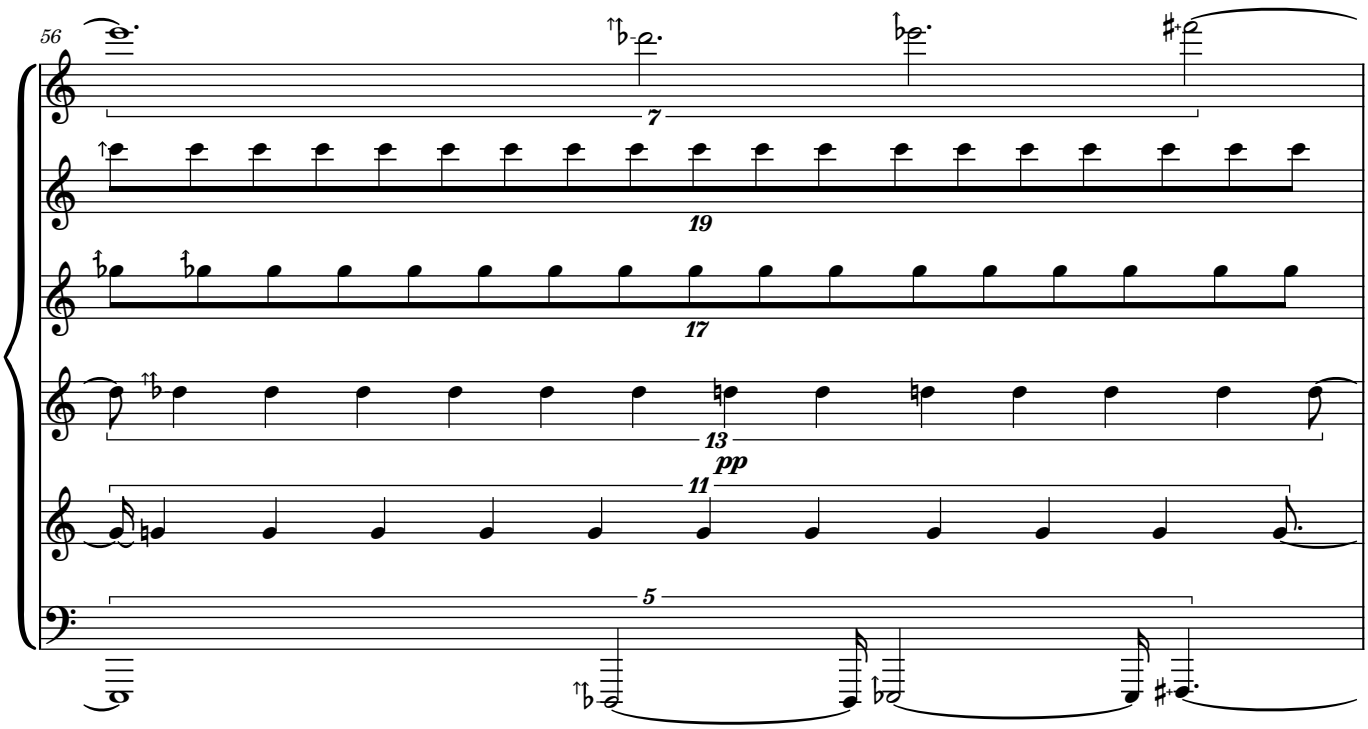

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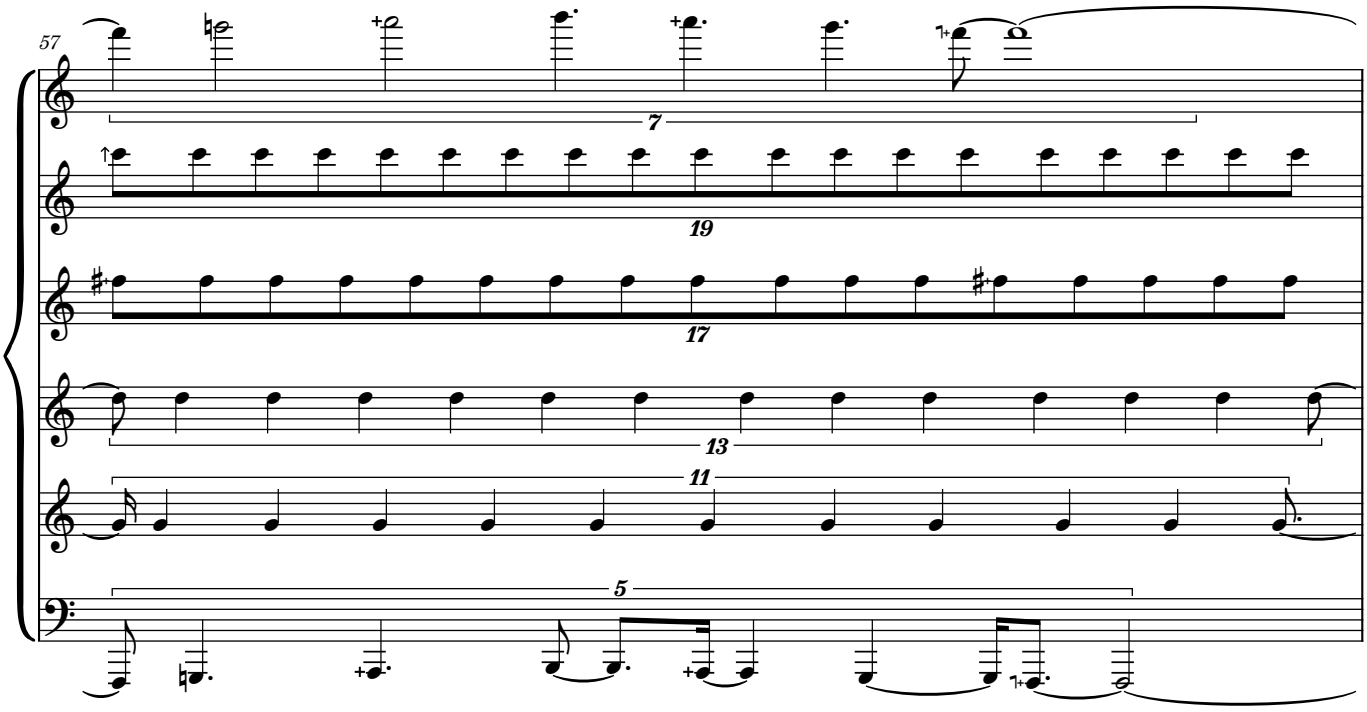

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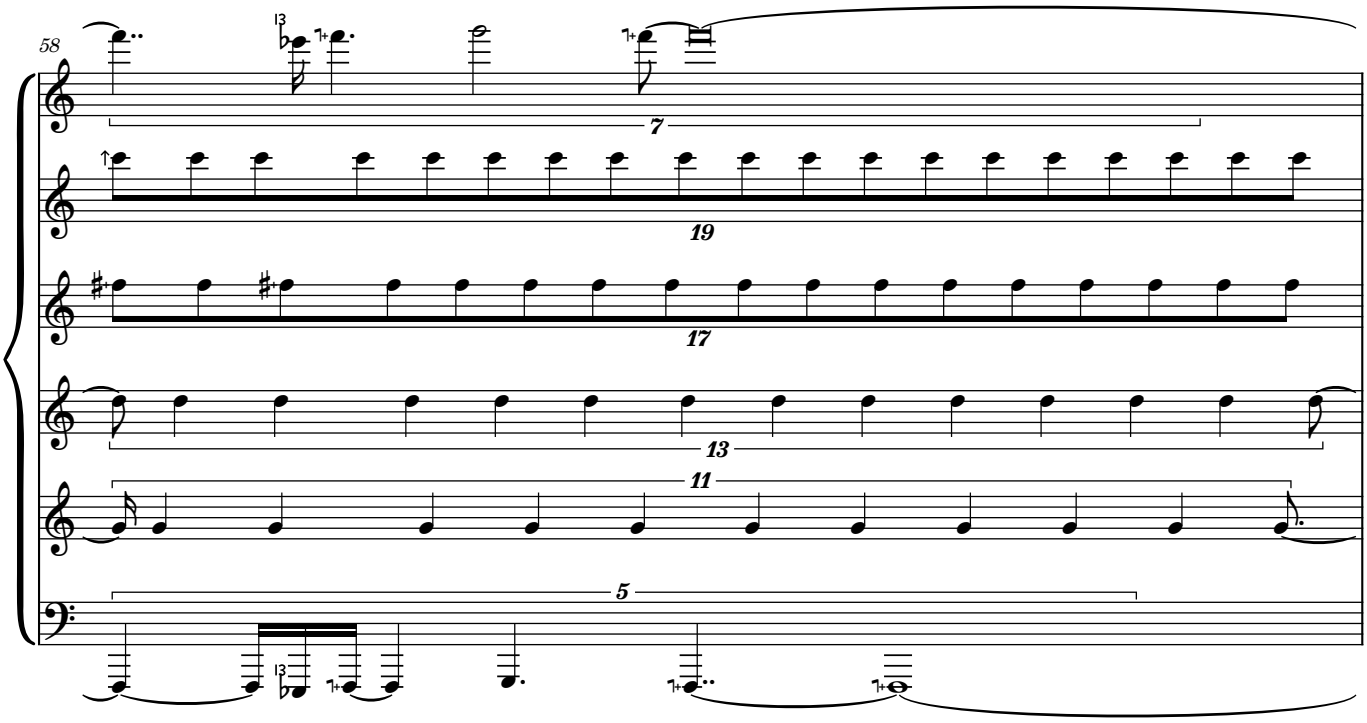

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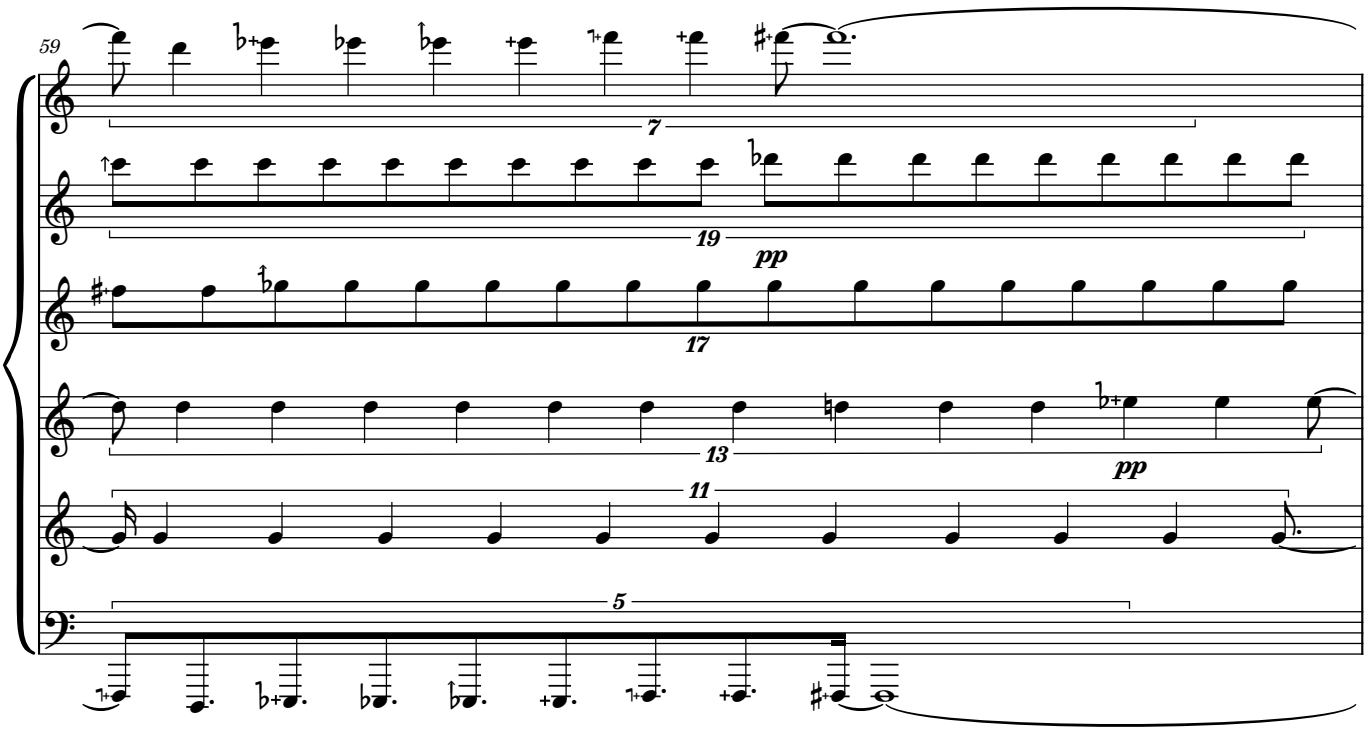

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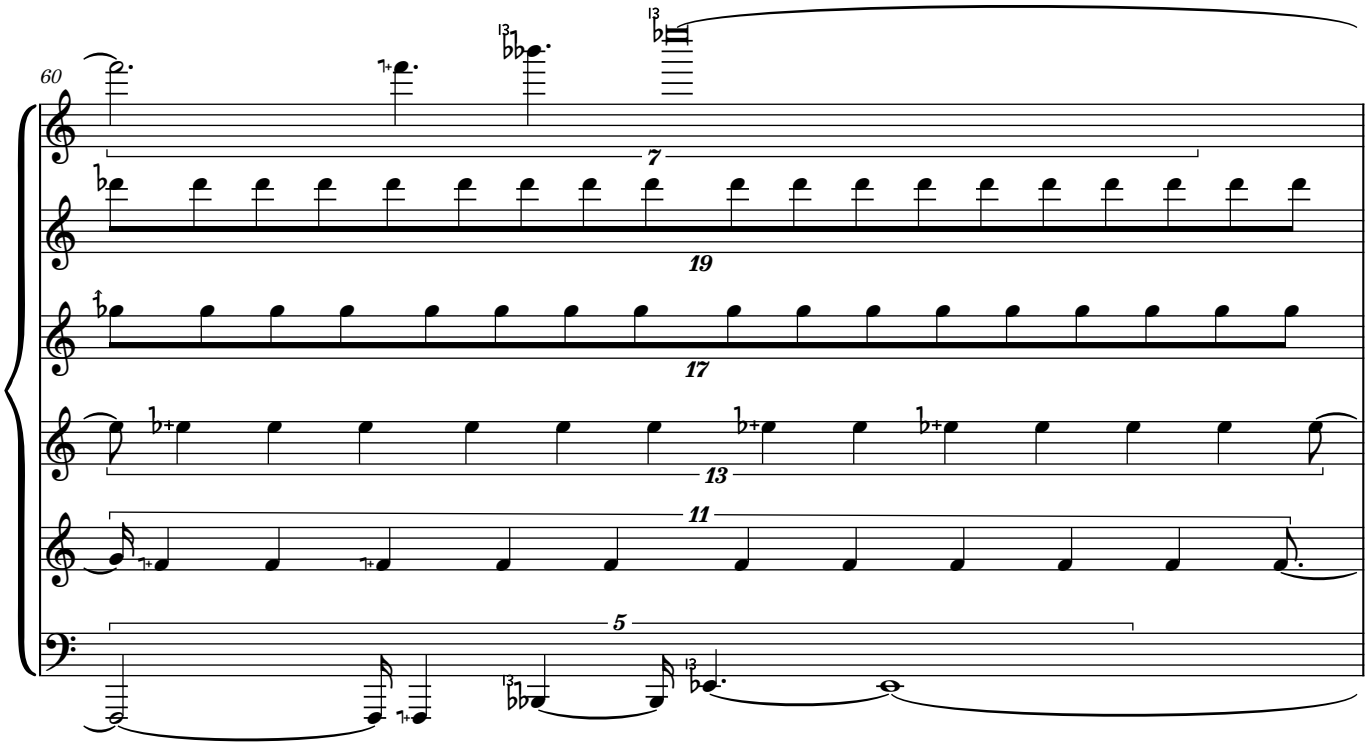

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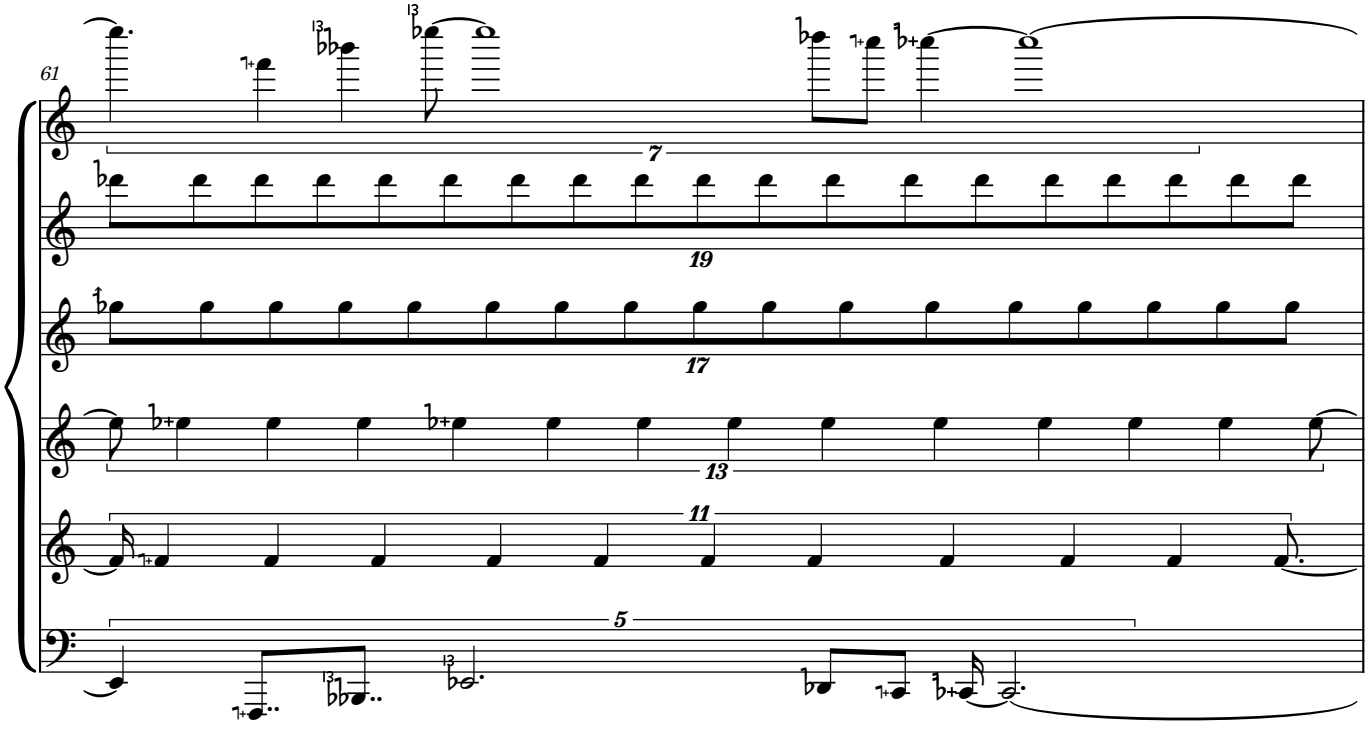

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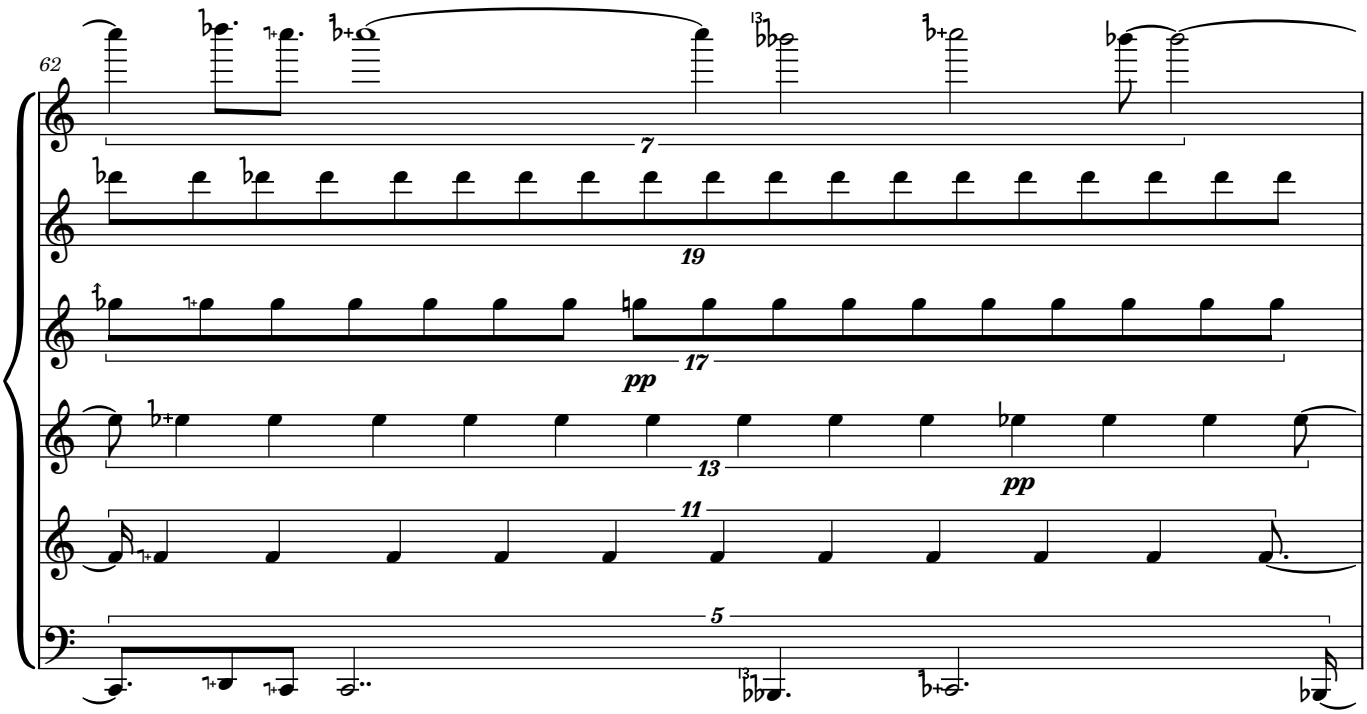

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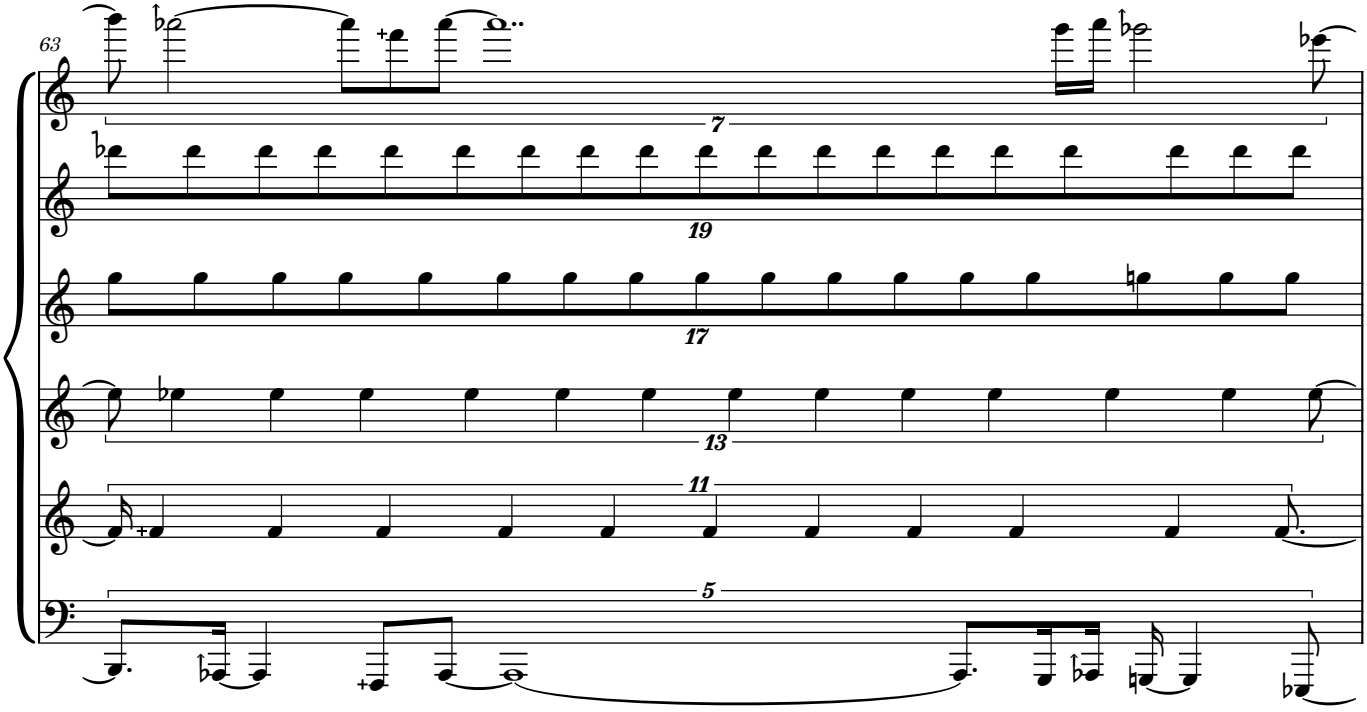

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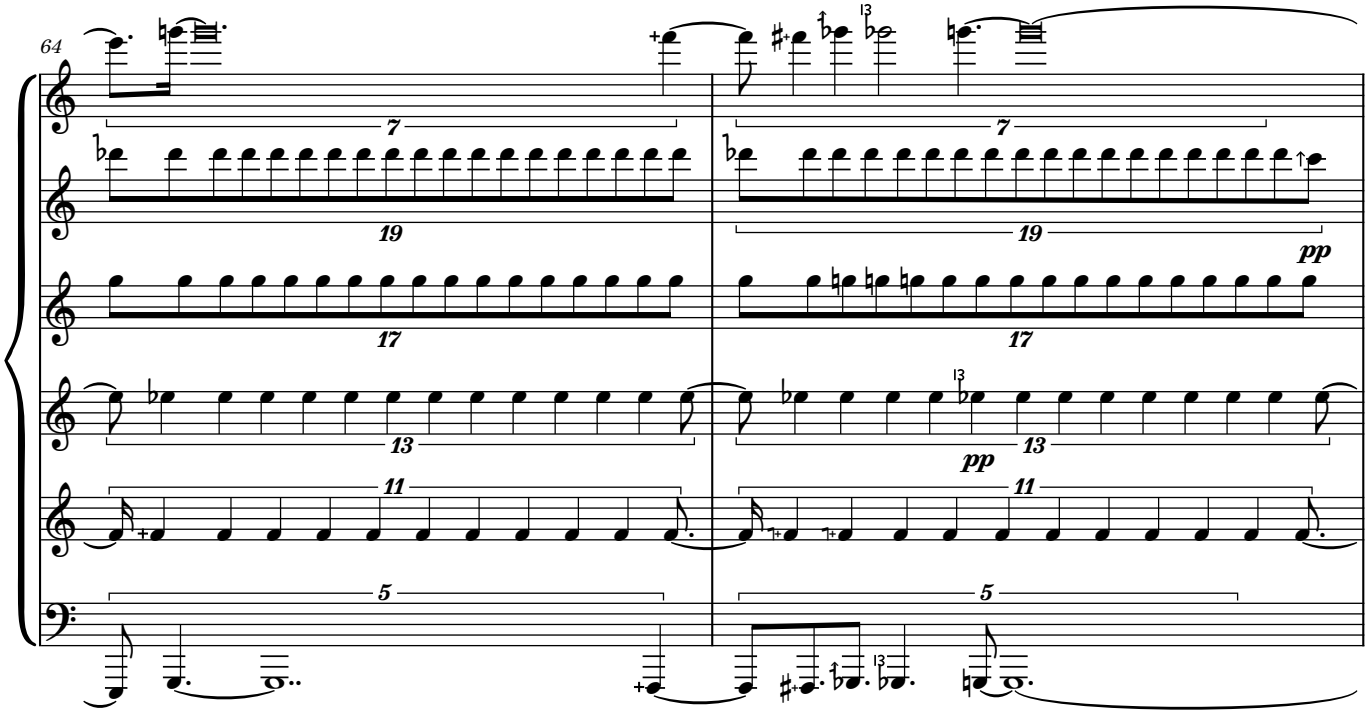

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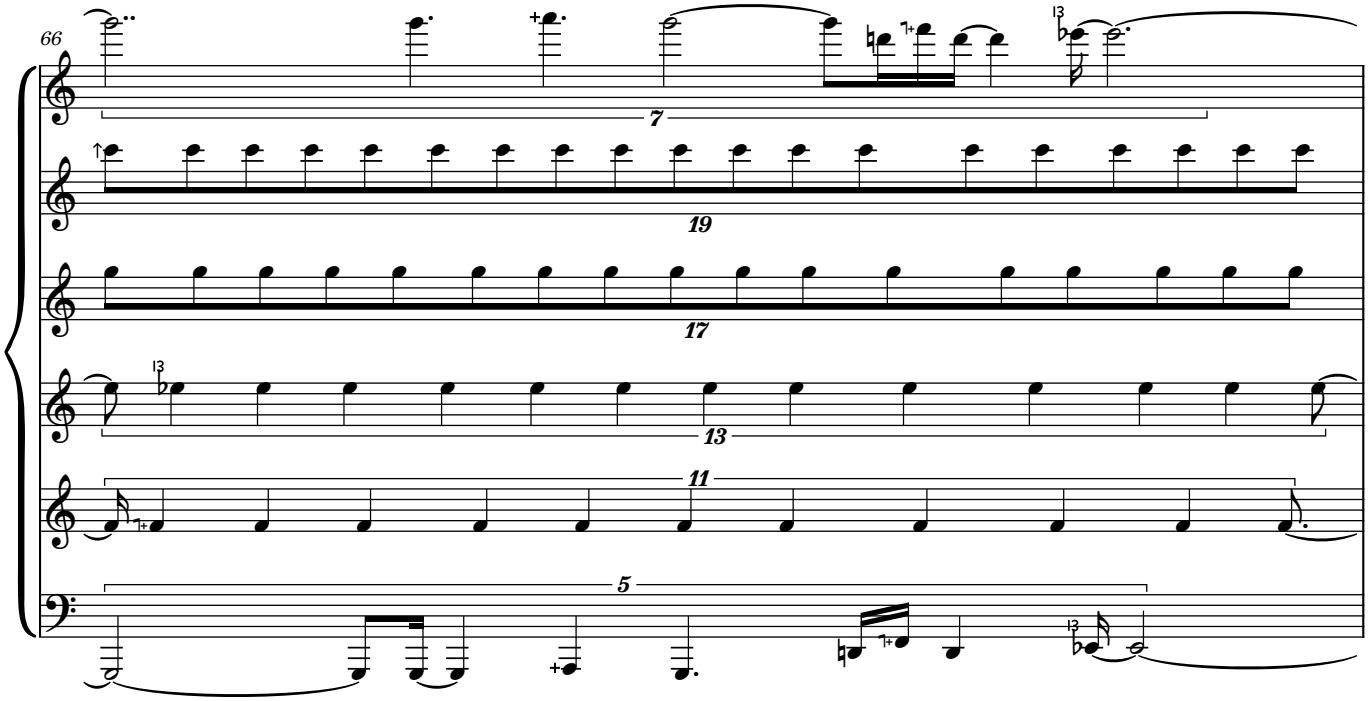

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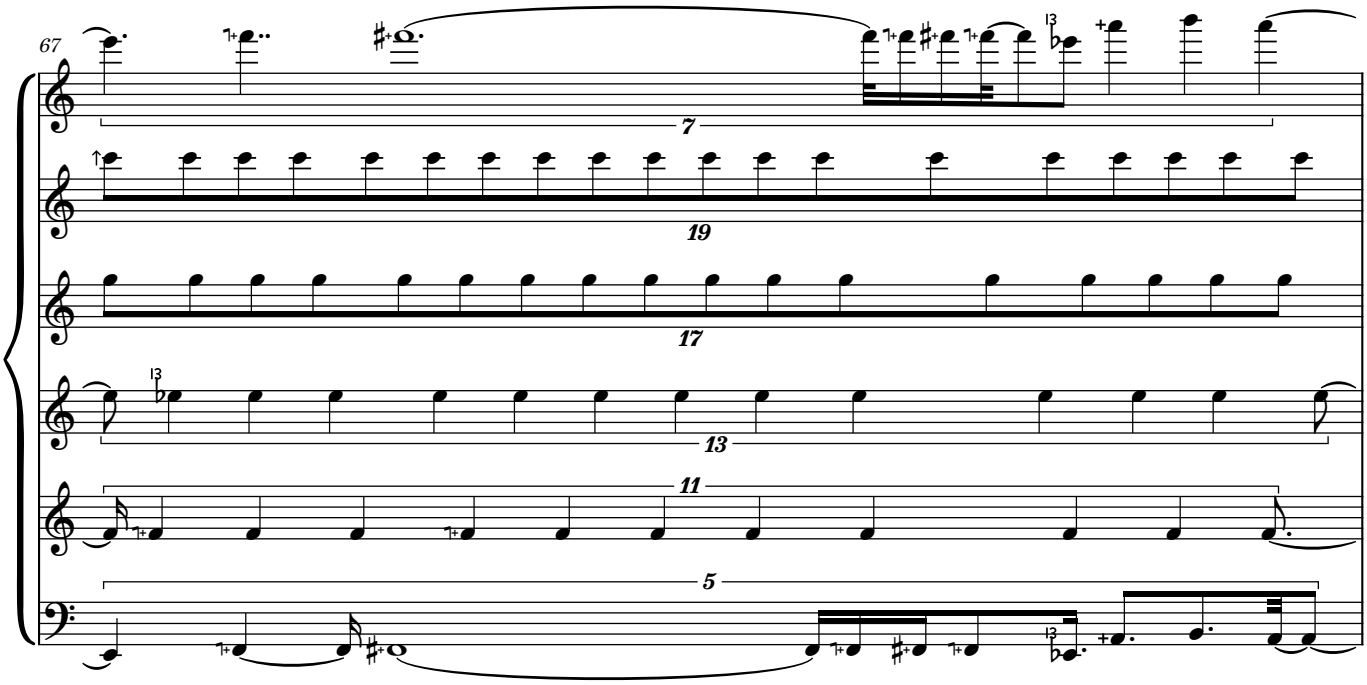

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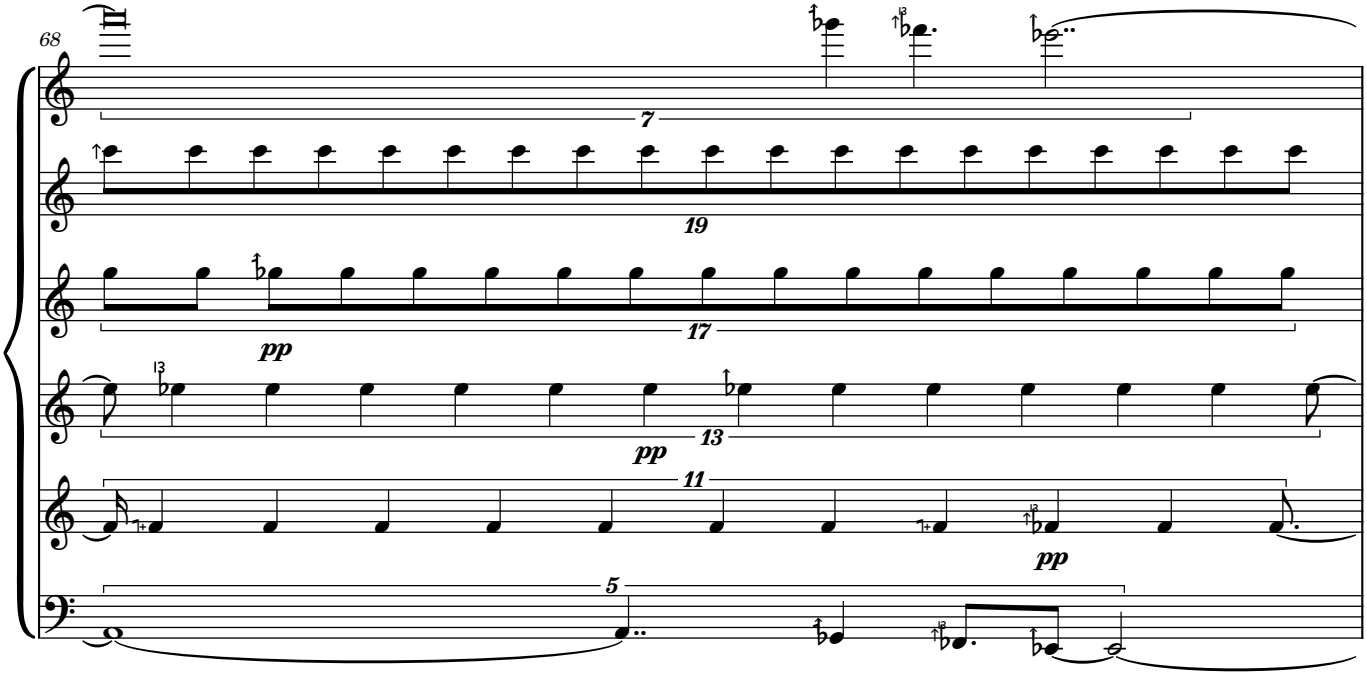

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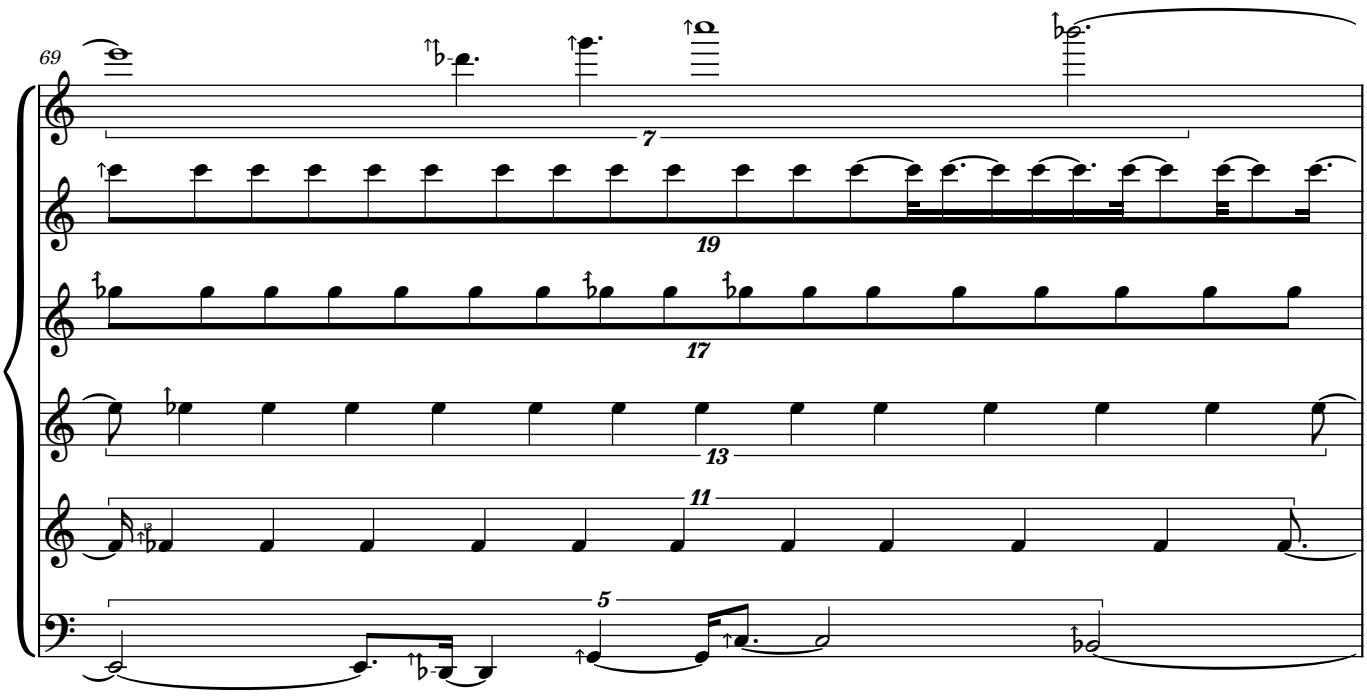

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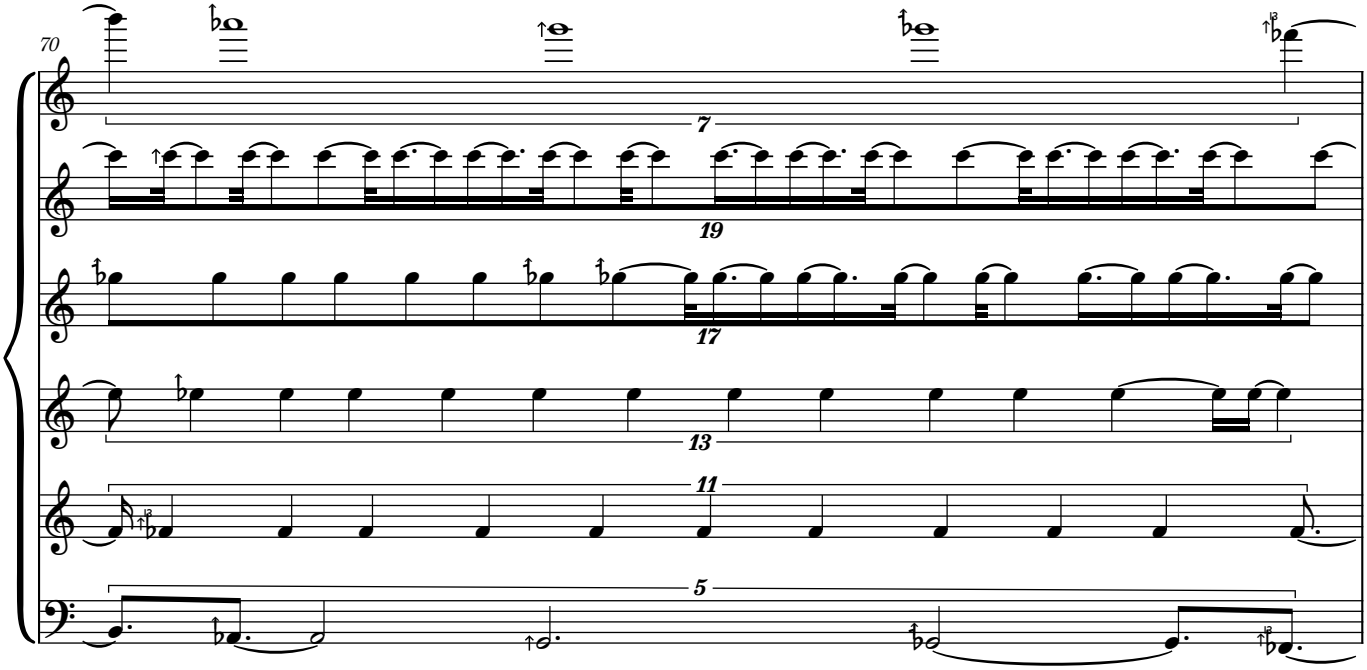

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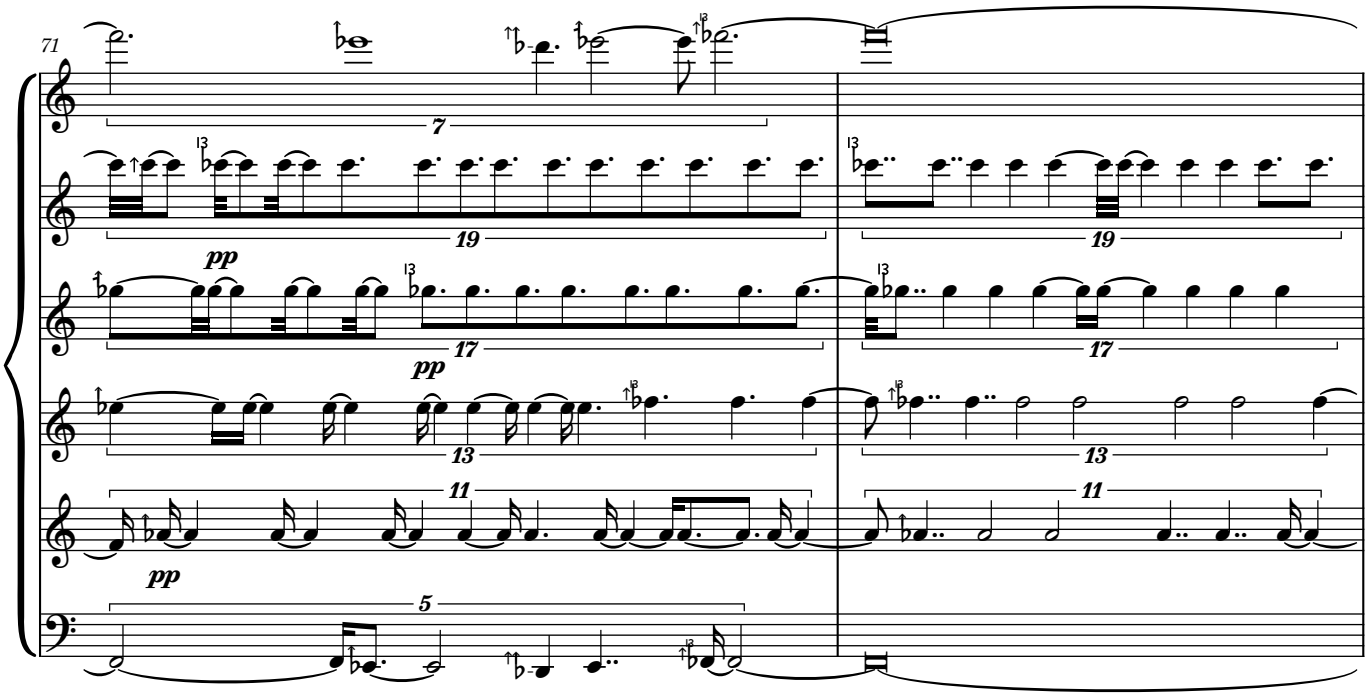

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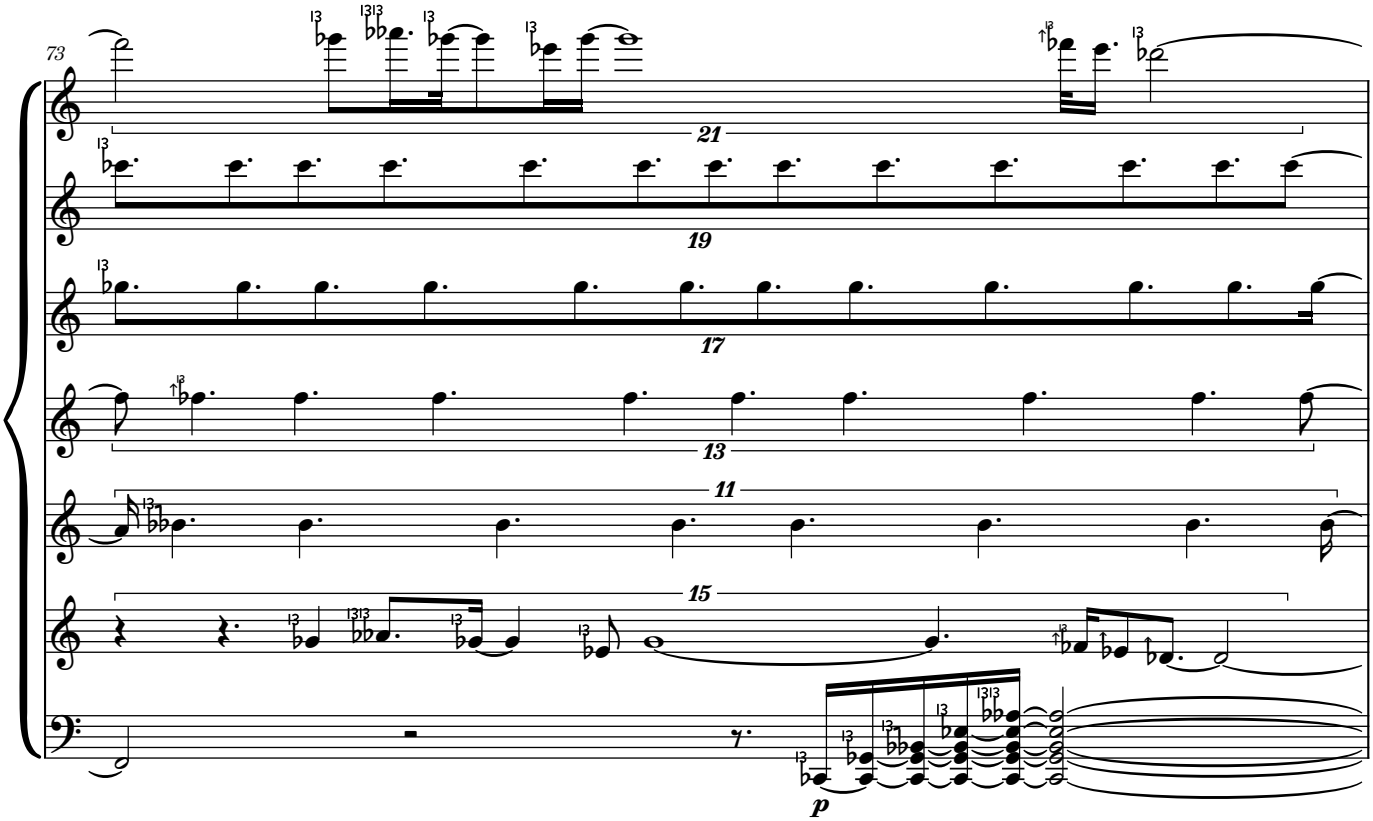

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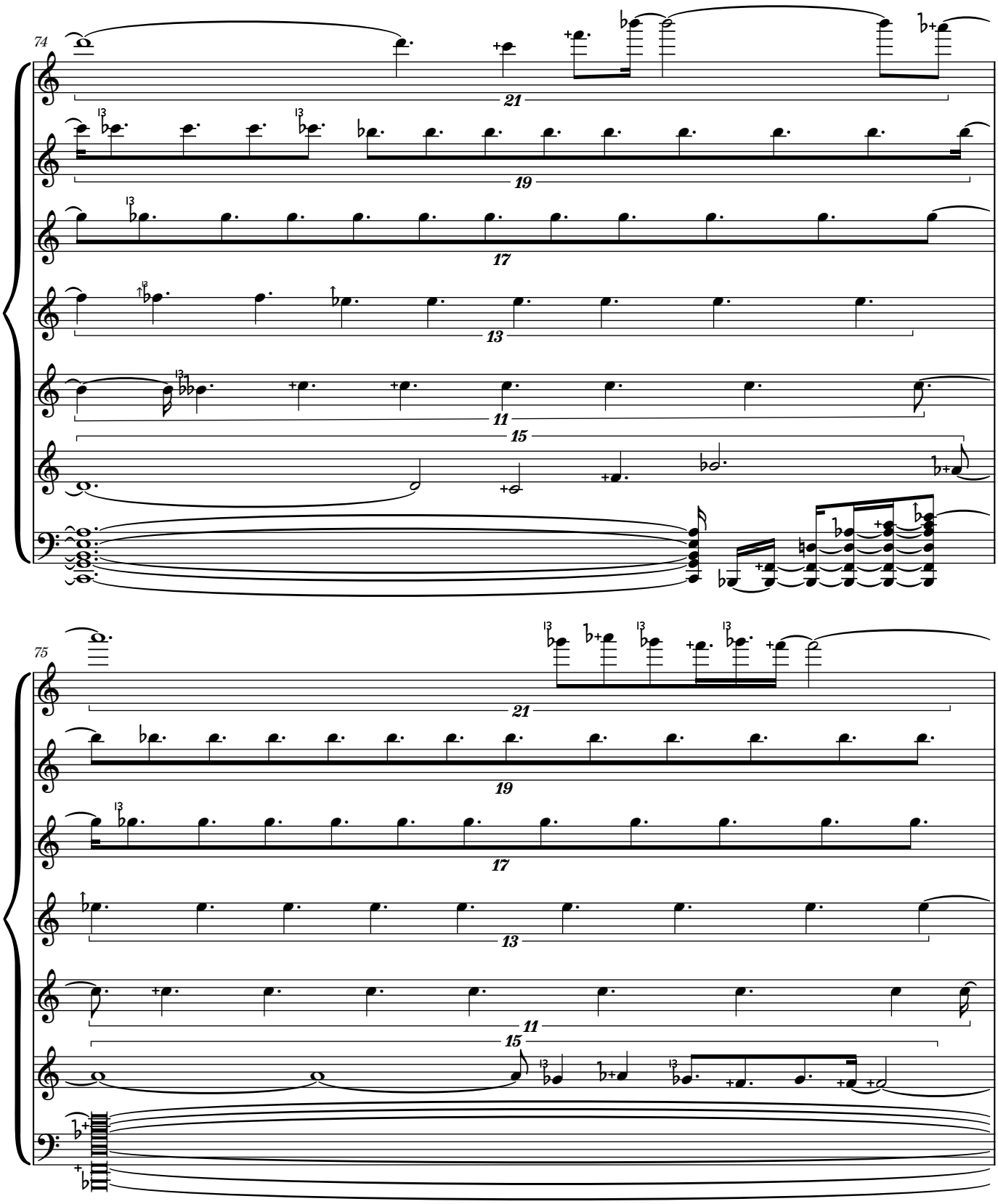

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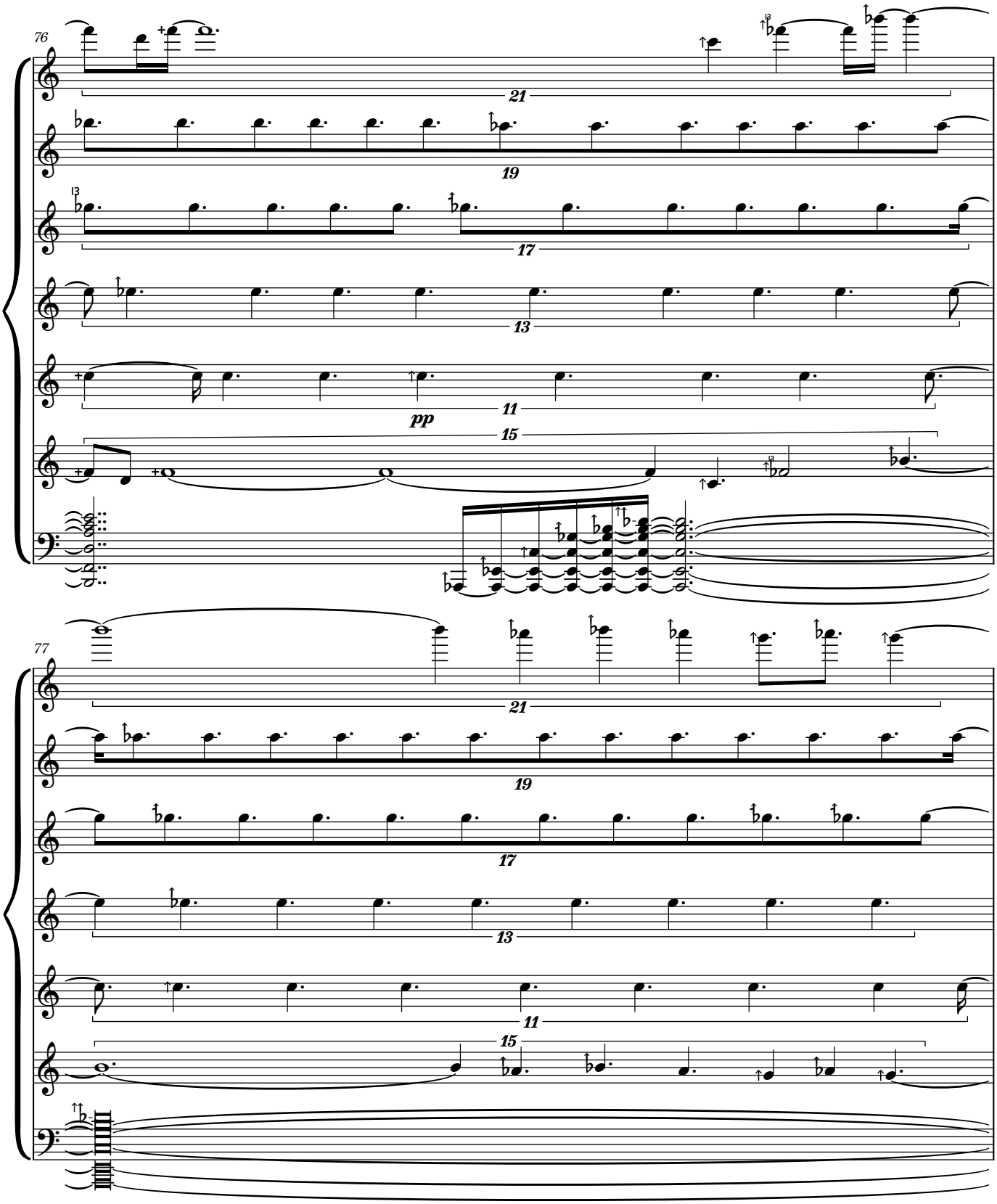

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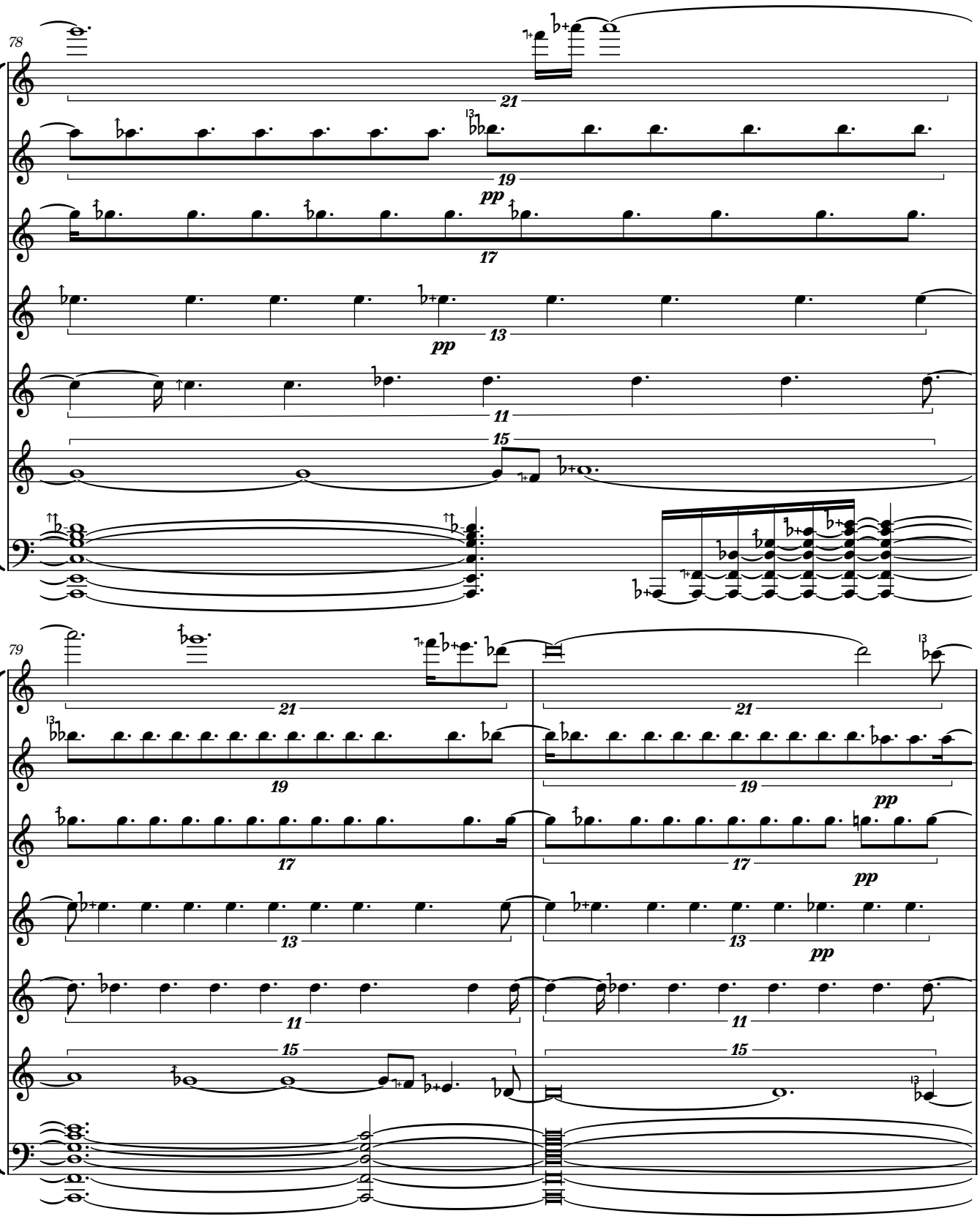

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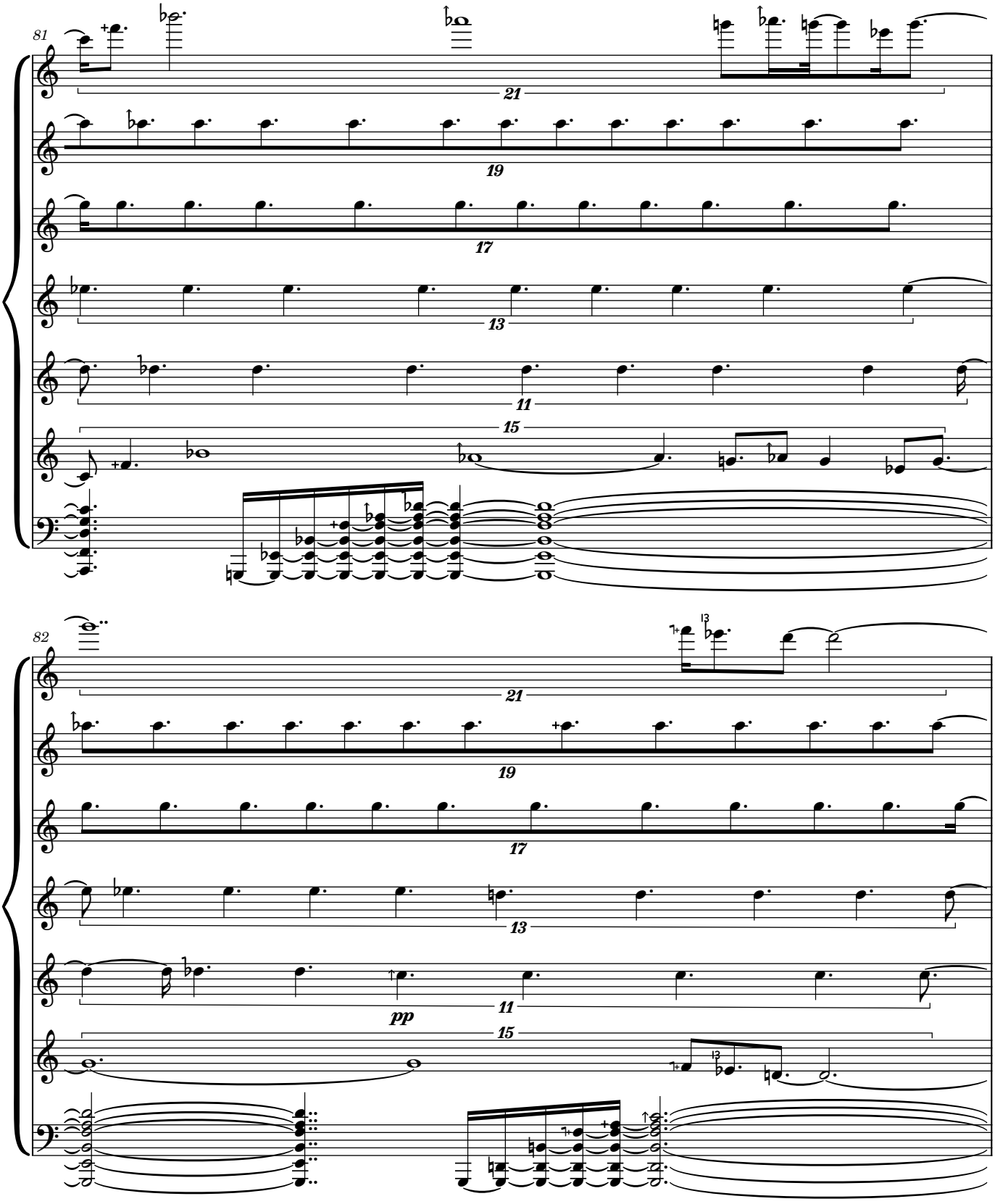

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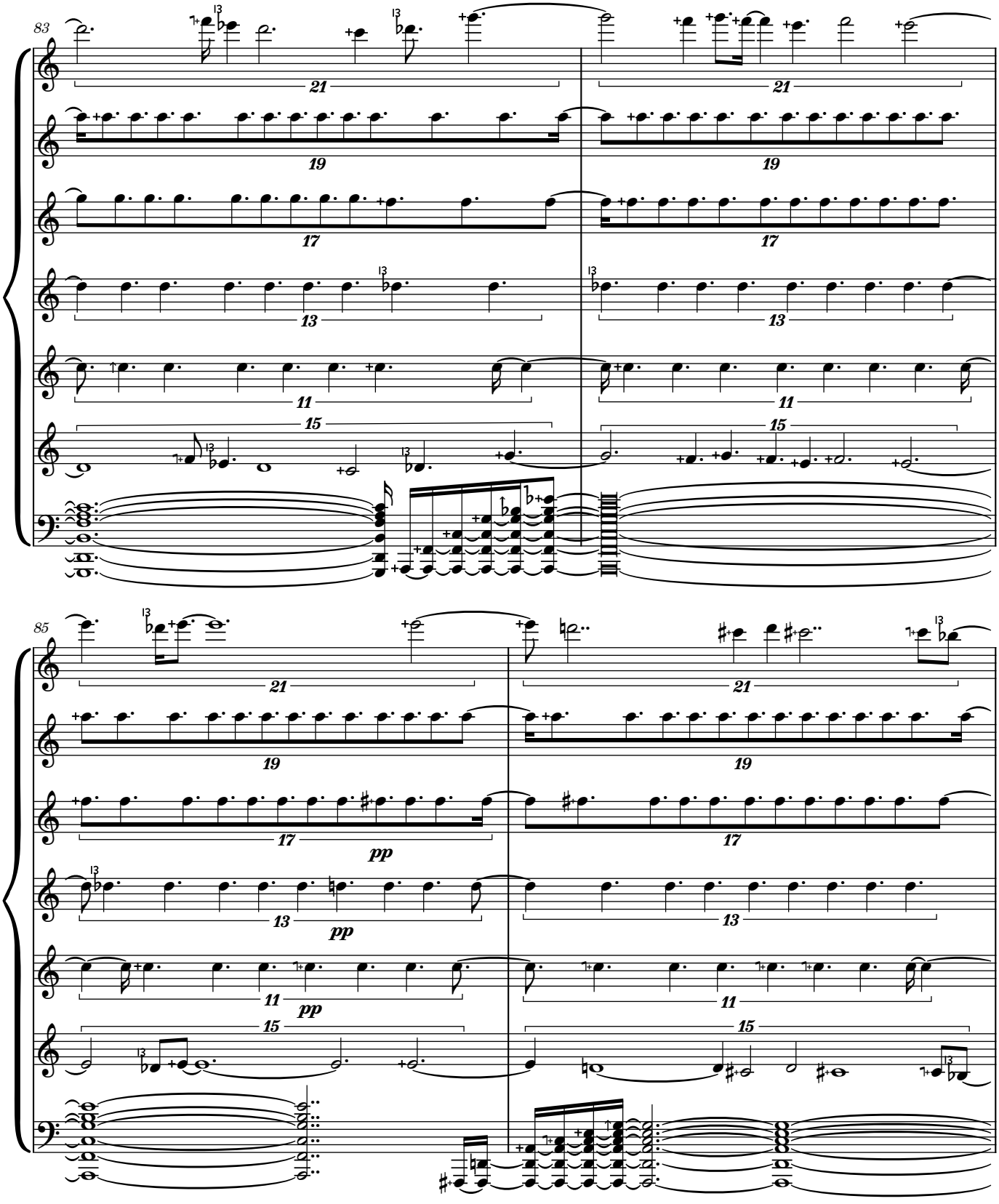

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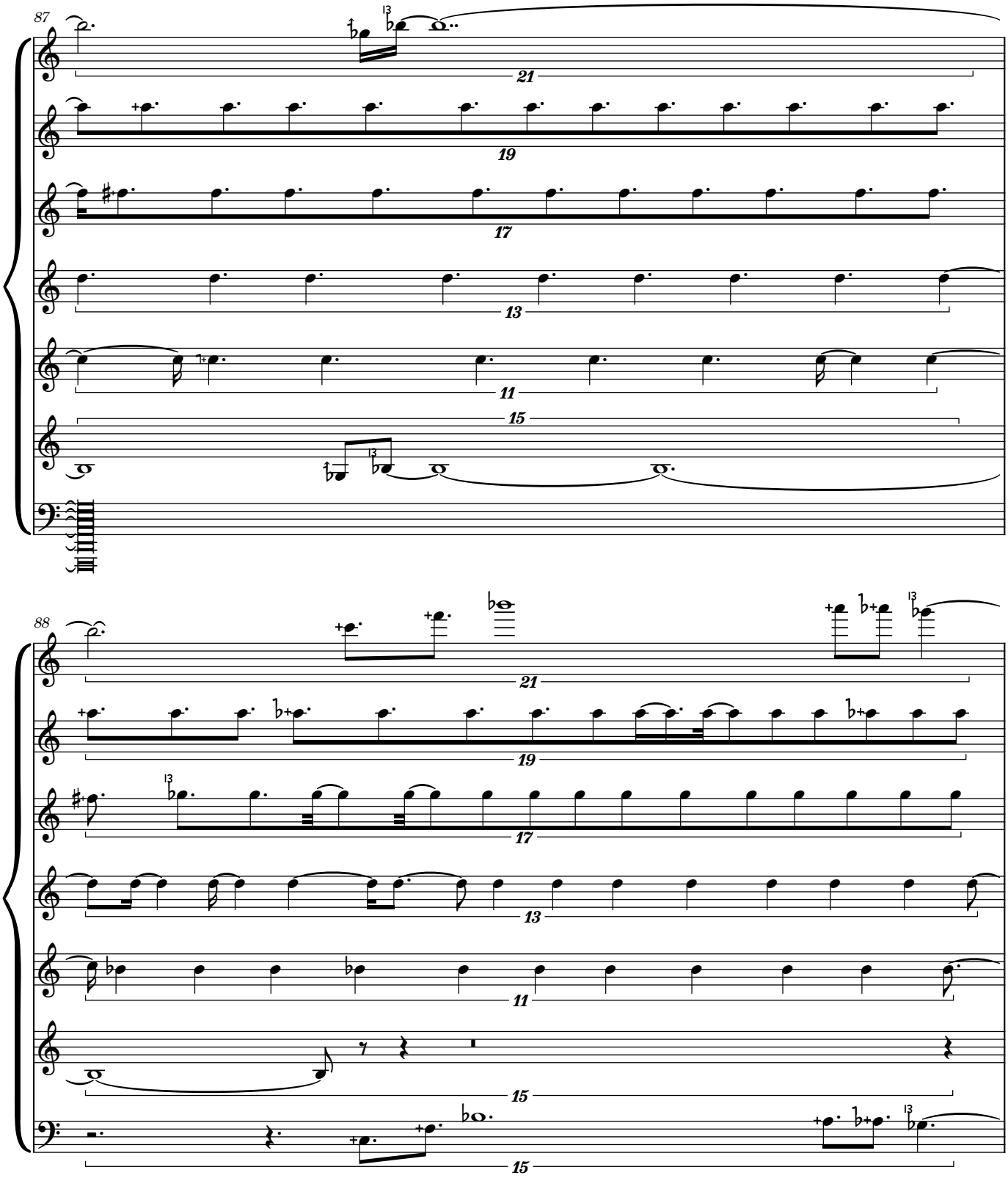

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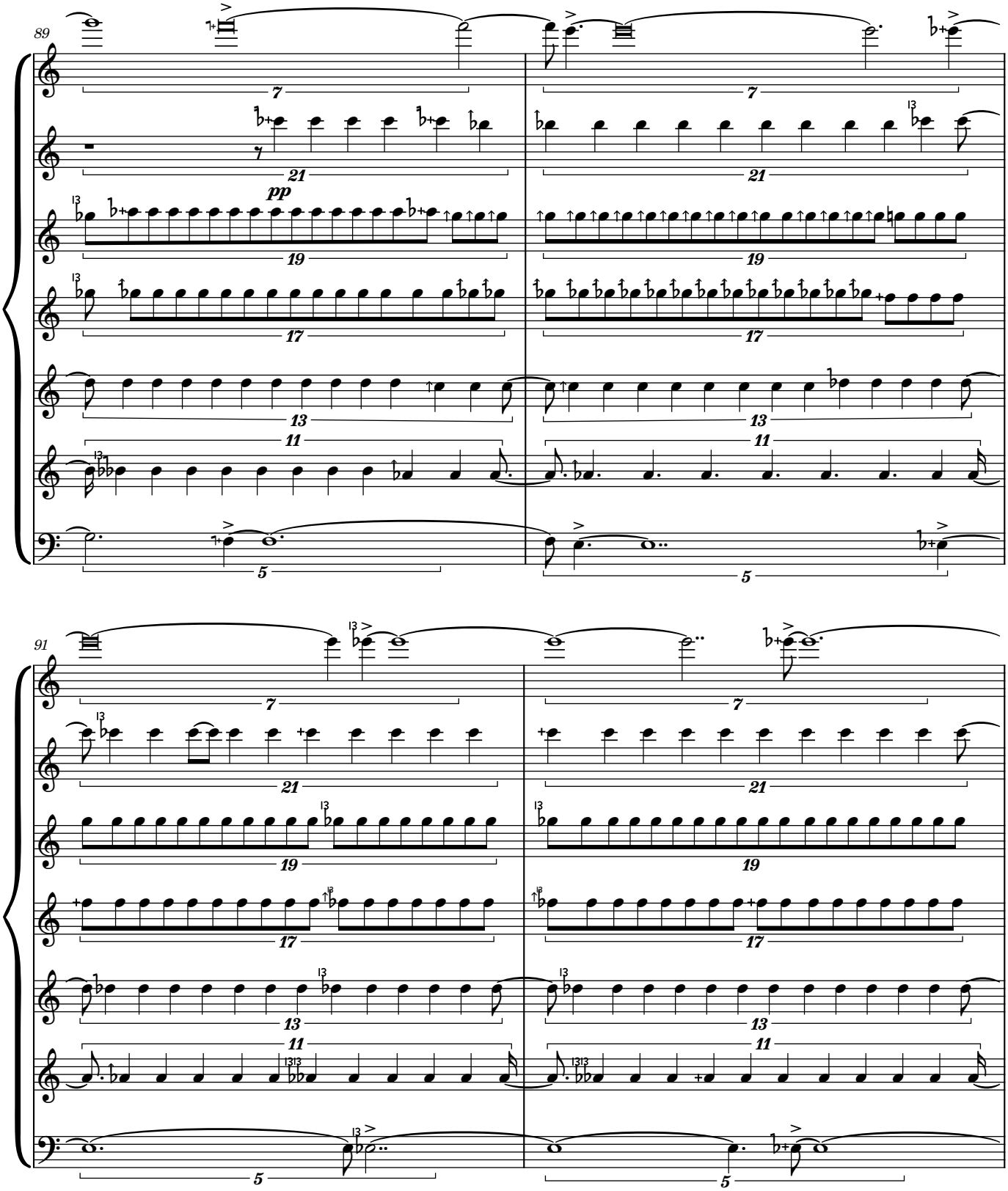

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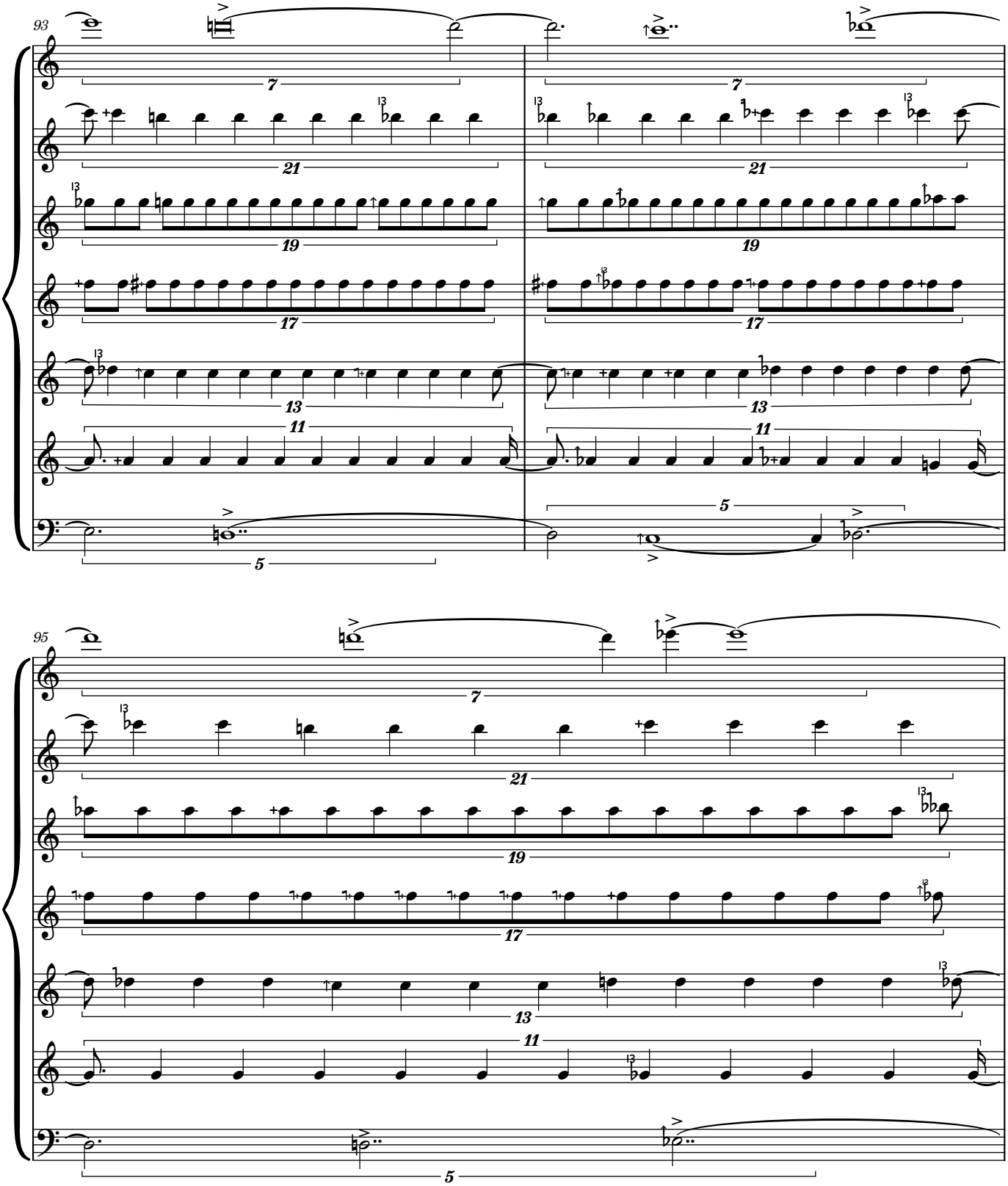

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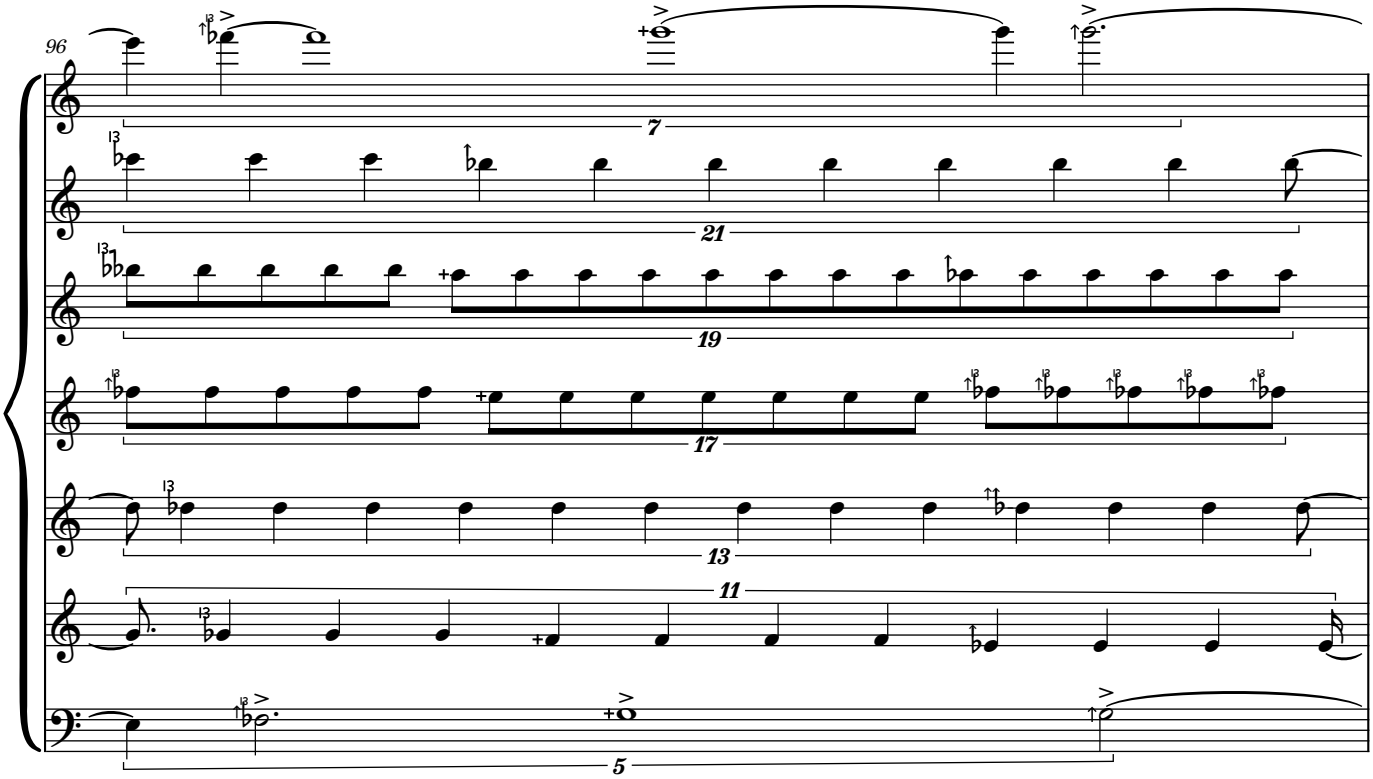

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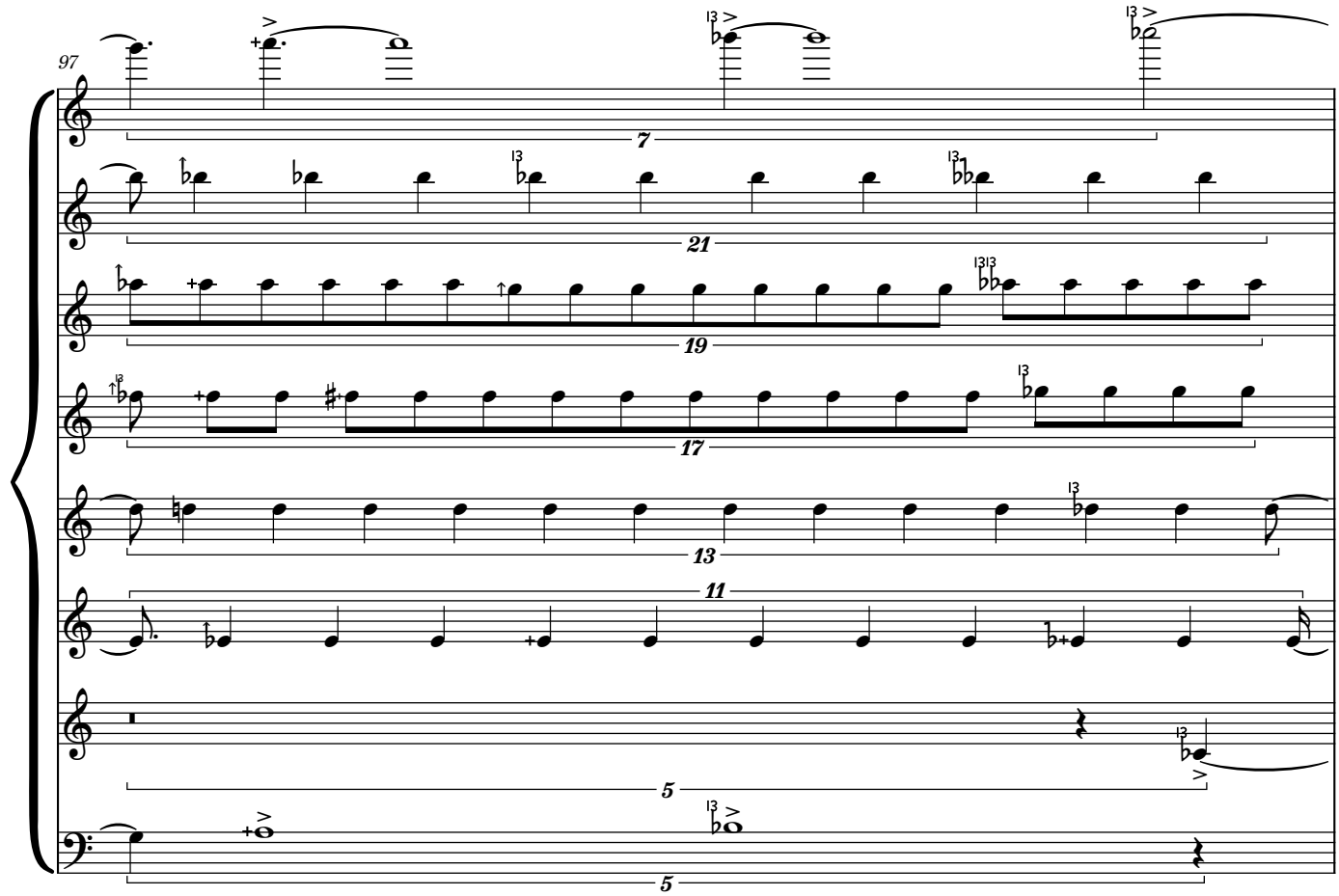

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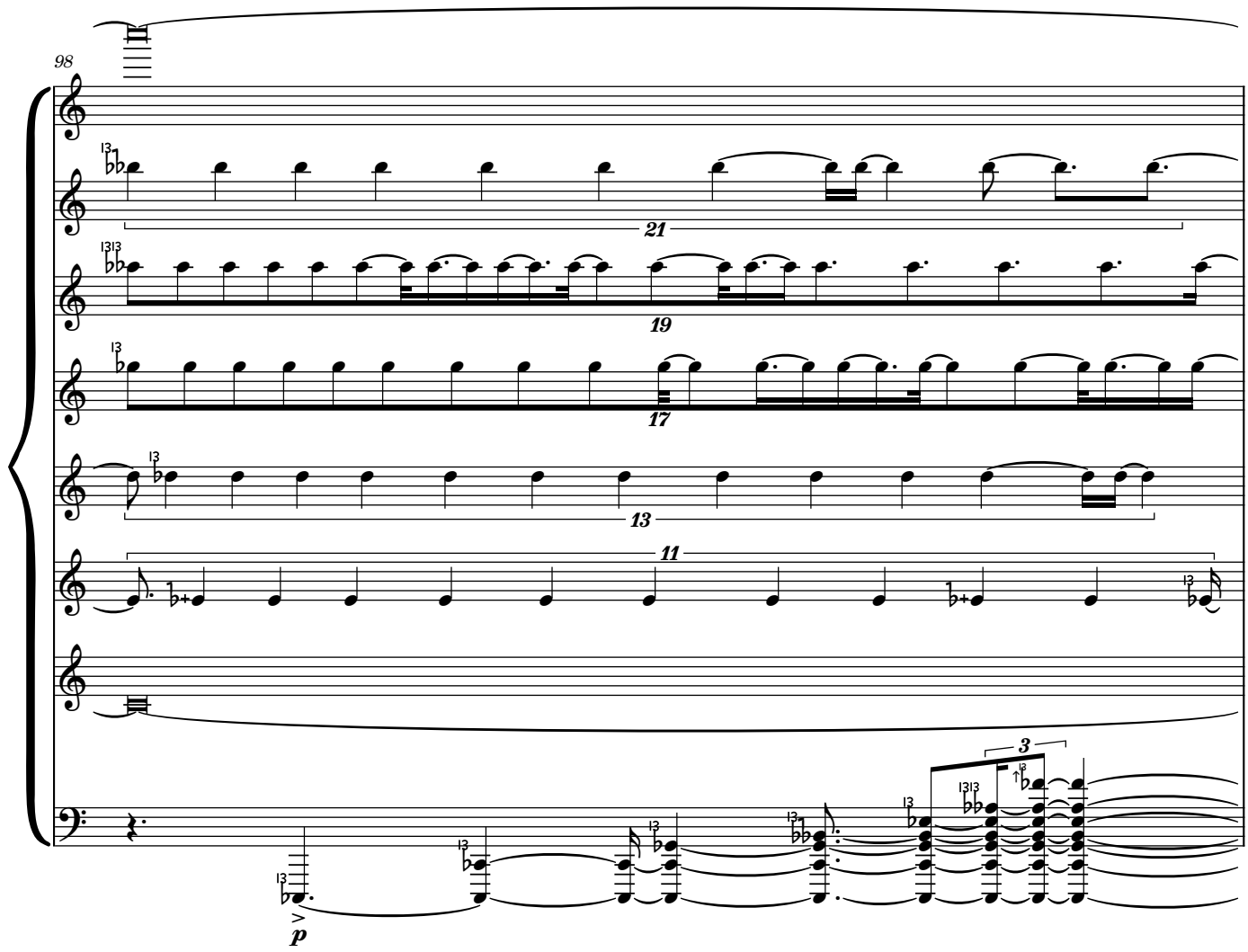

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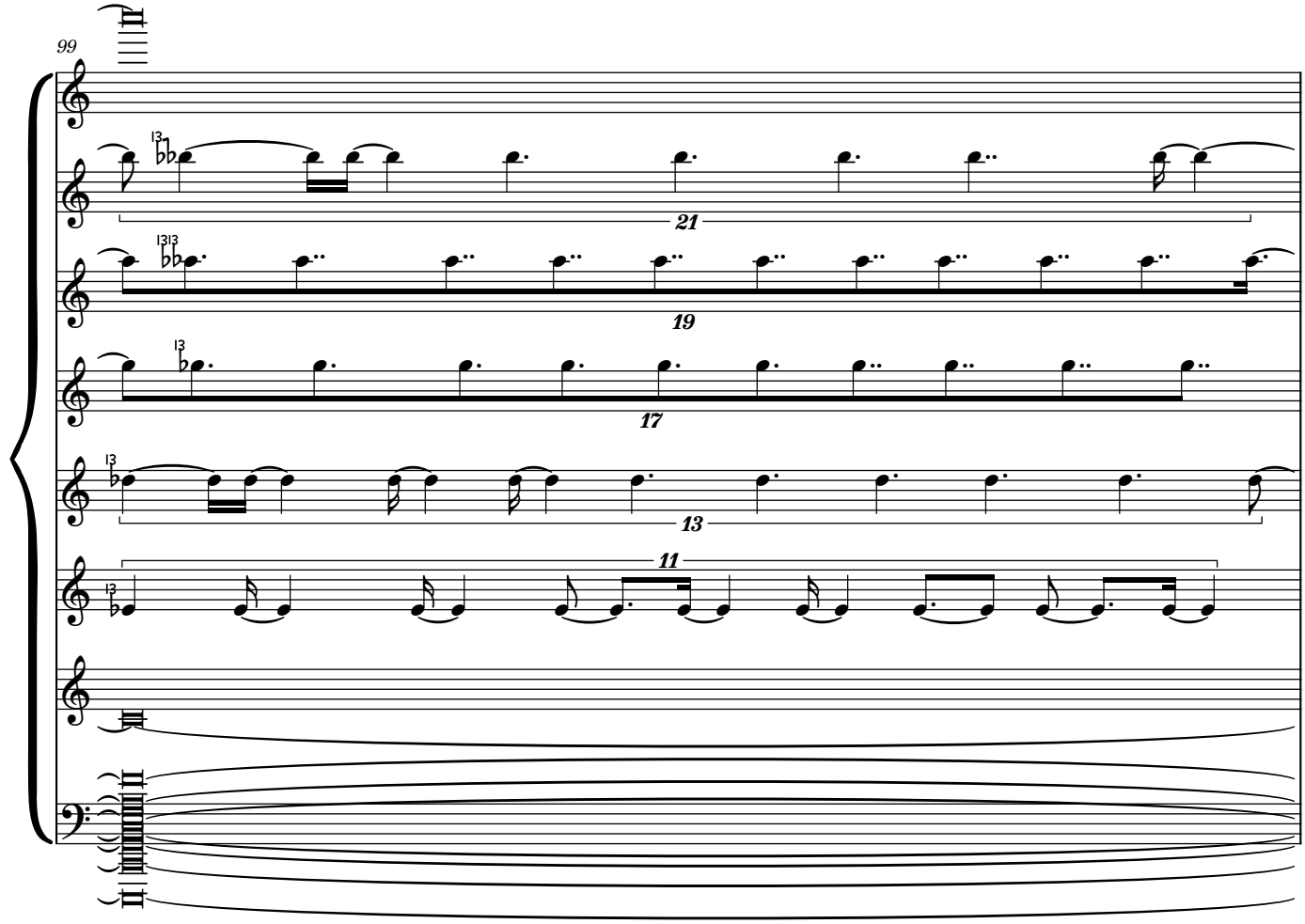

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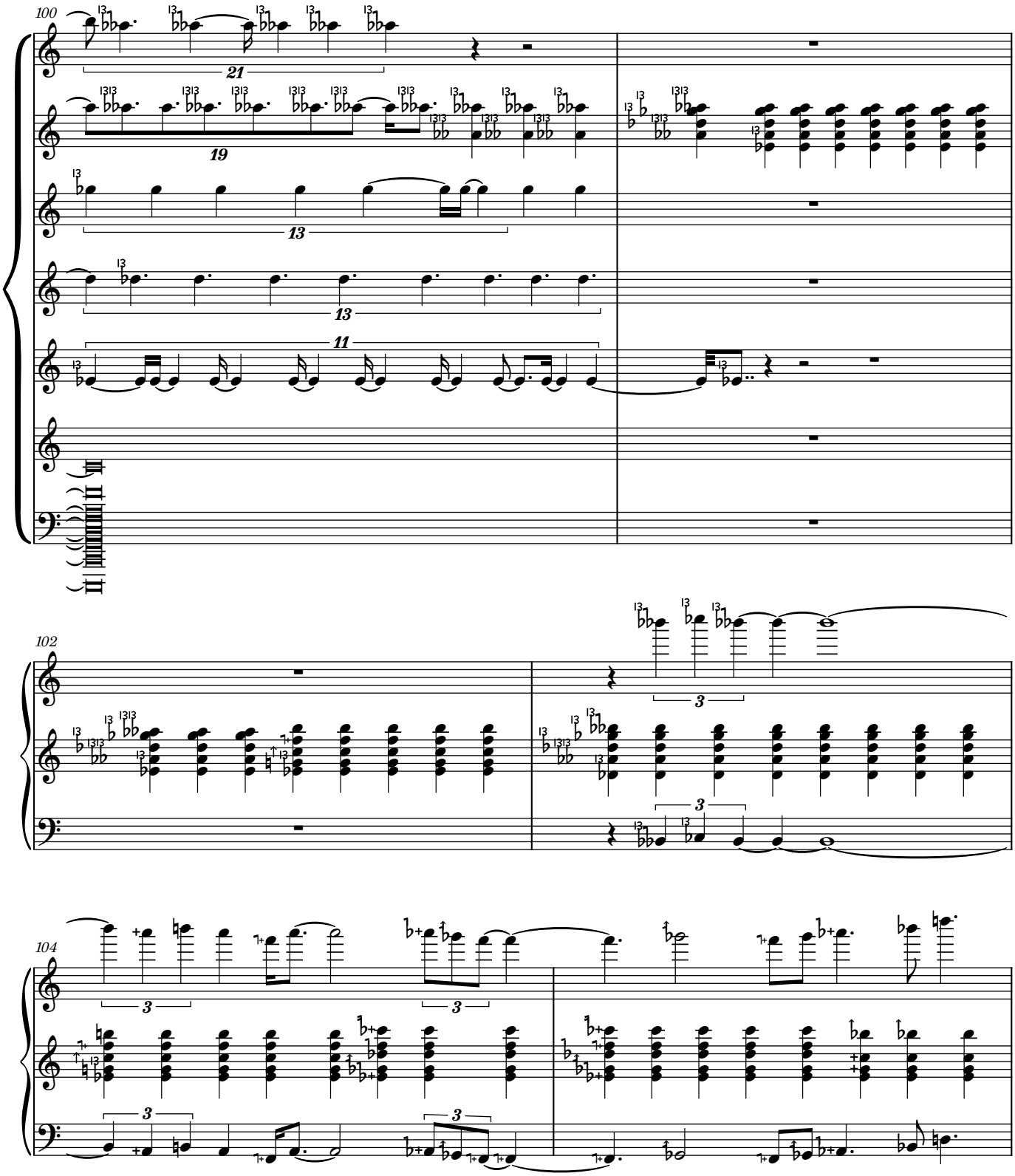

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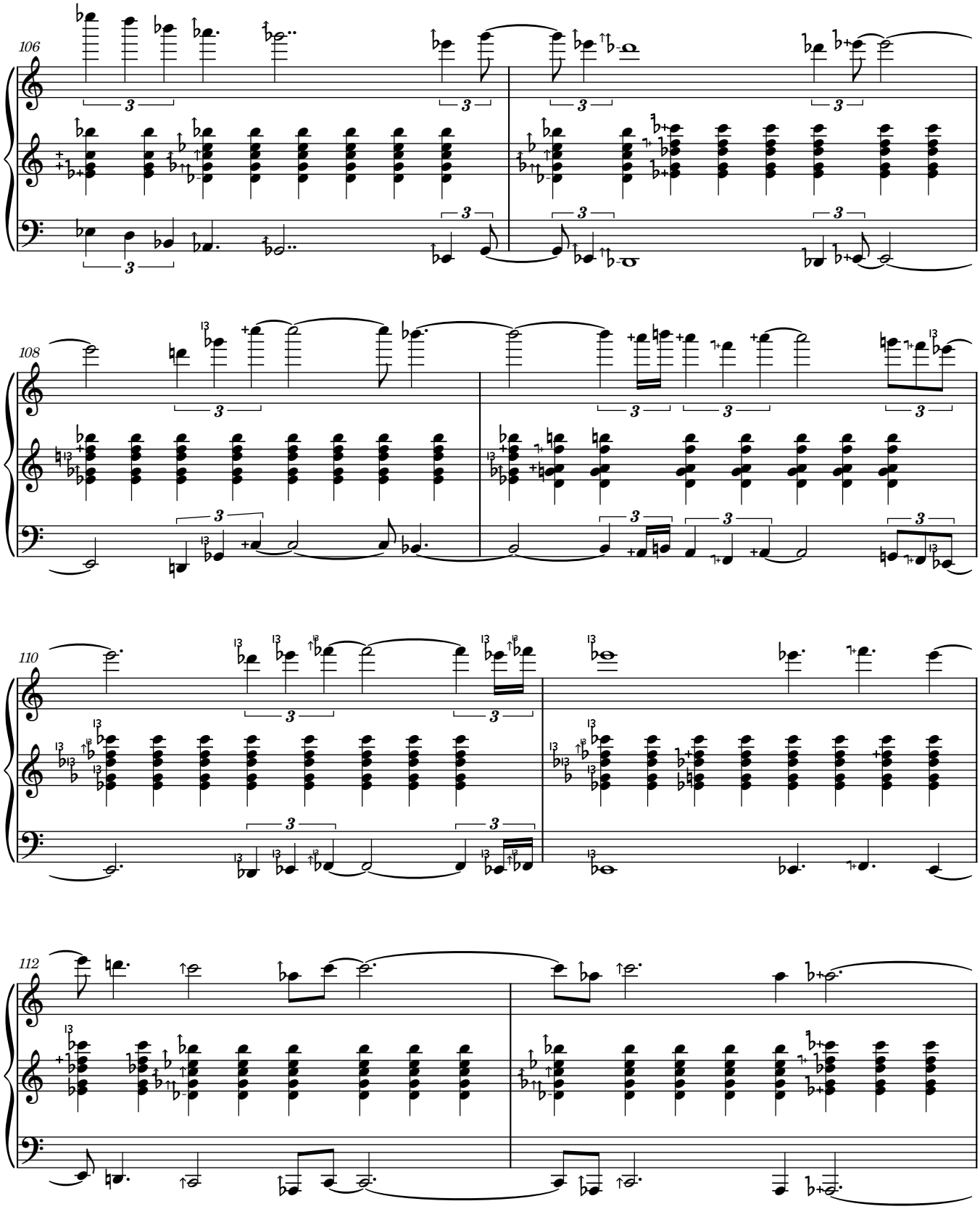

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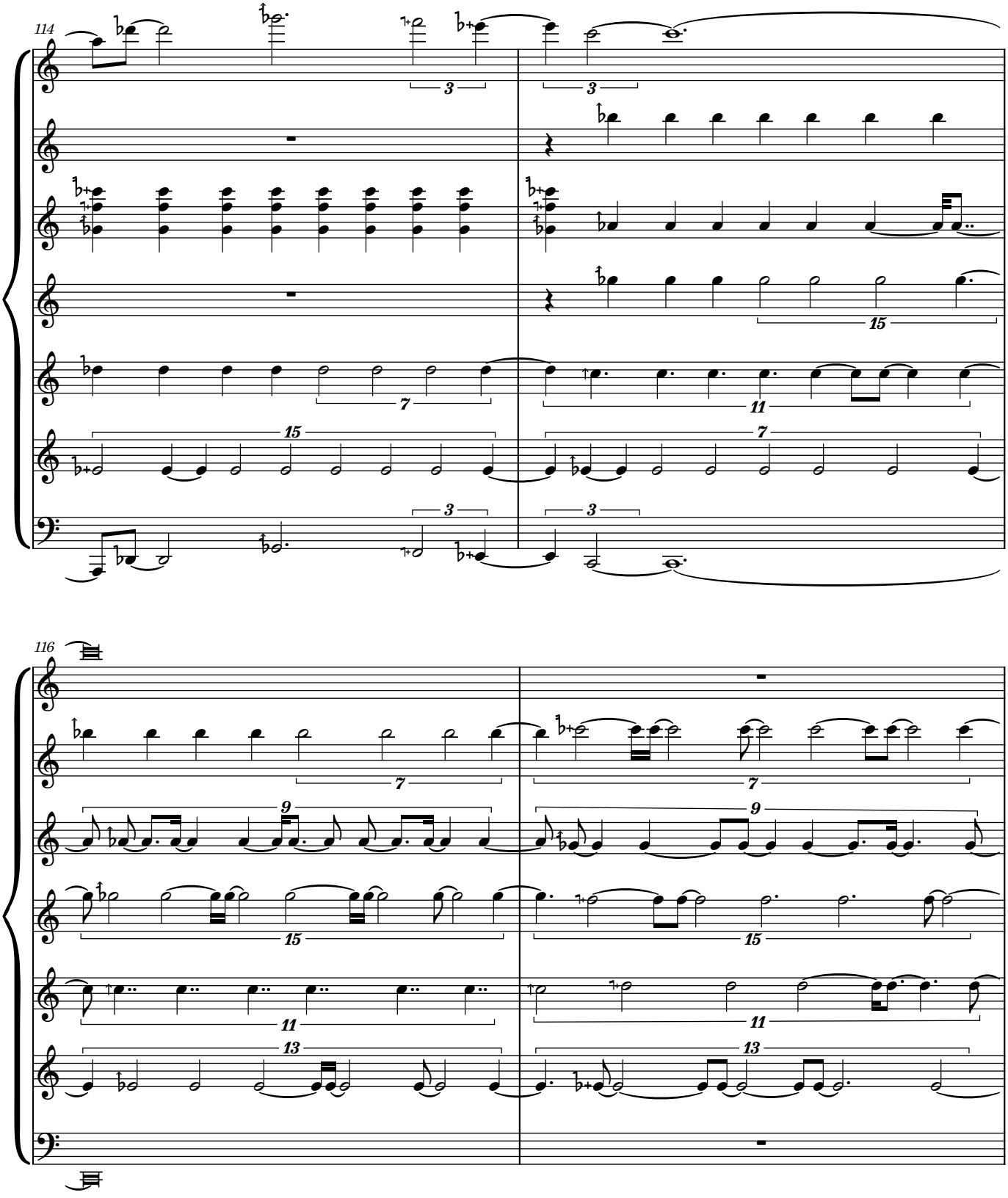

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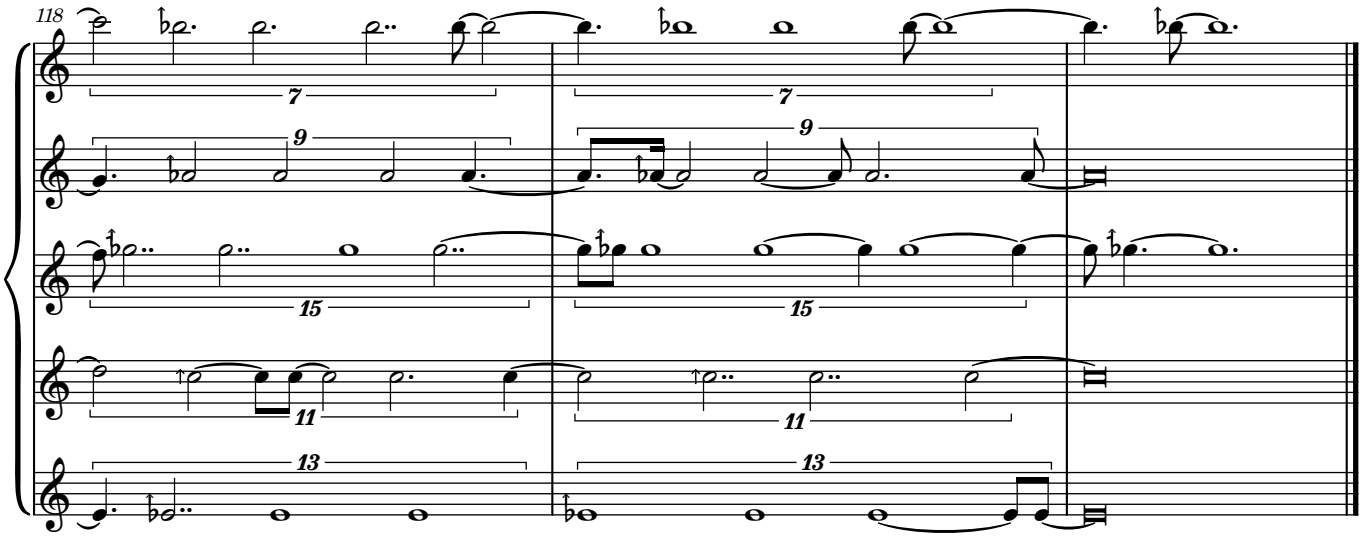

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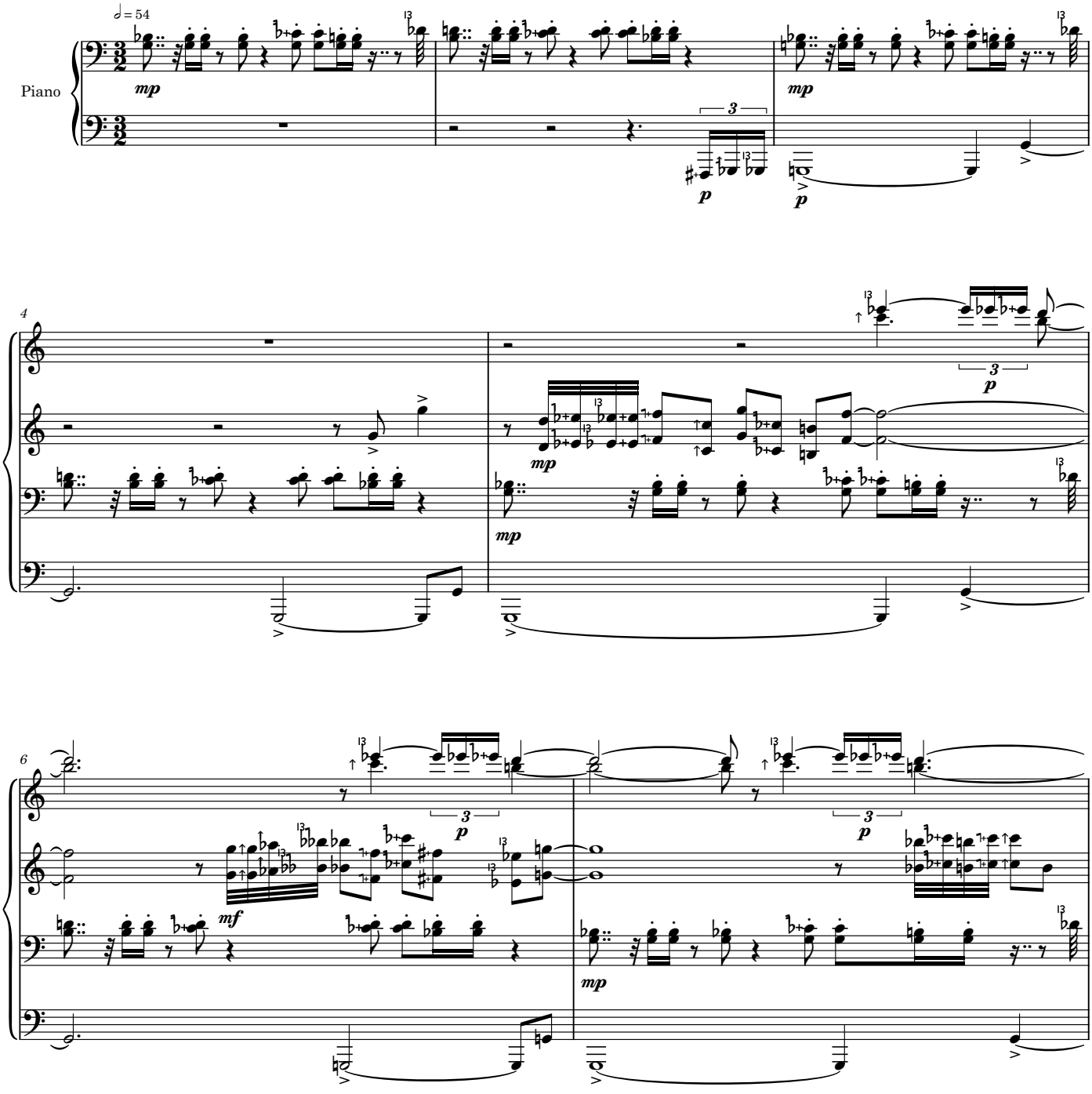

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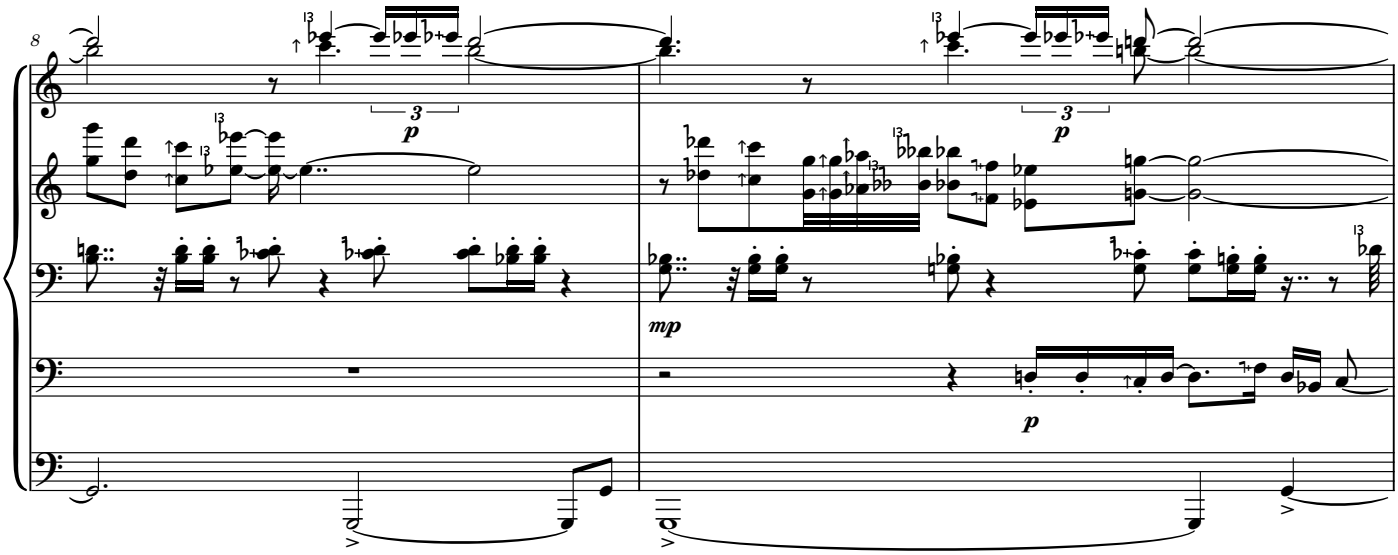
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from a summer 2015 sketch
Germantown, NY
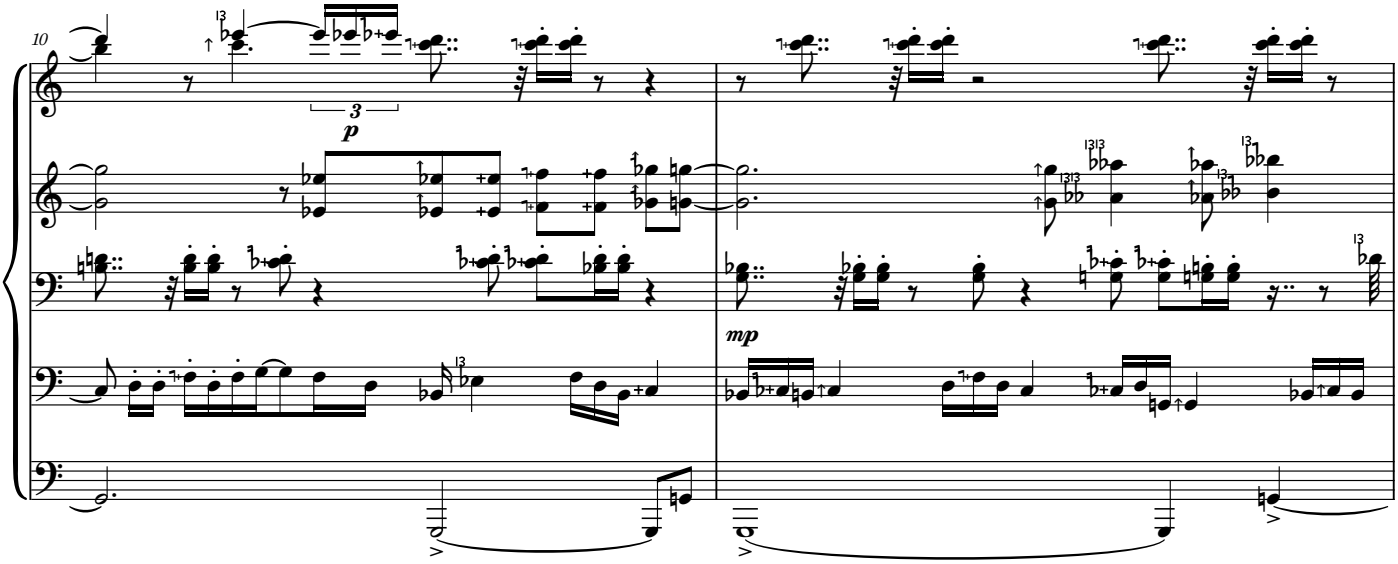
Busted Grooves
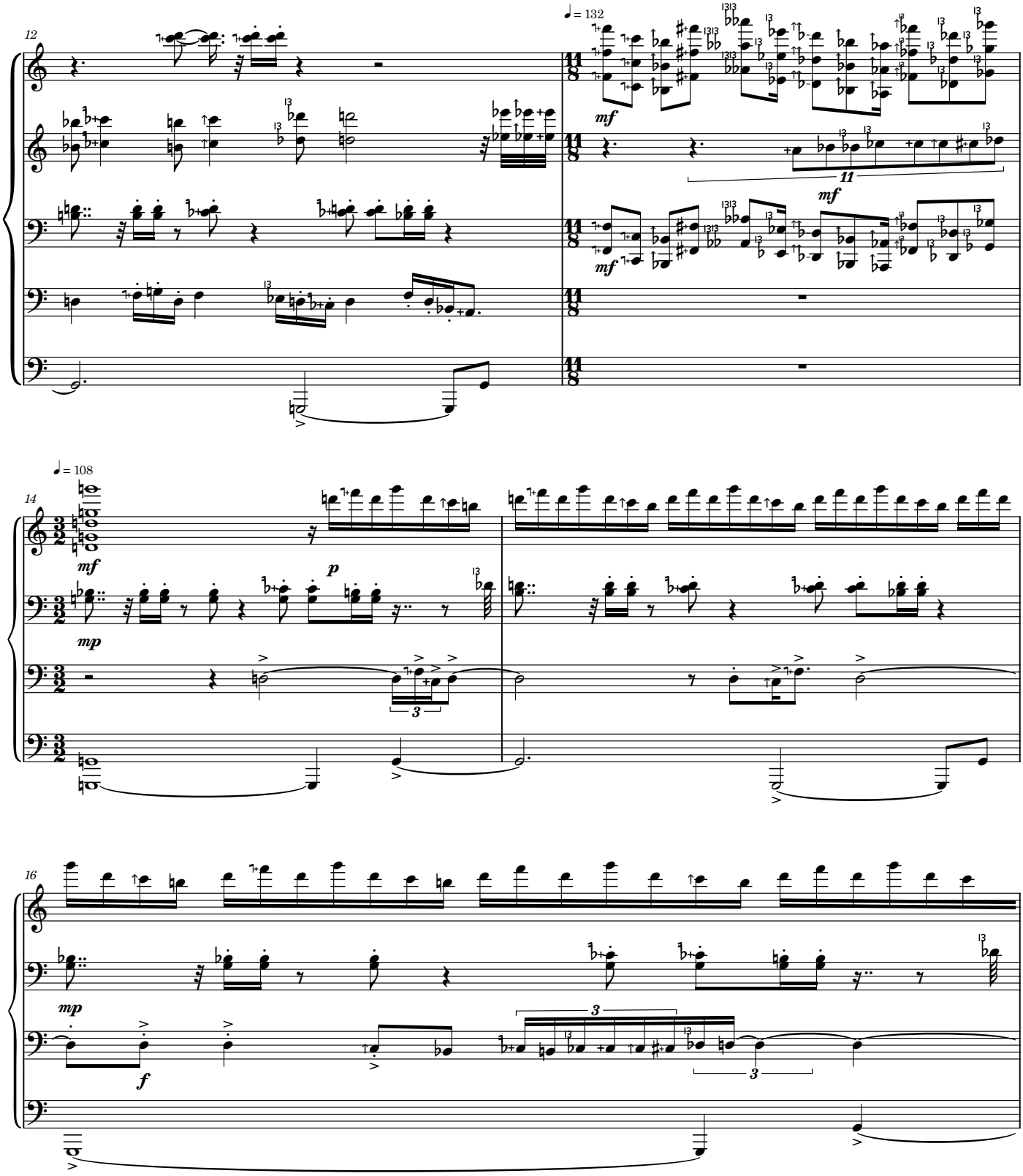
Kyle Gann
2017
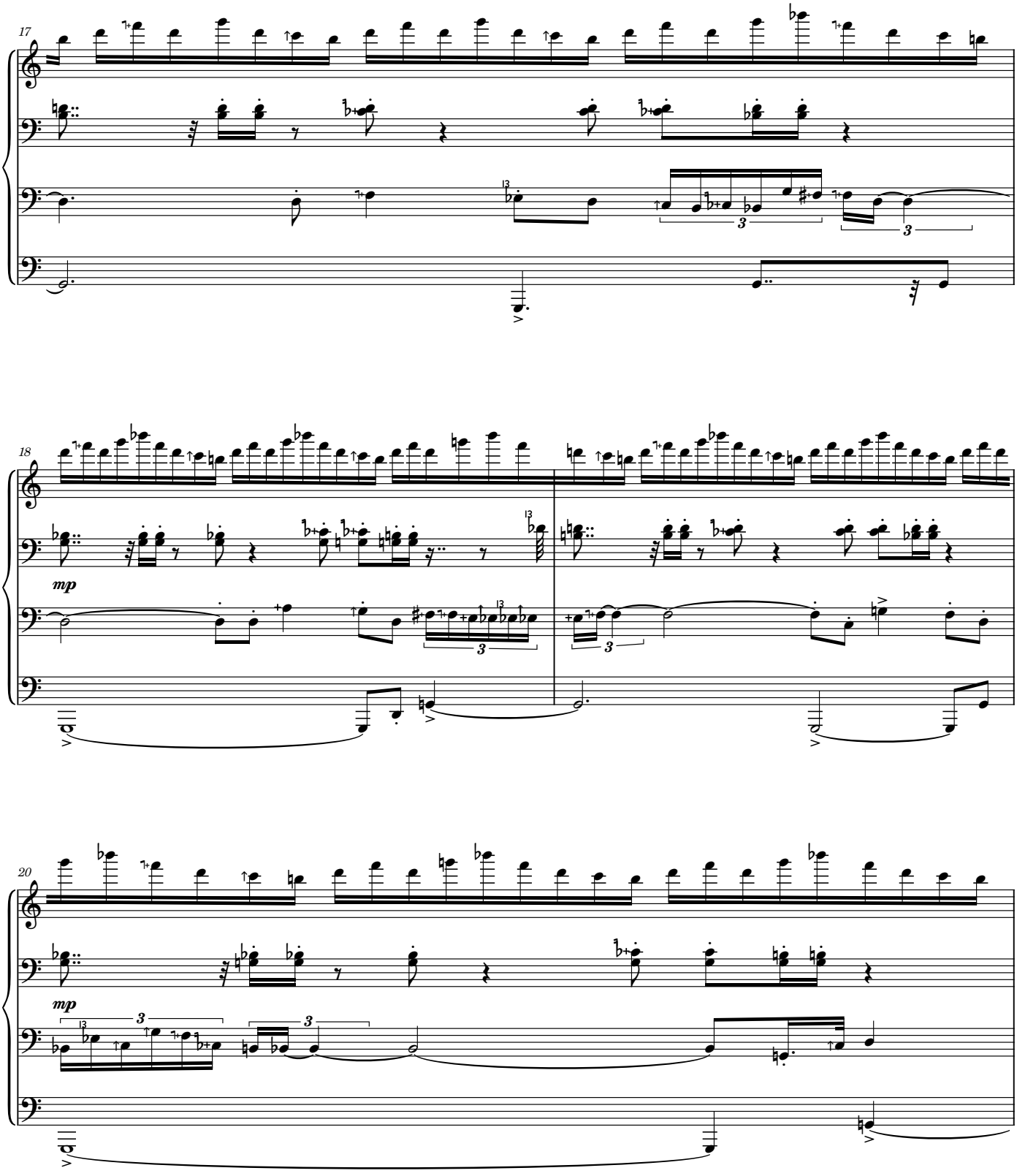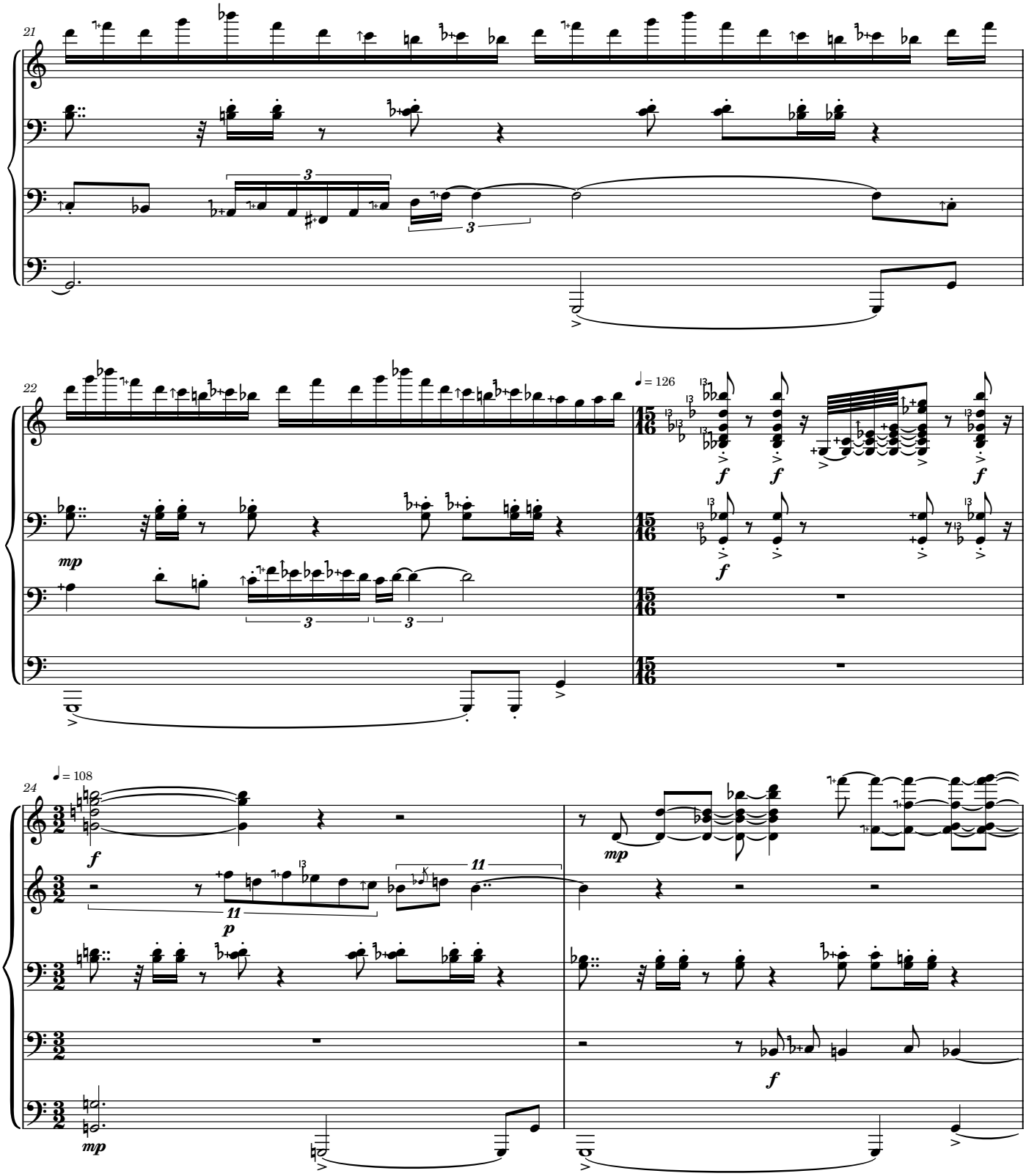


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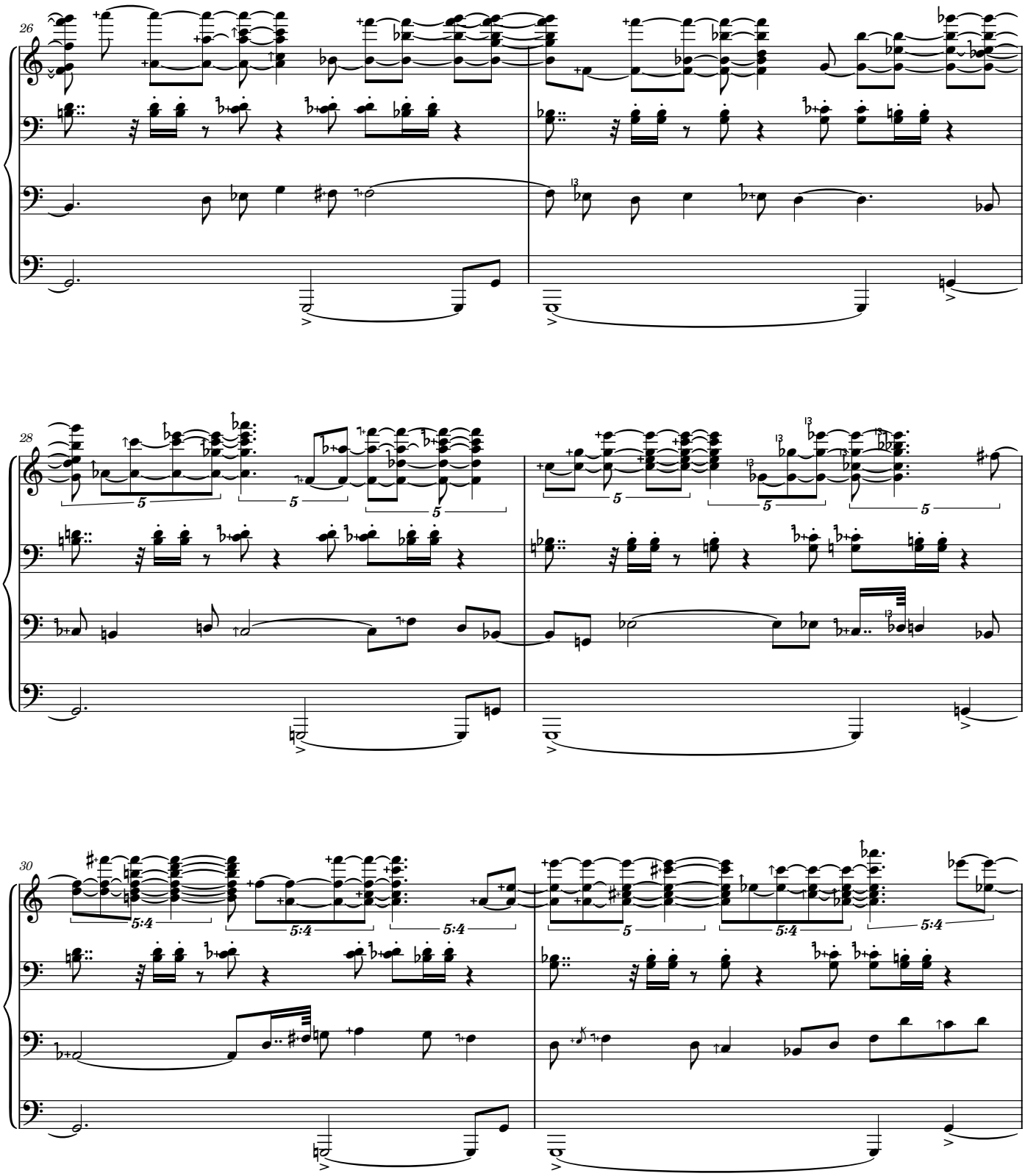

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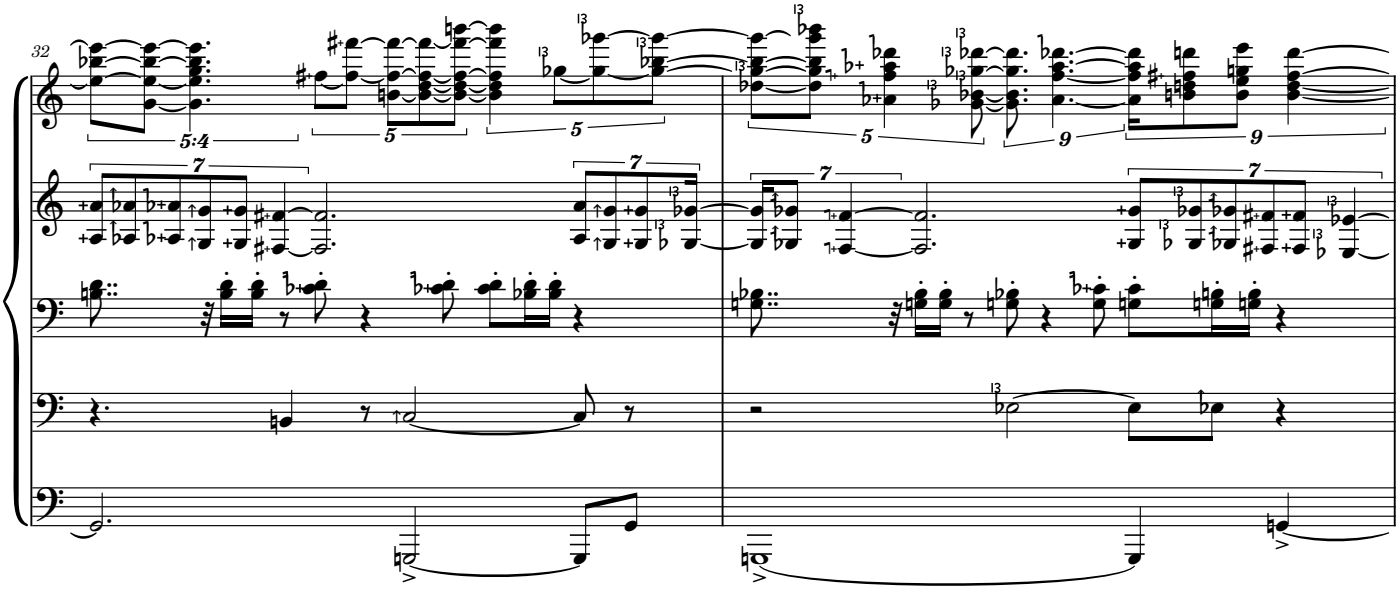

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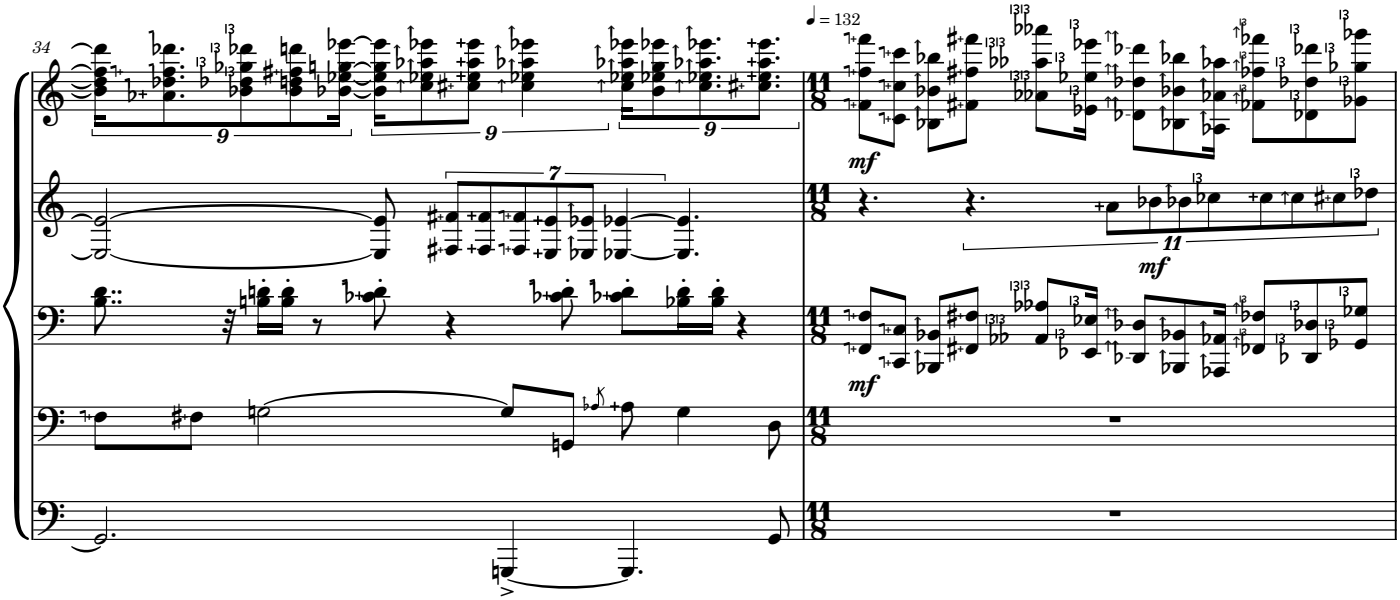

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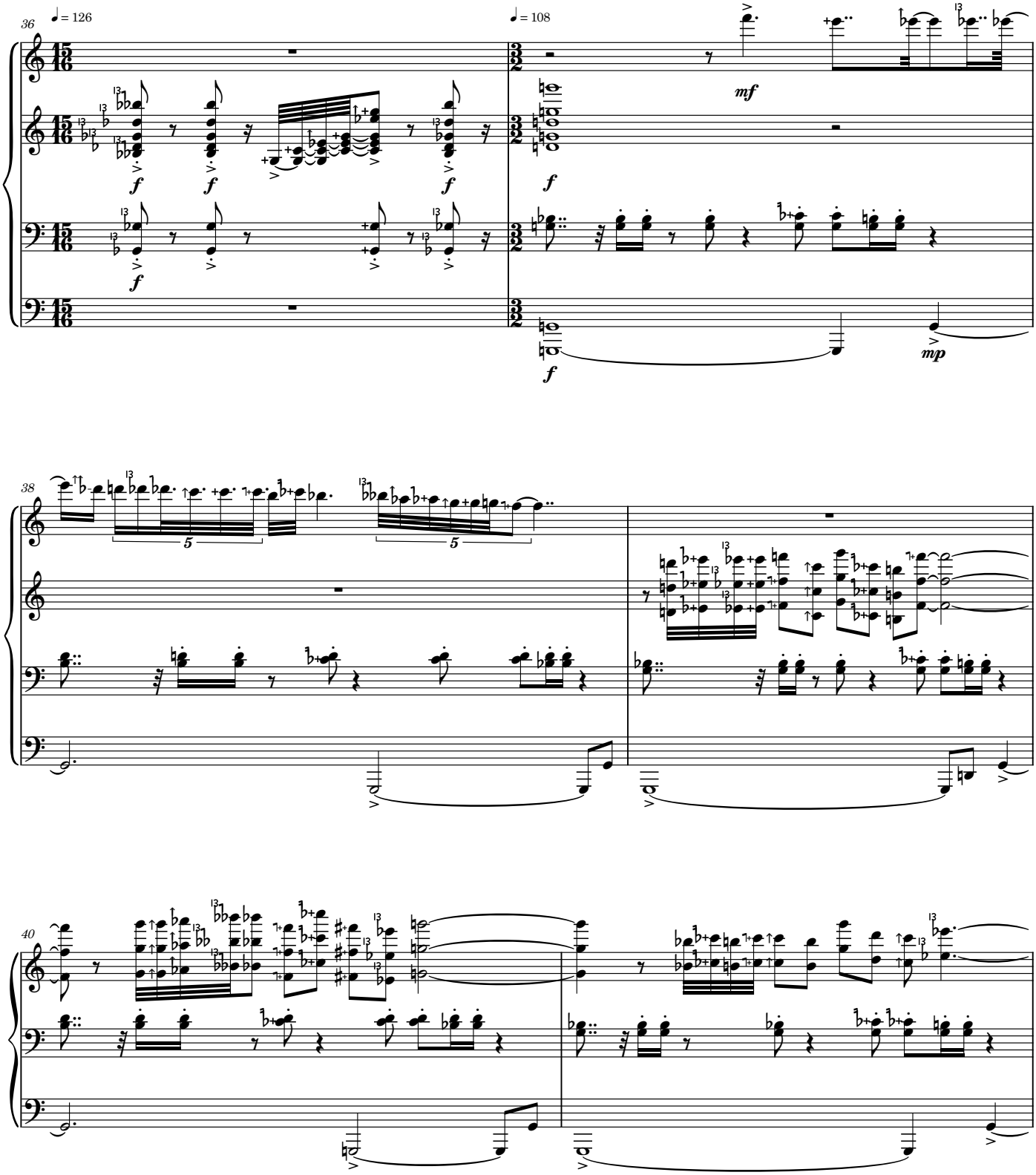

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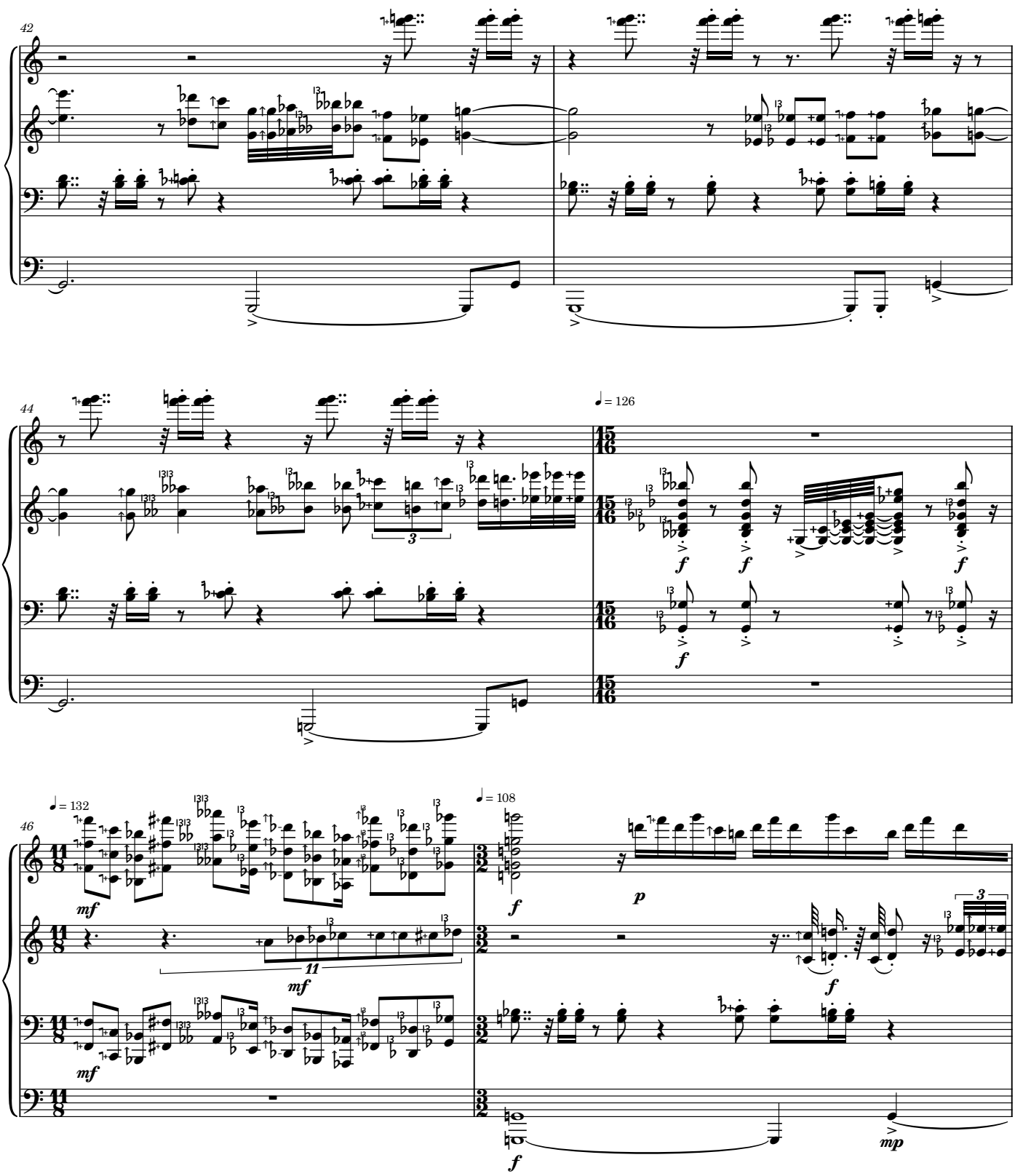

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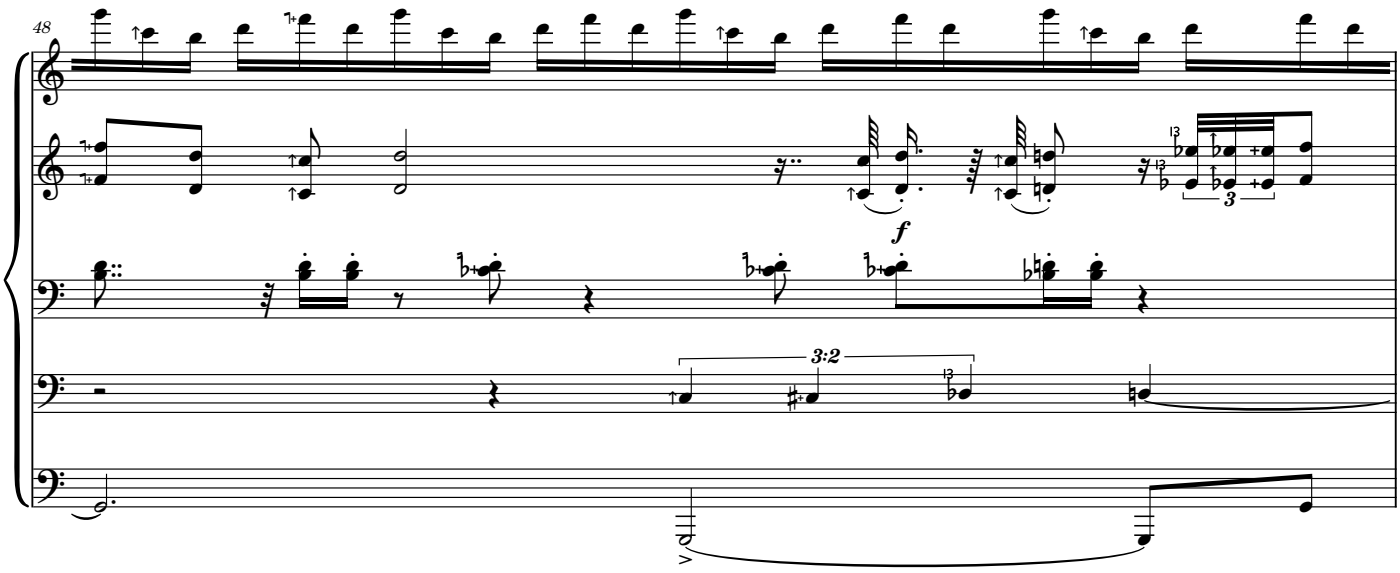

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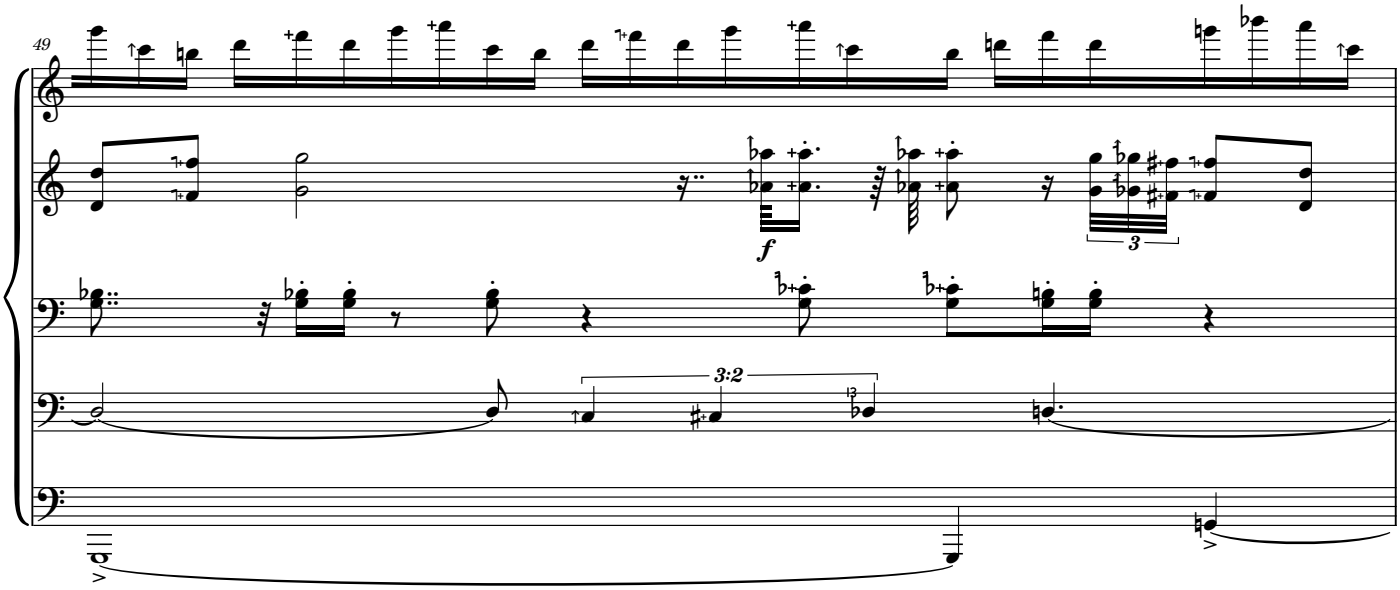

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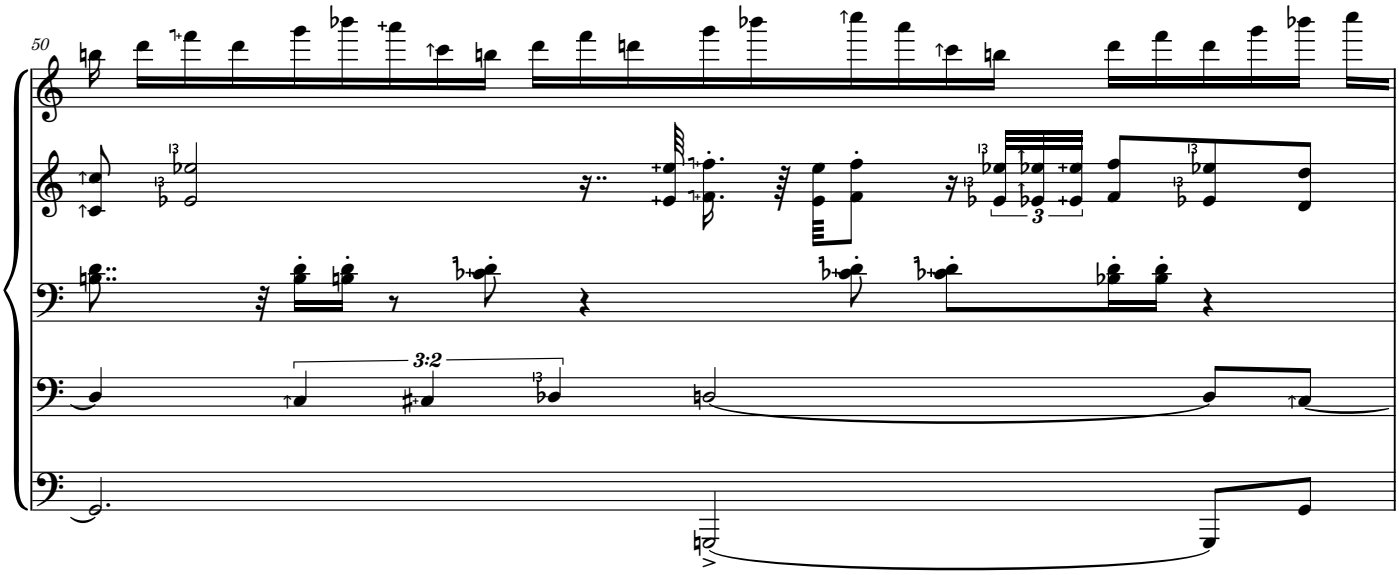

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mf
mf

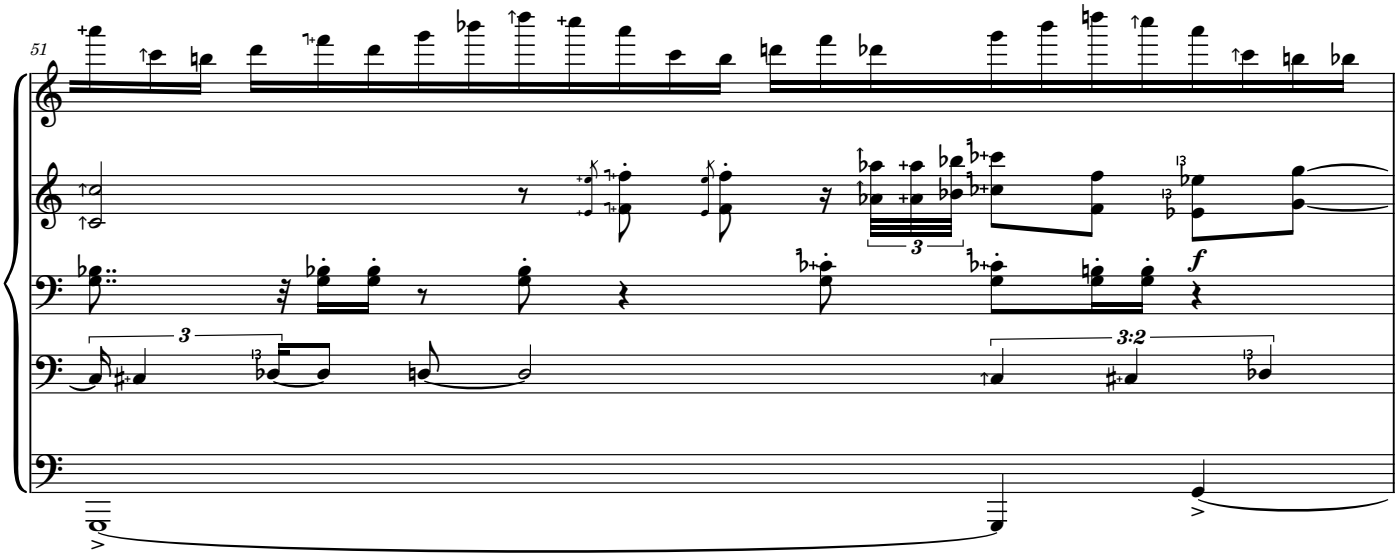

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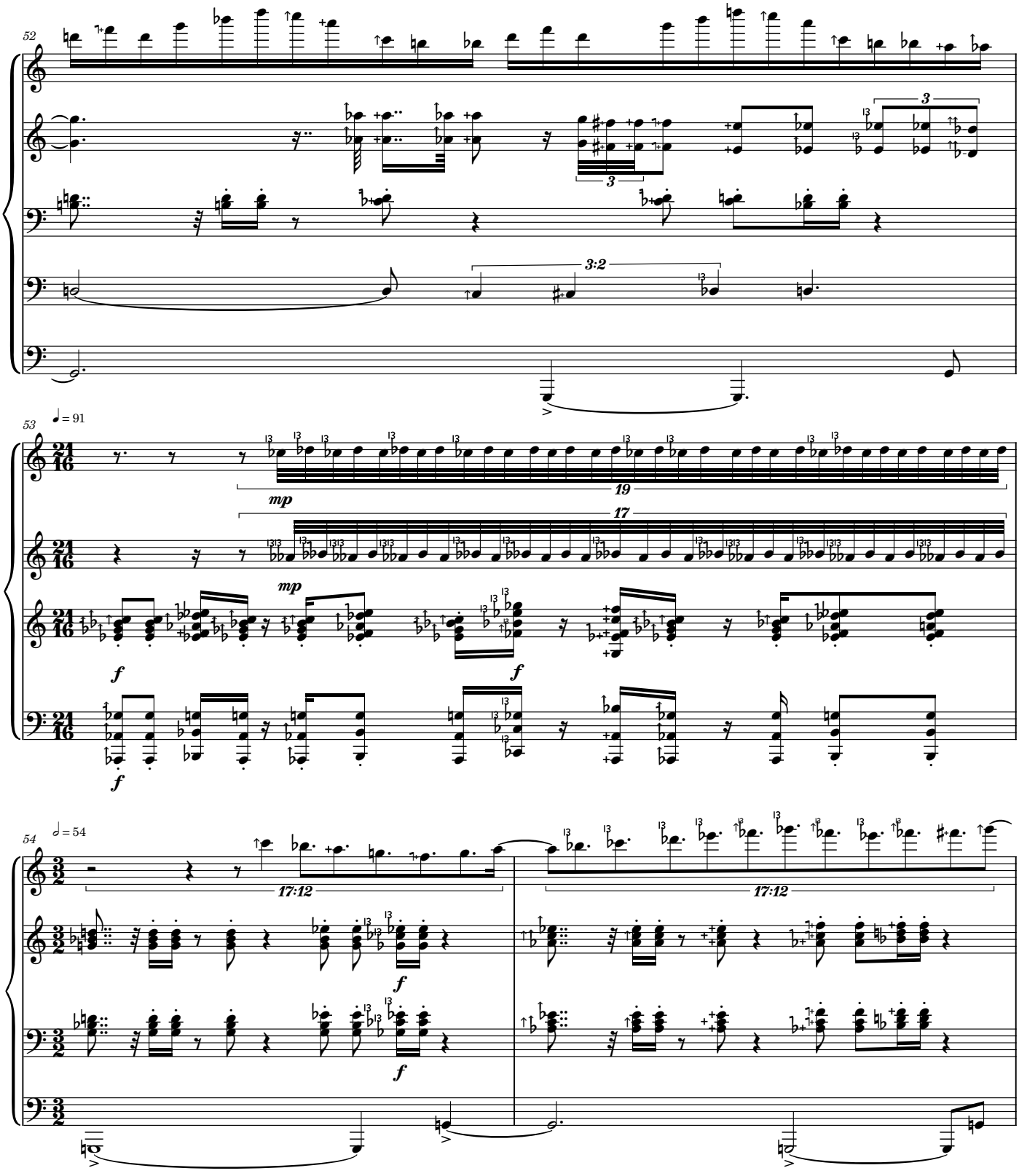

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11/8
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mp
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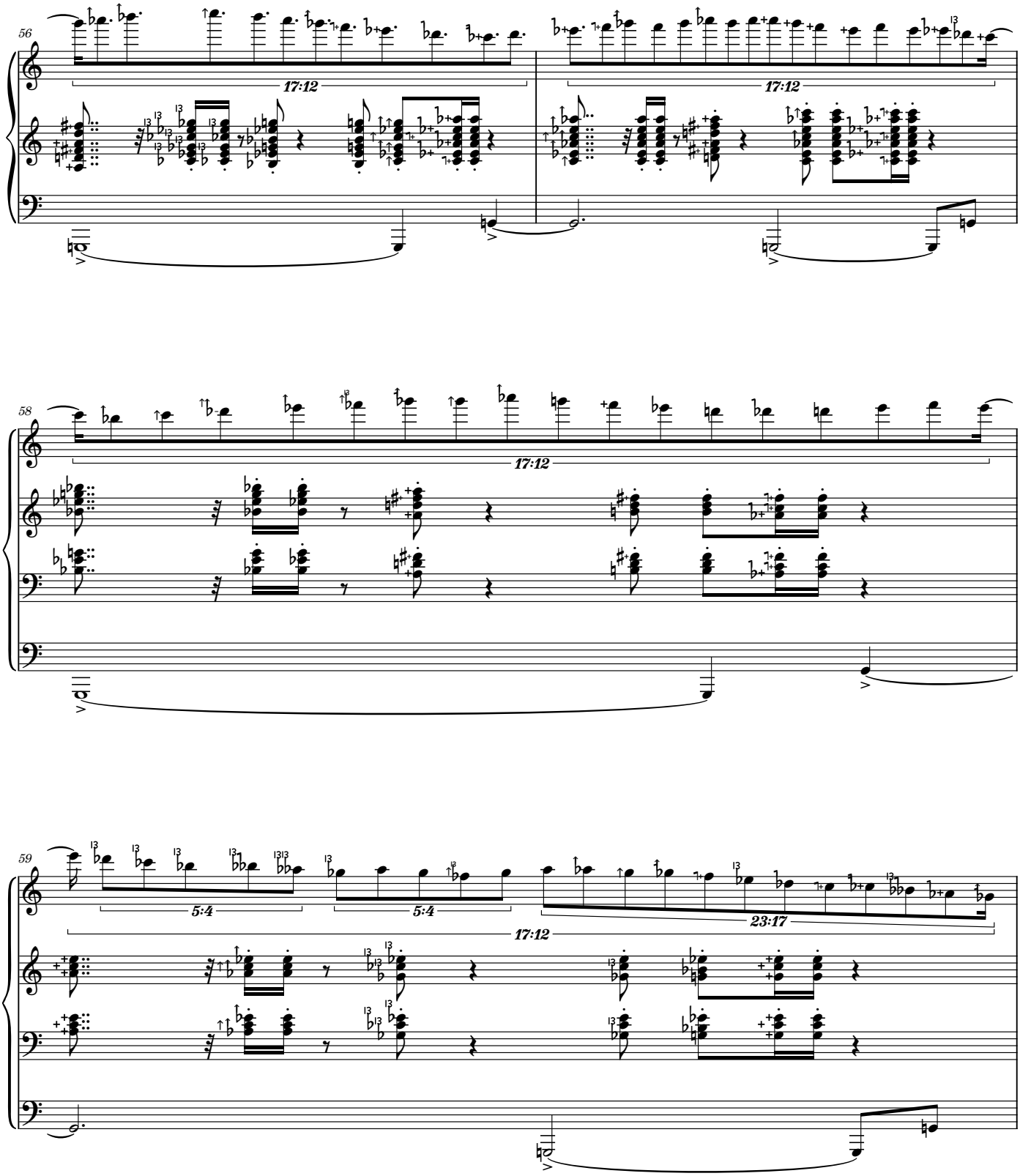

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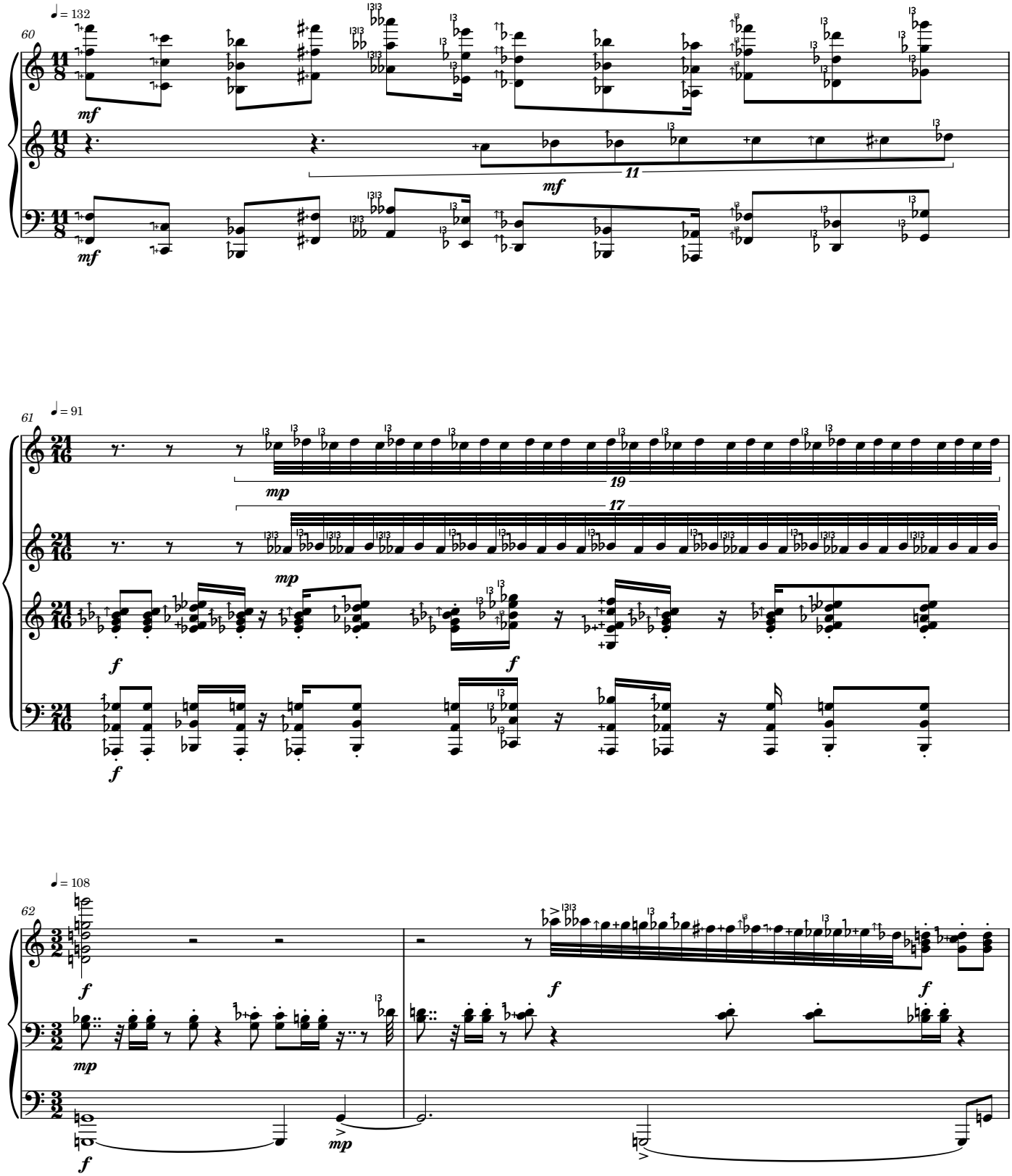

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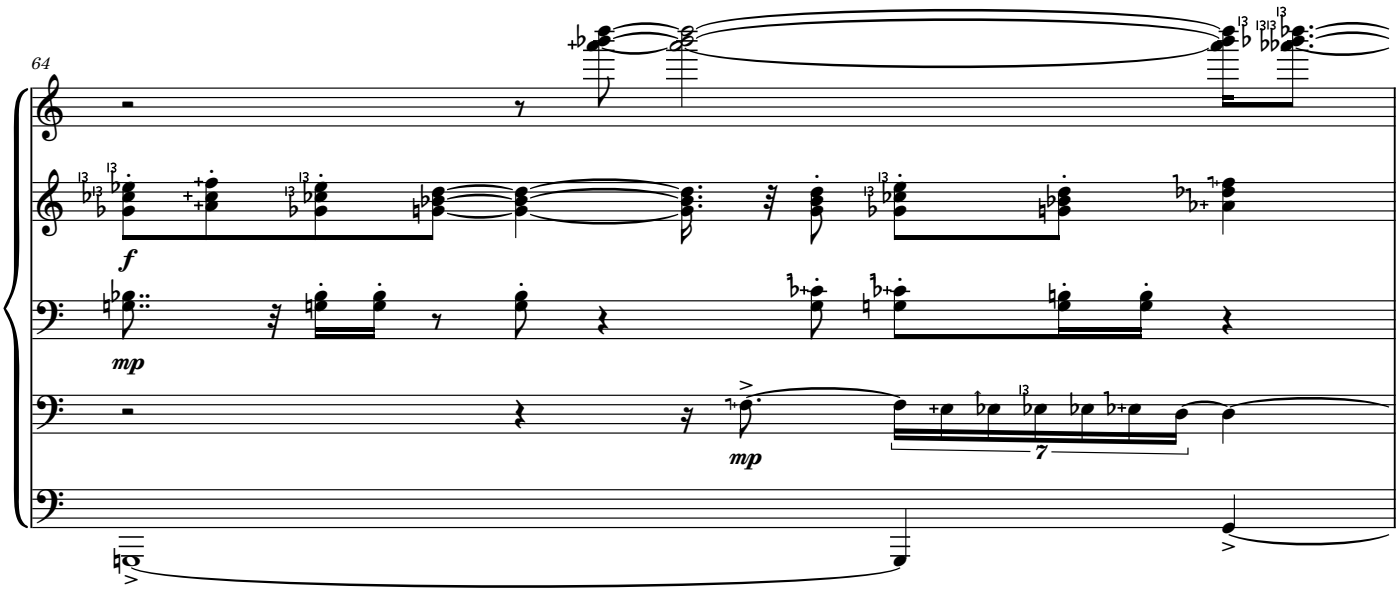

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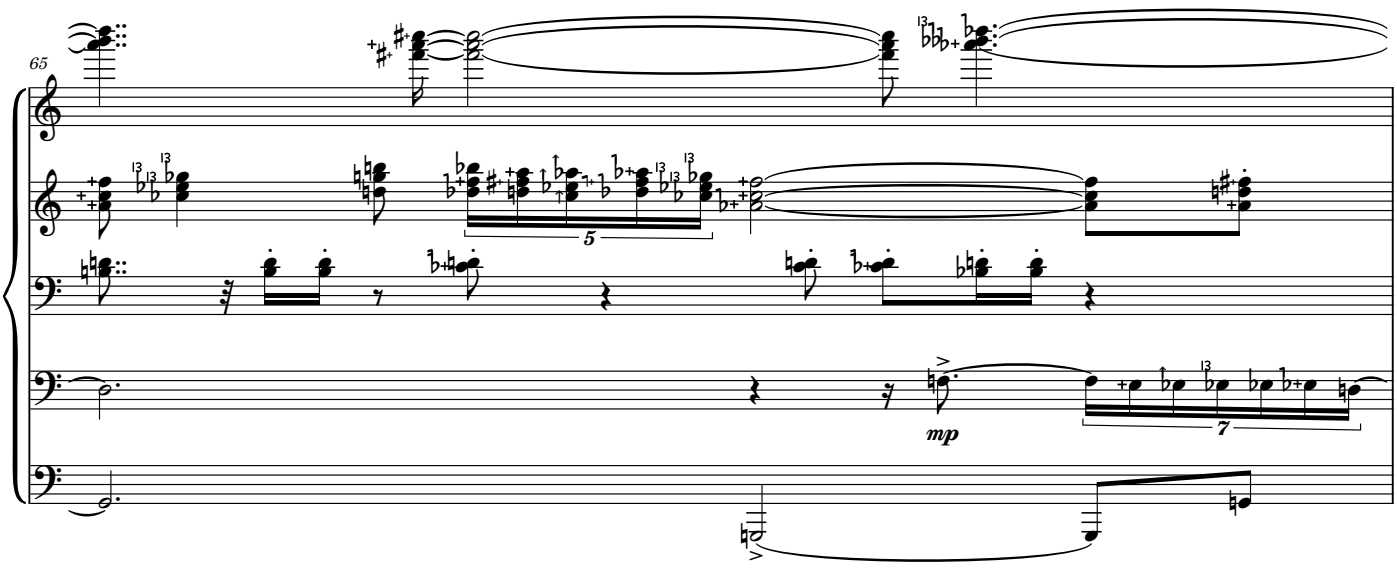

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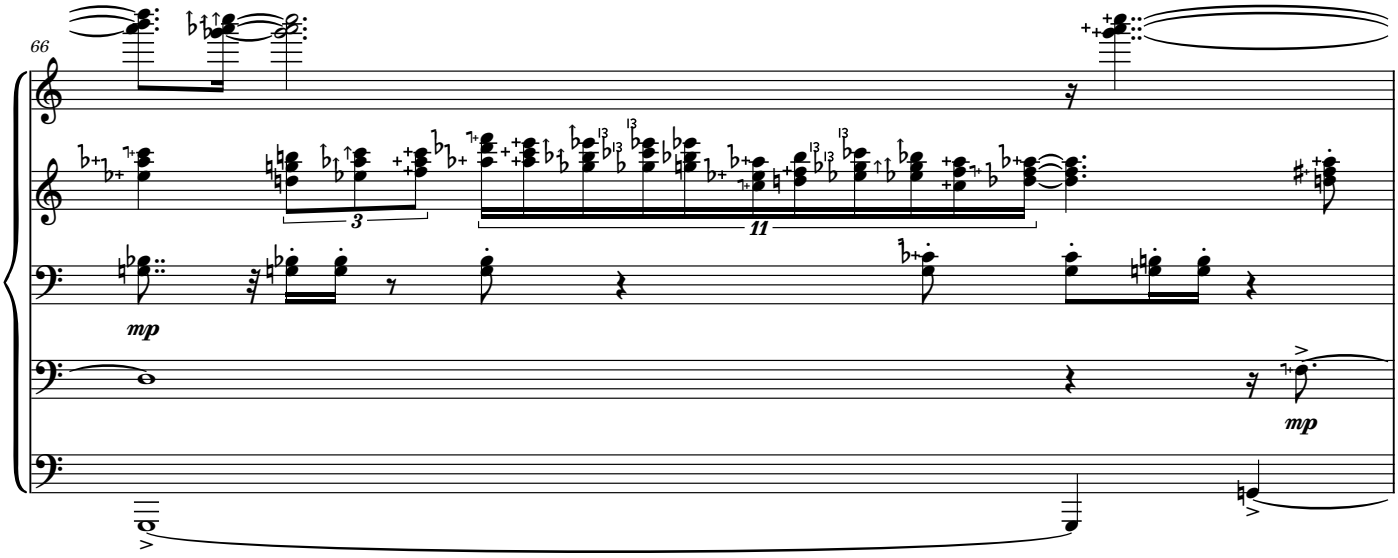

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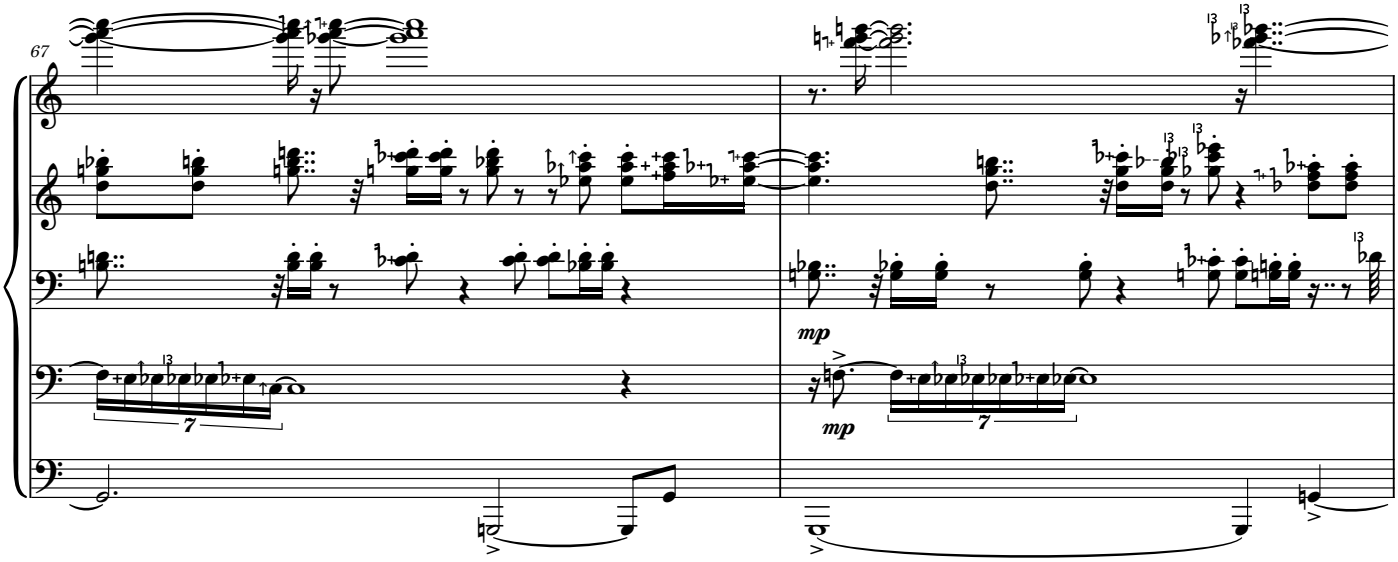

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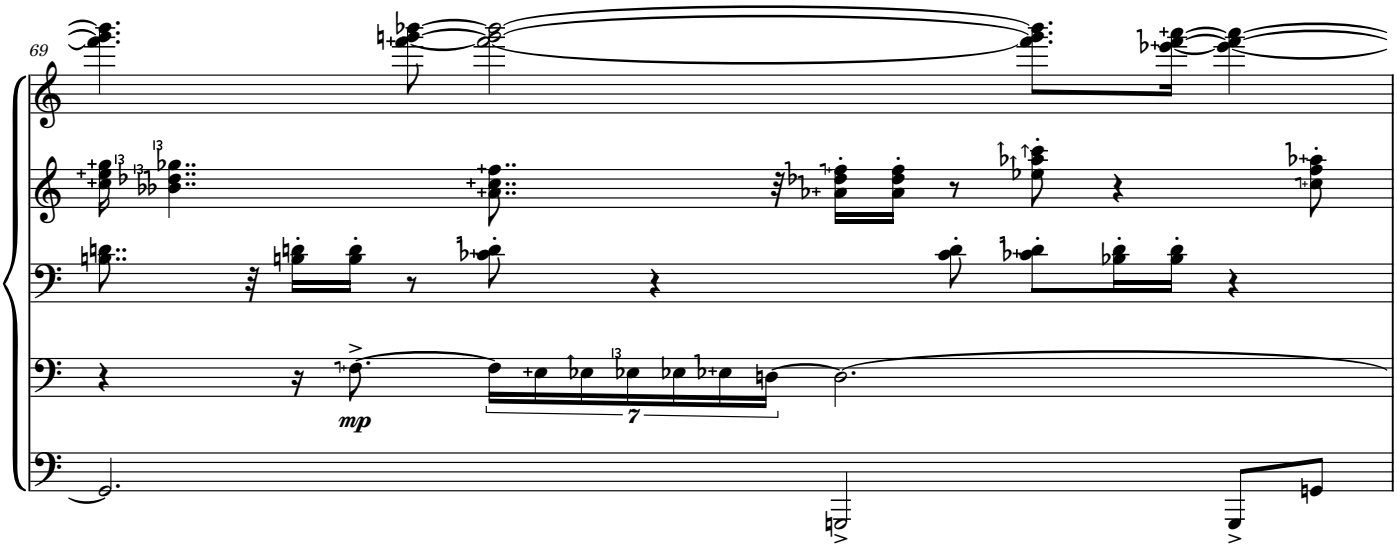

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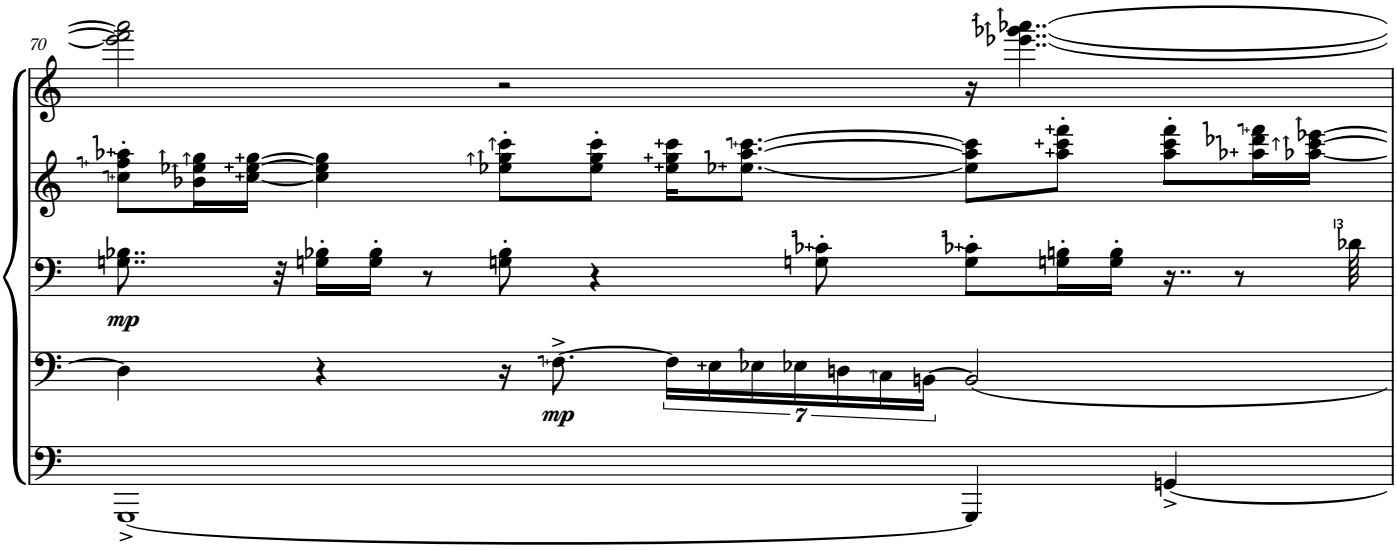

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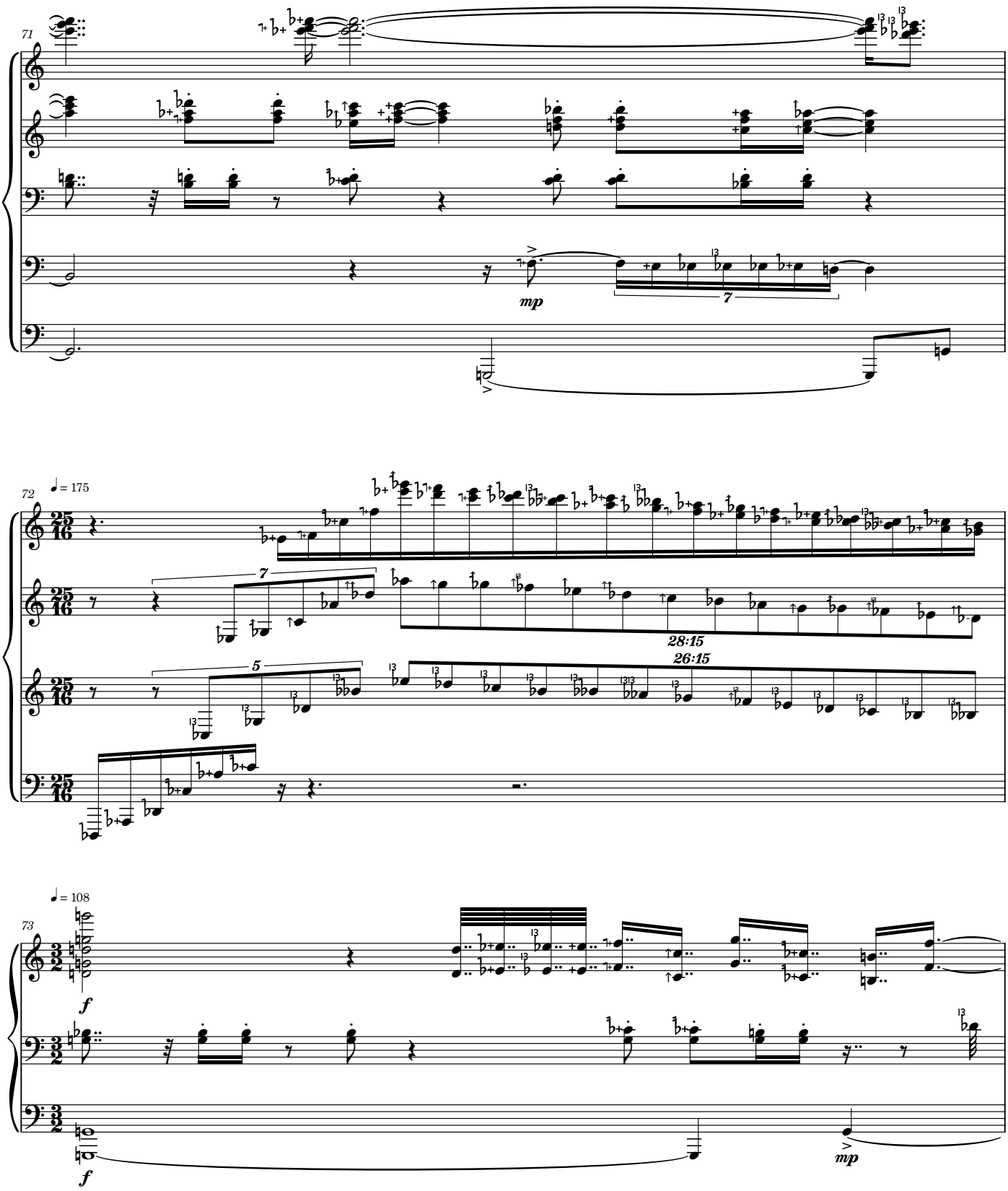

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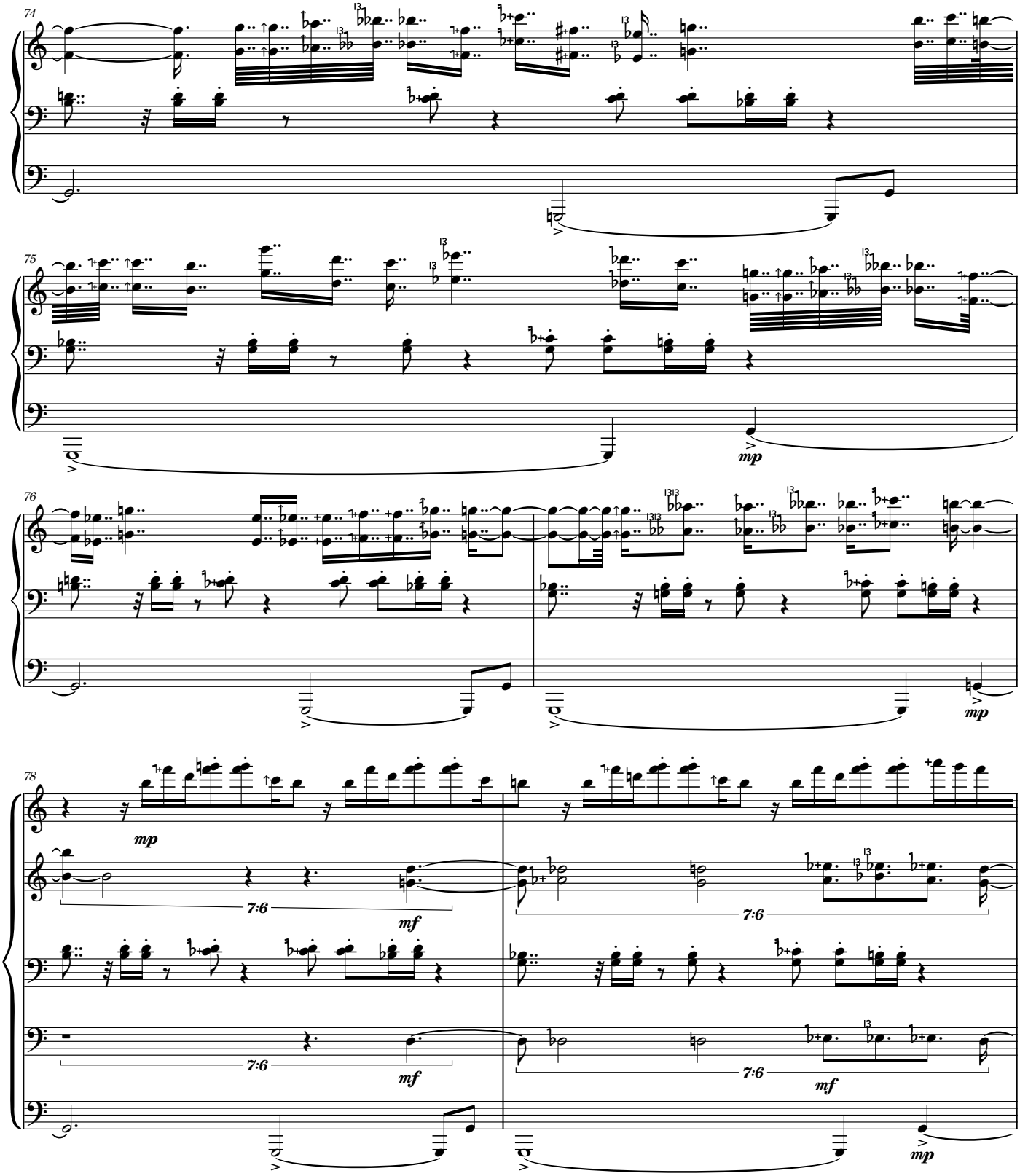

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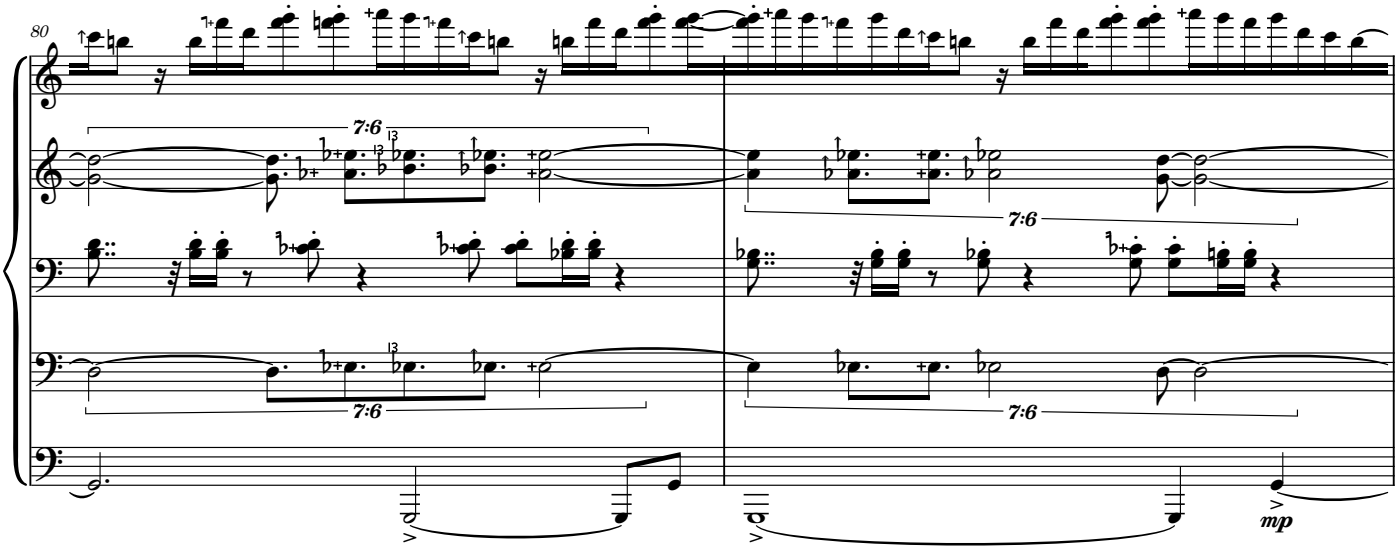

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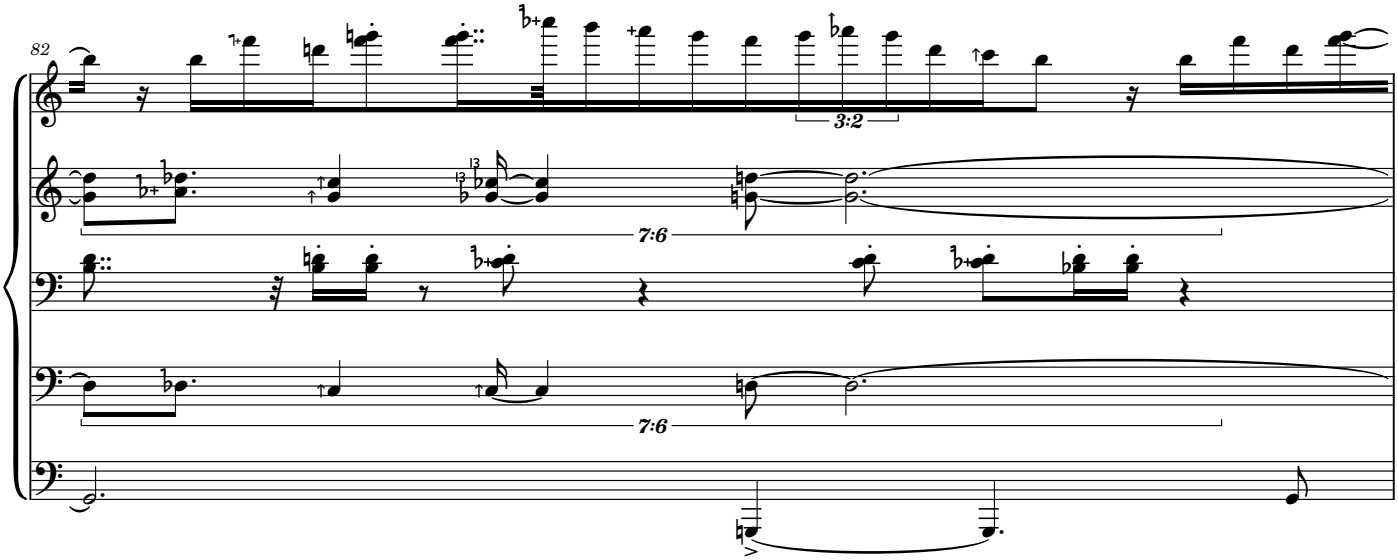

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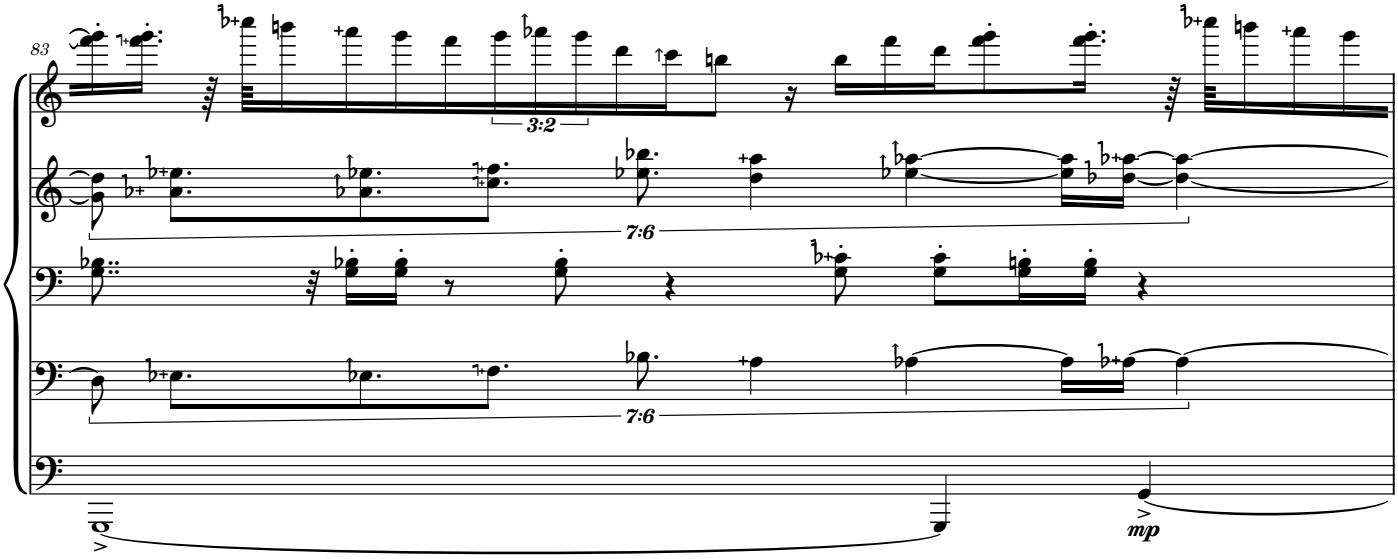

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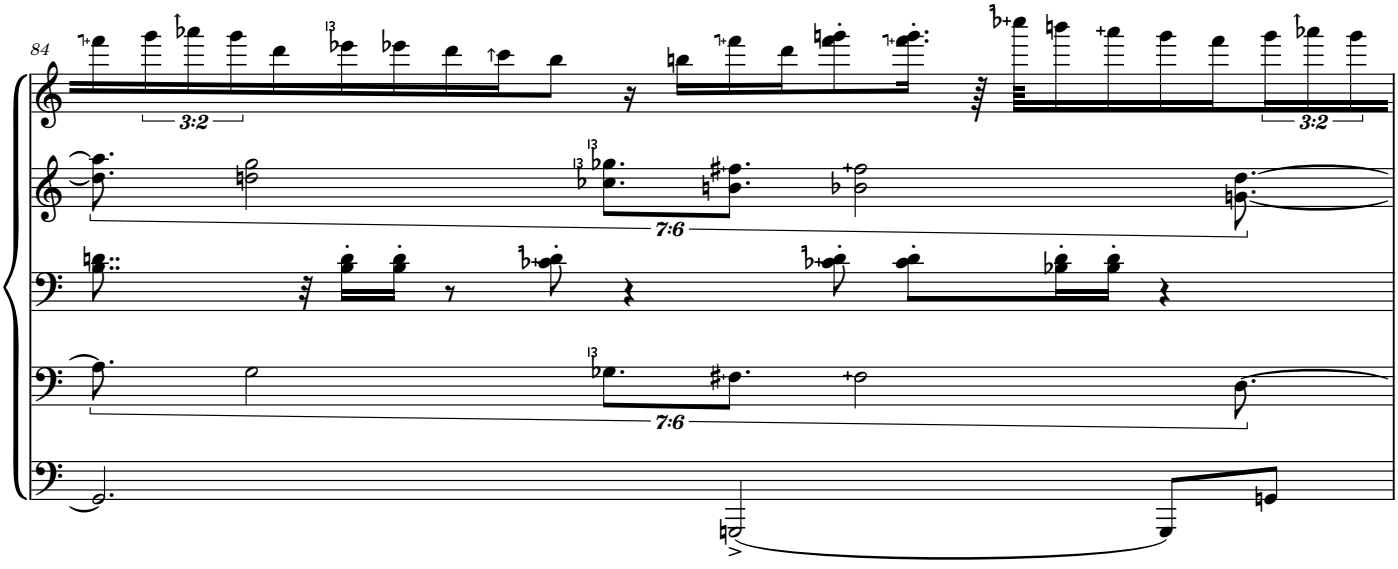

71
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f
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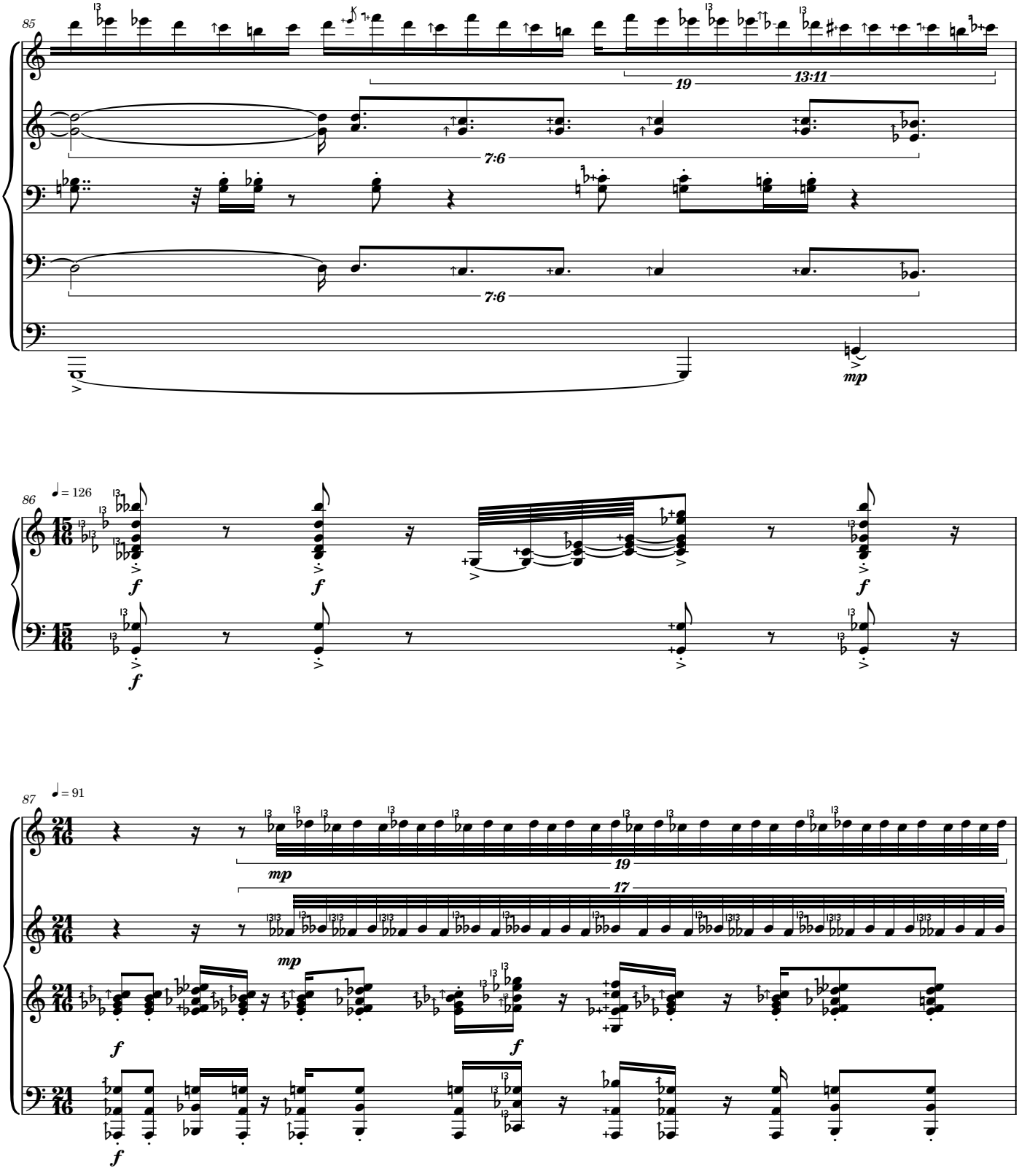

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mf
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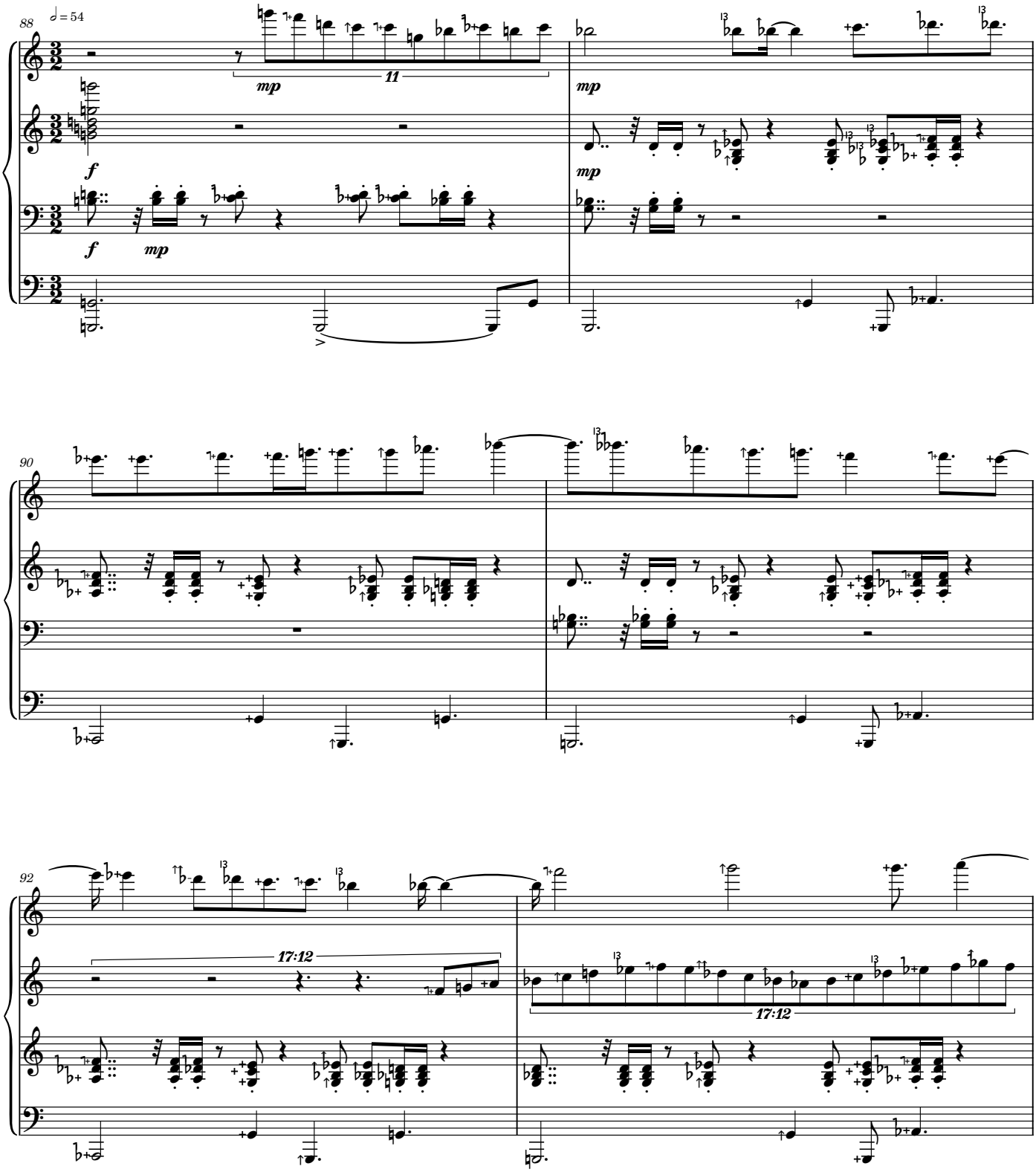

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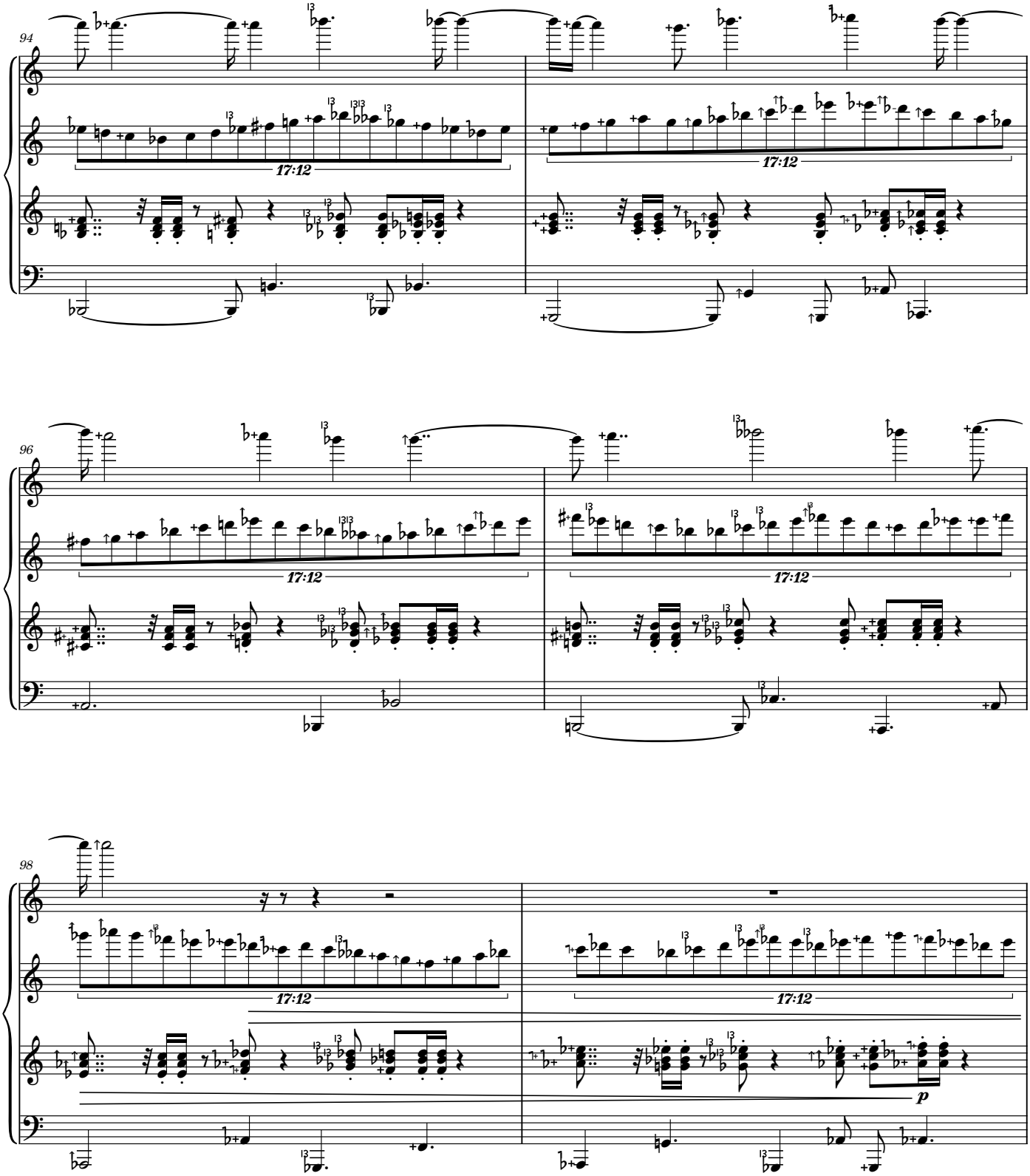

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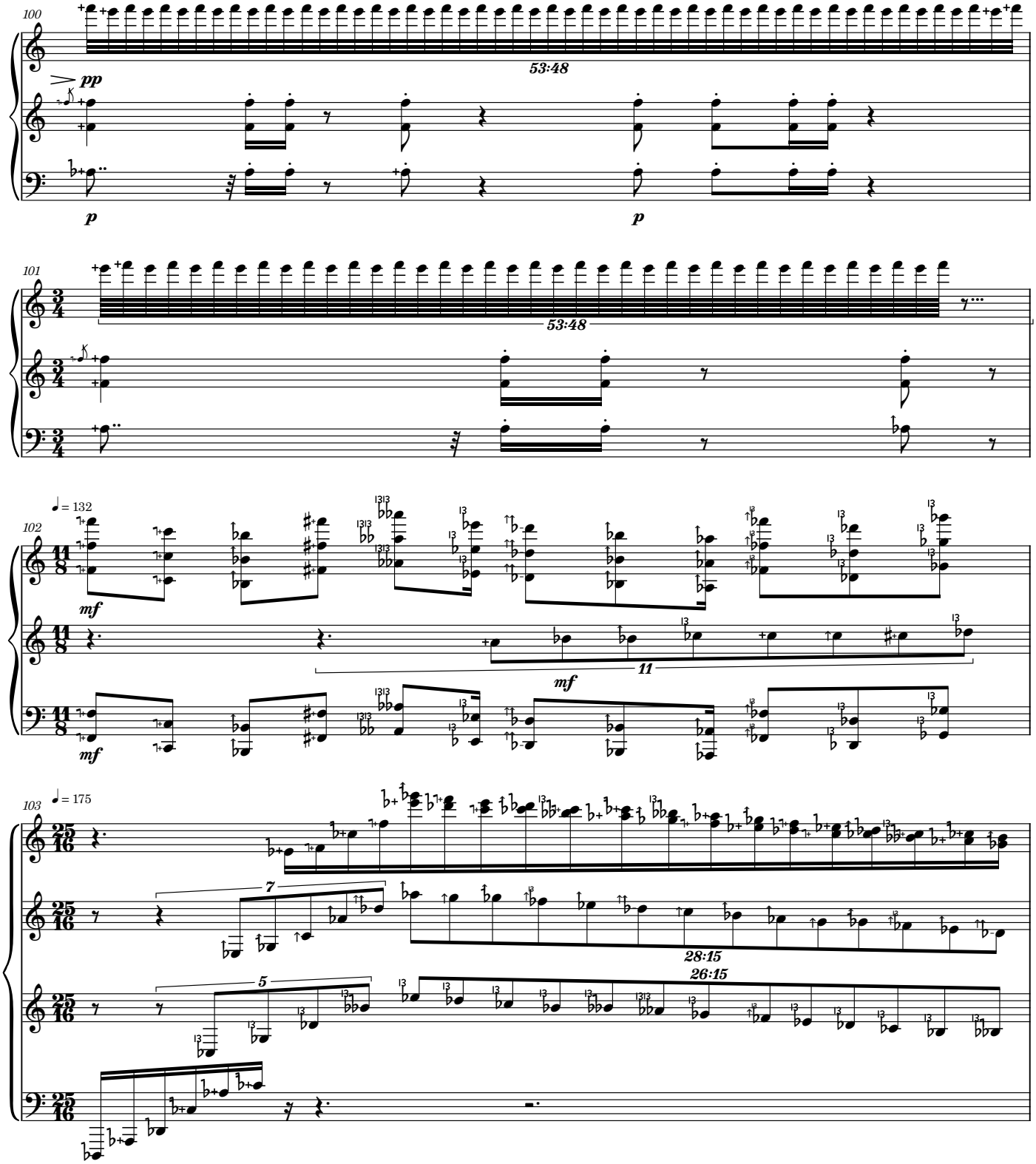

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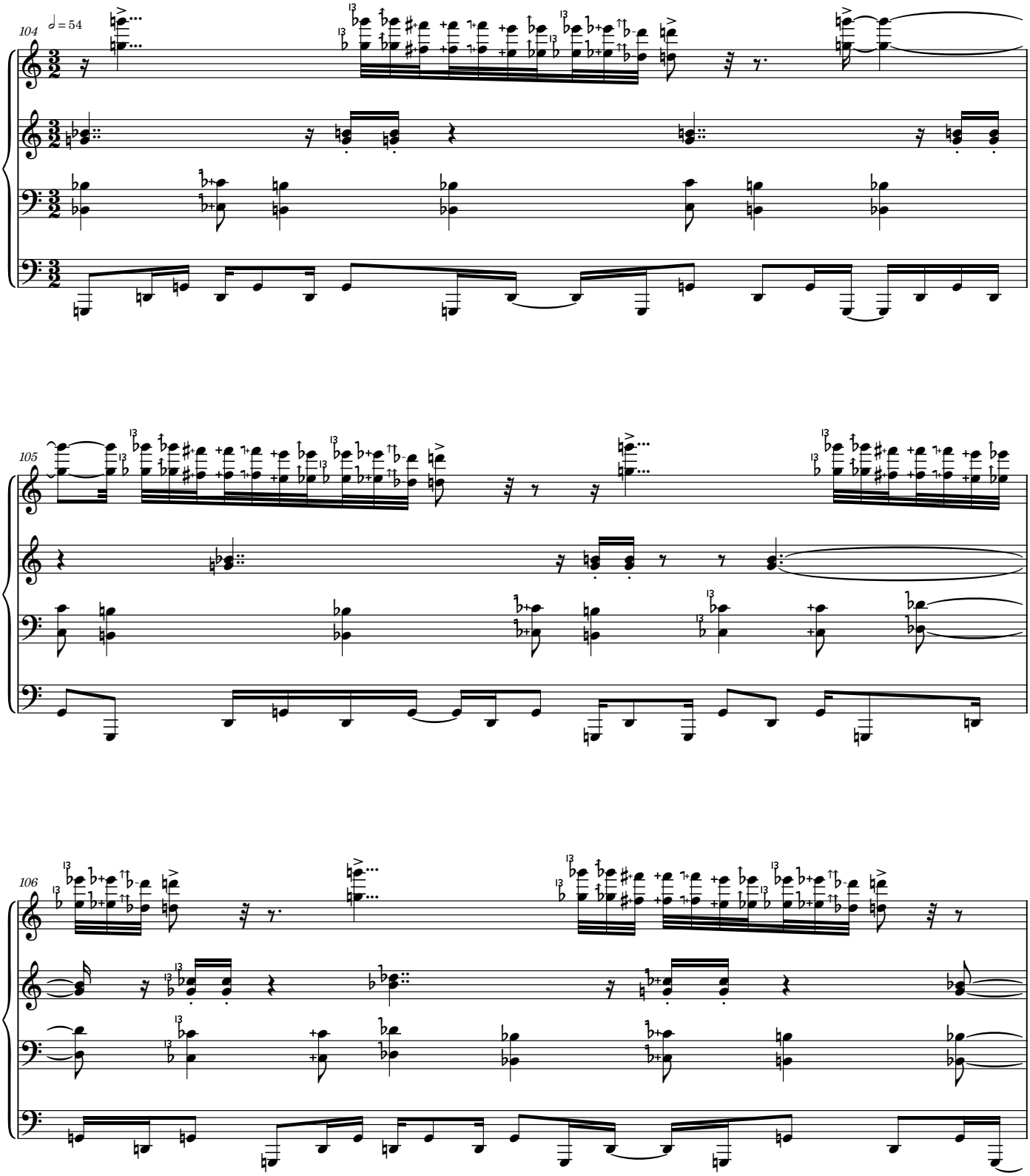

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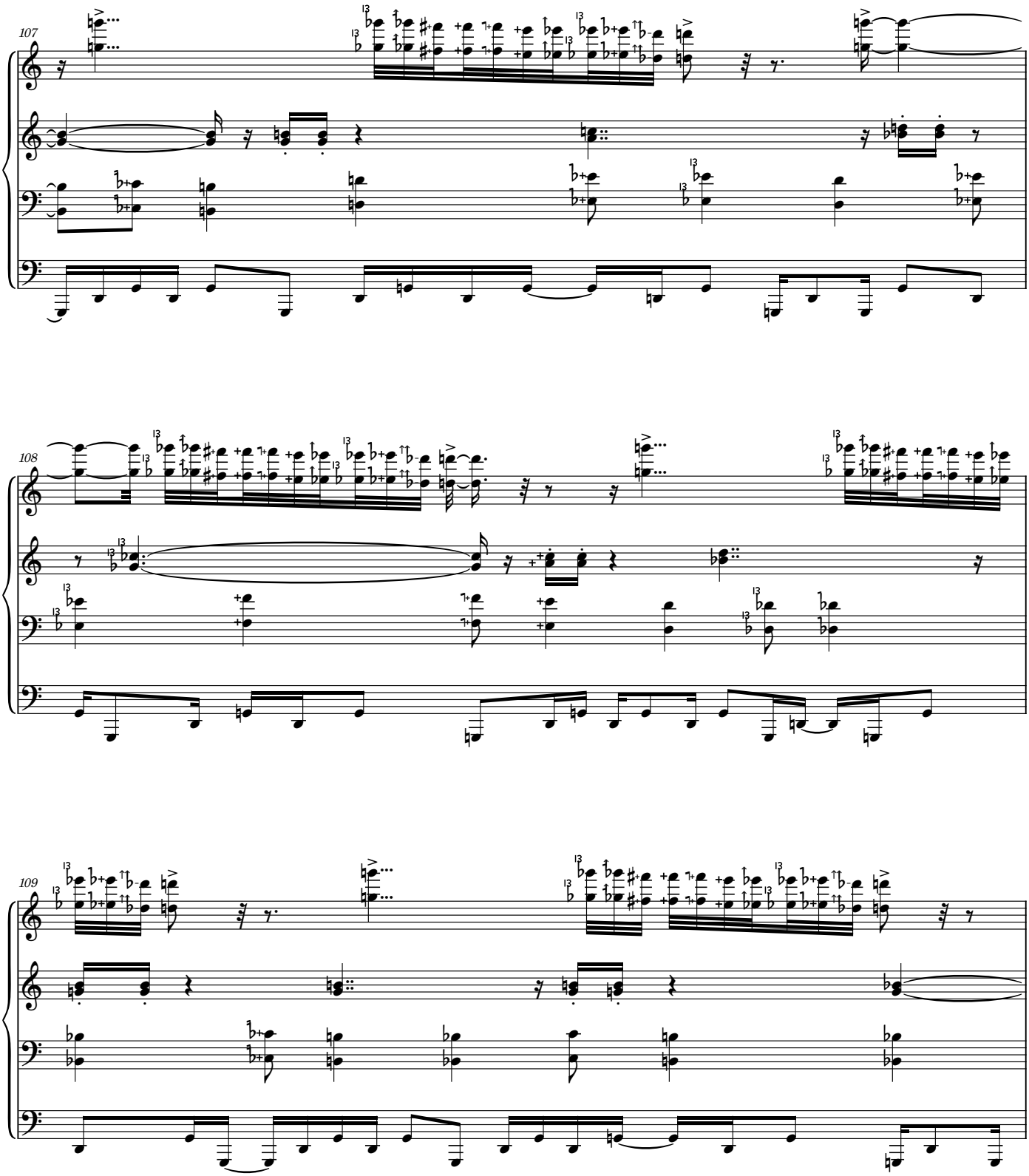

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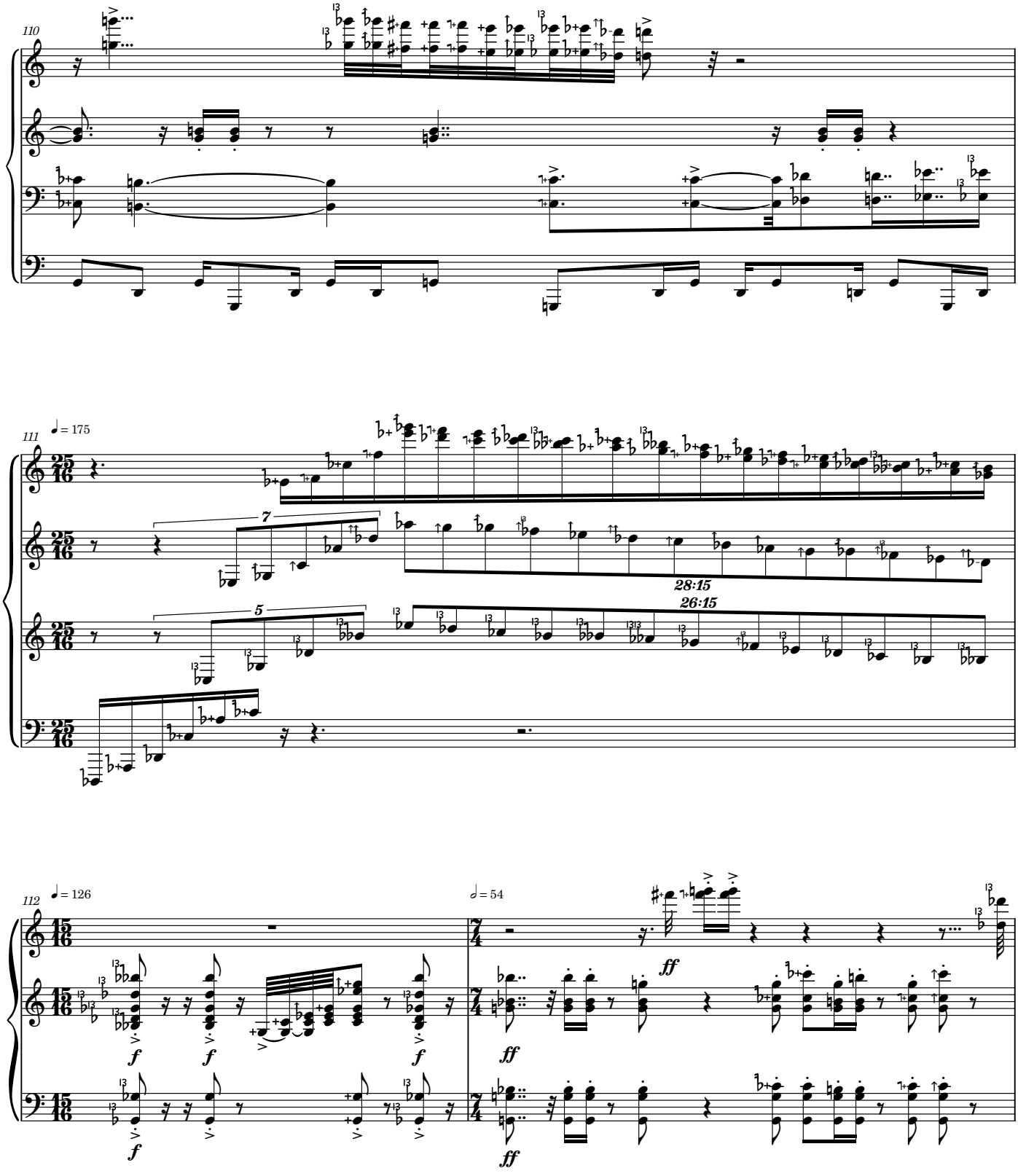

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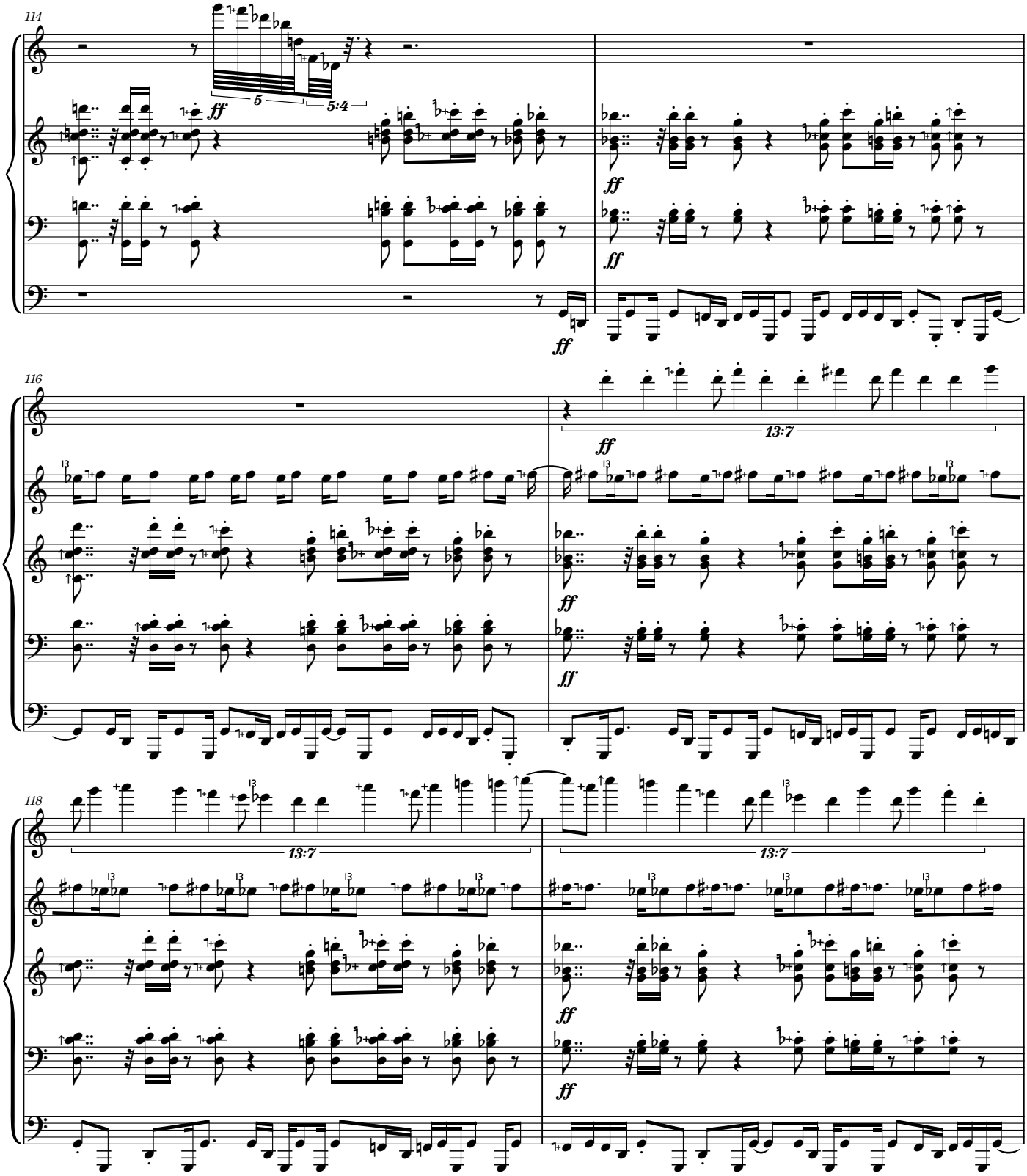

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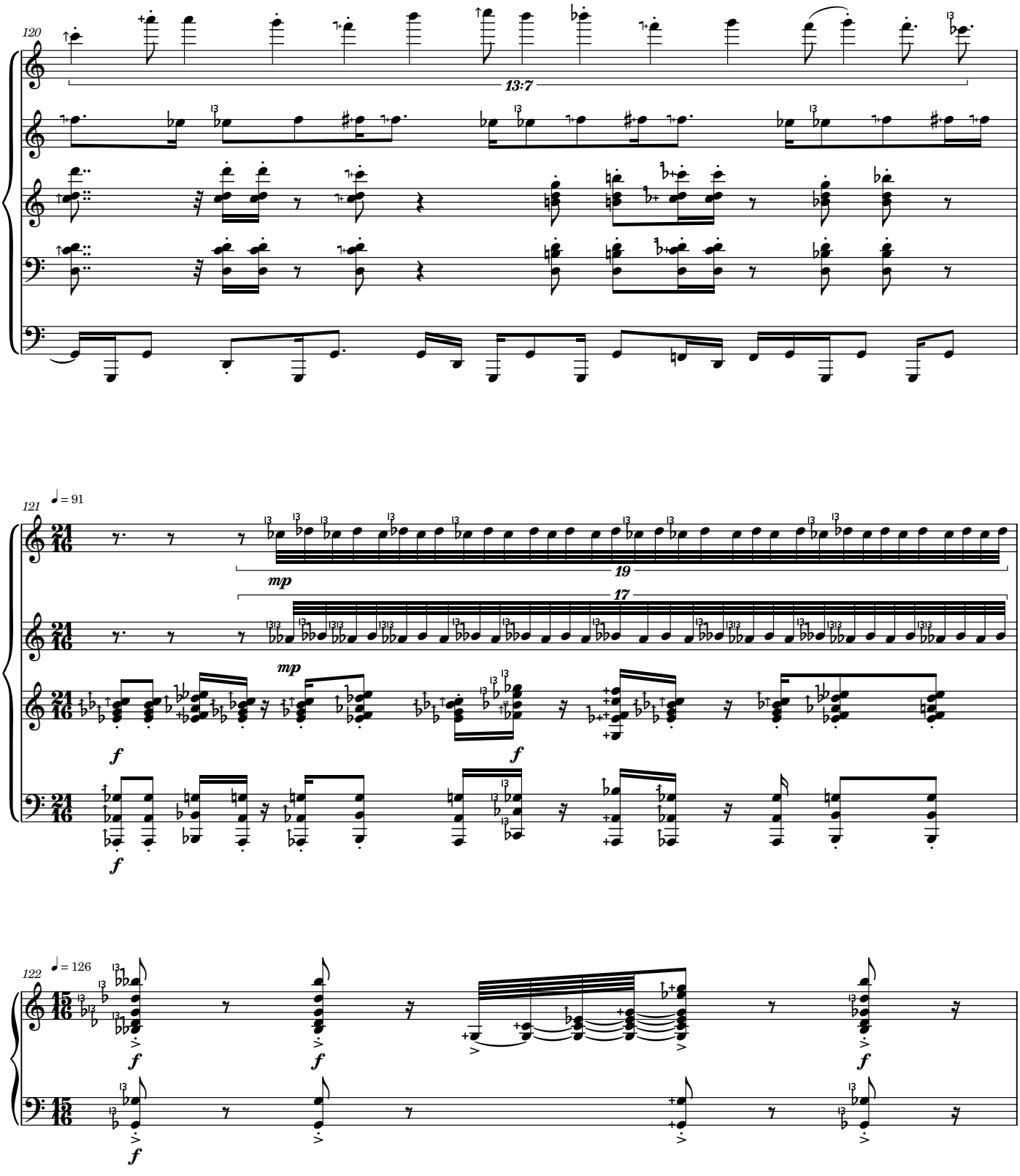

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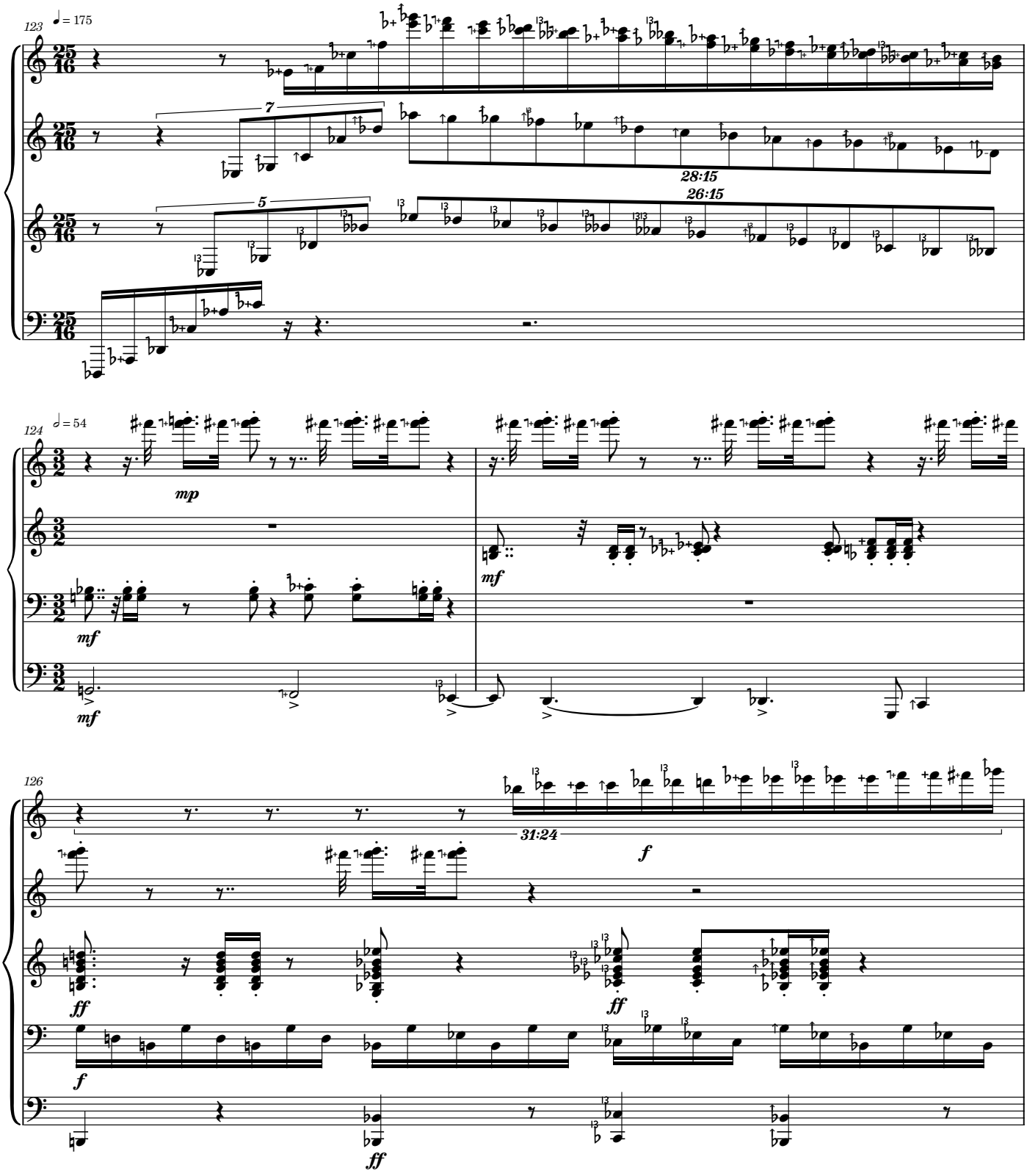

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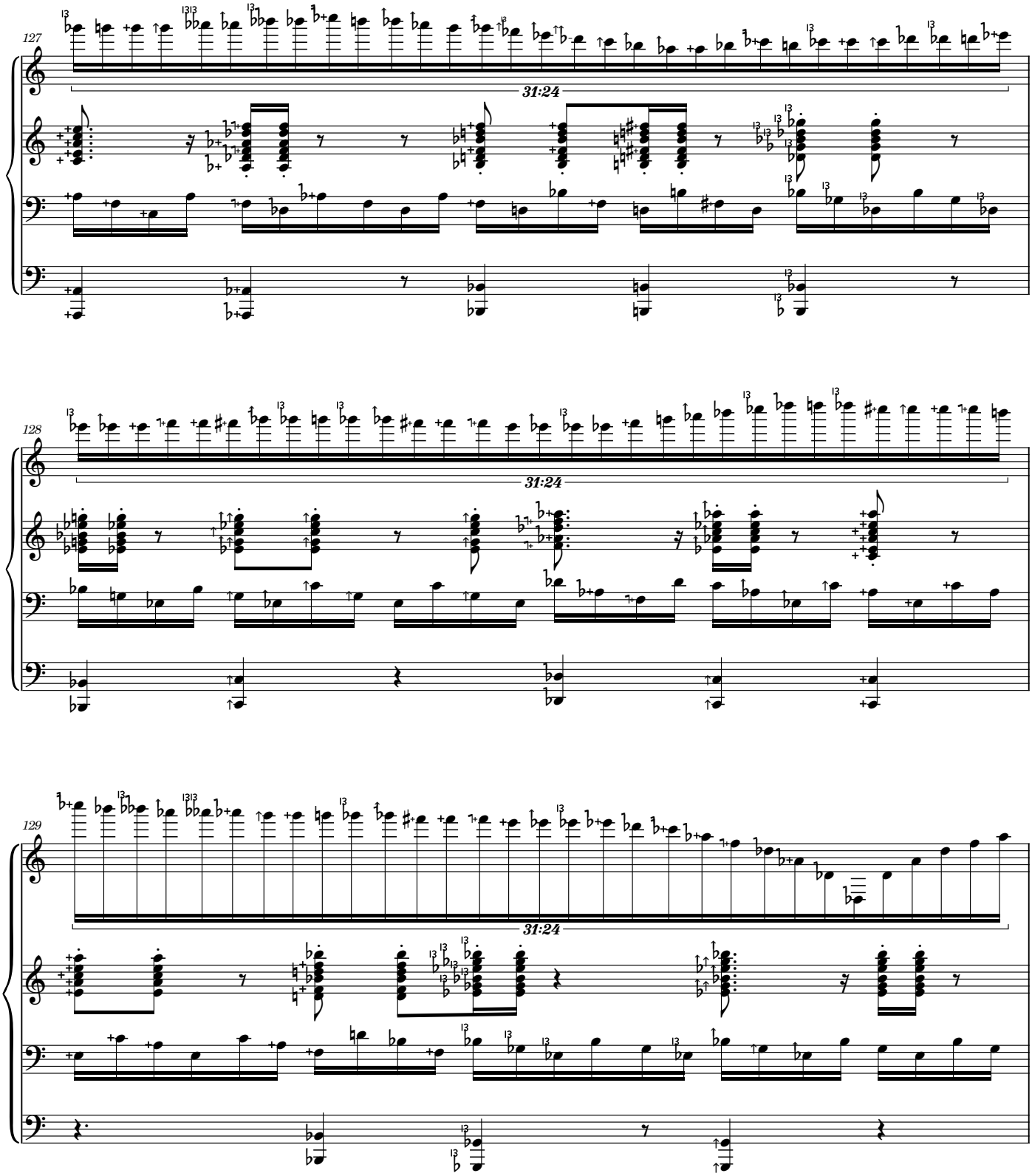

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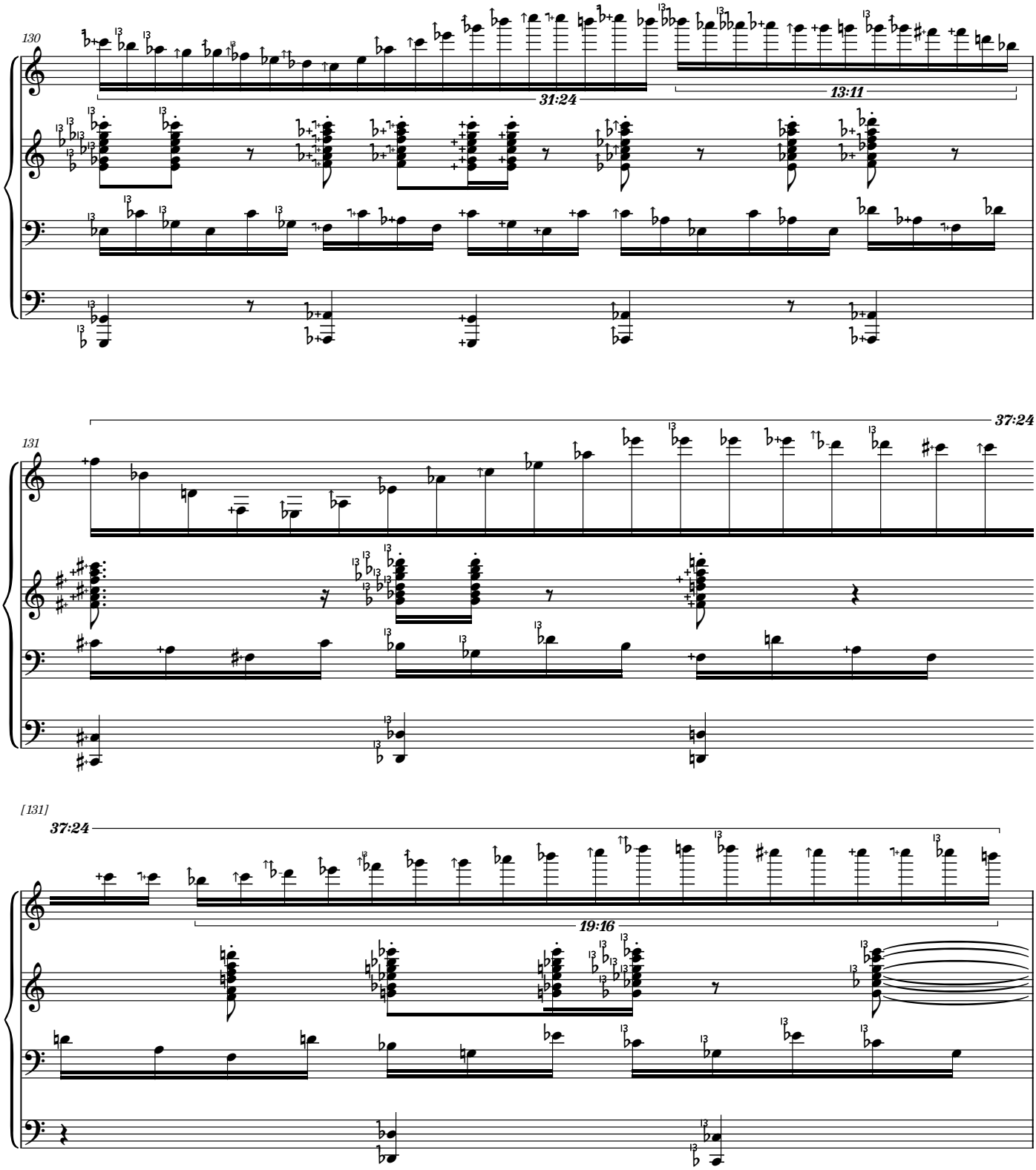

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f
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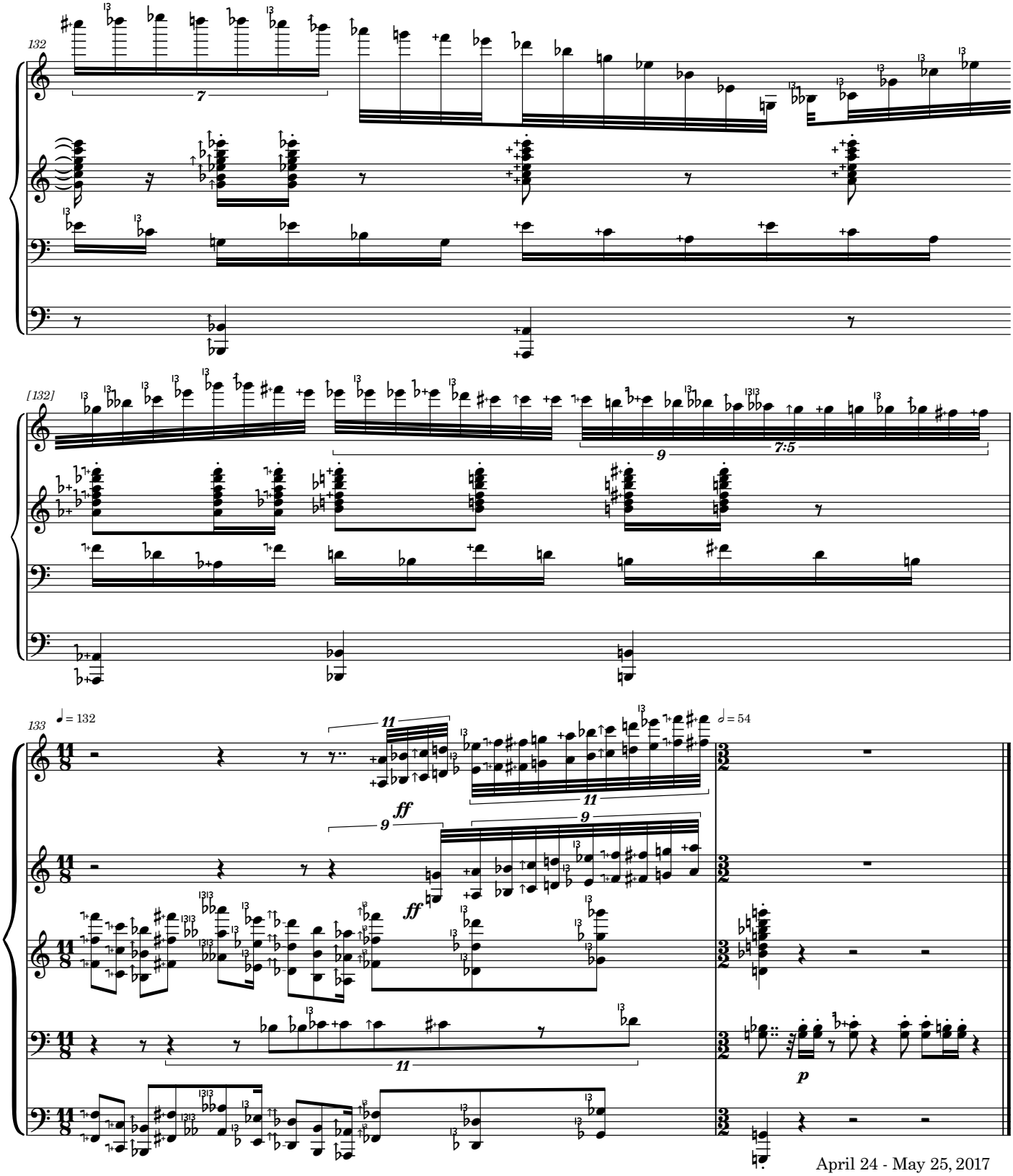

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13:7


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f
122
♩ = 126
f
f
f
f


123
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124
𝅗𝅥 = 54
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31:24
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ff


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129
31:24

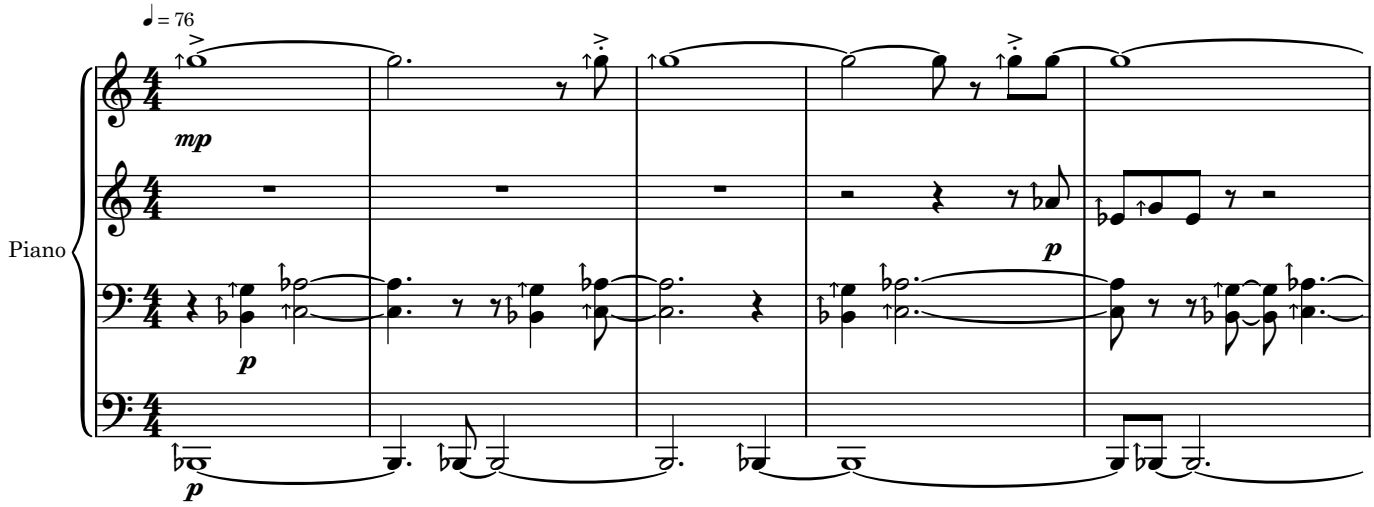

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37:24
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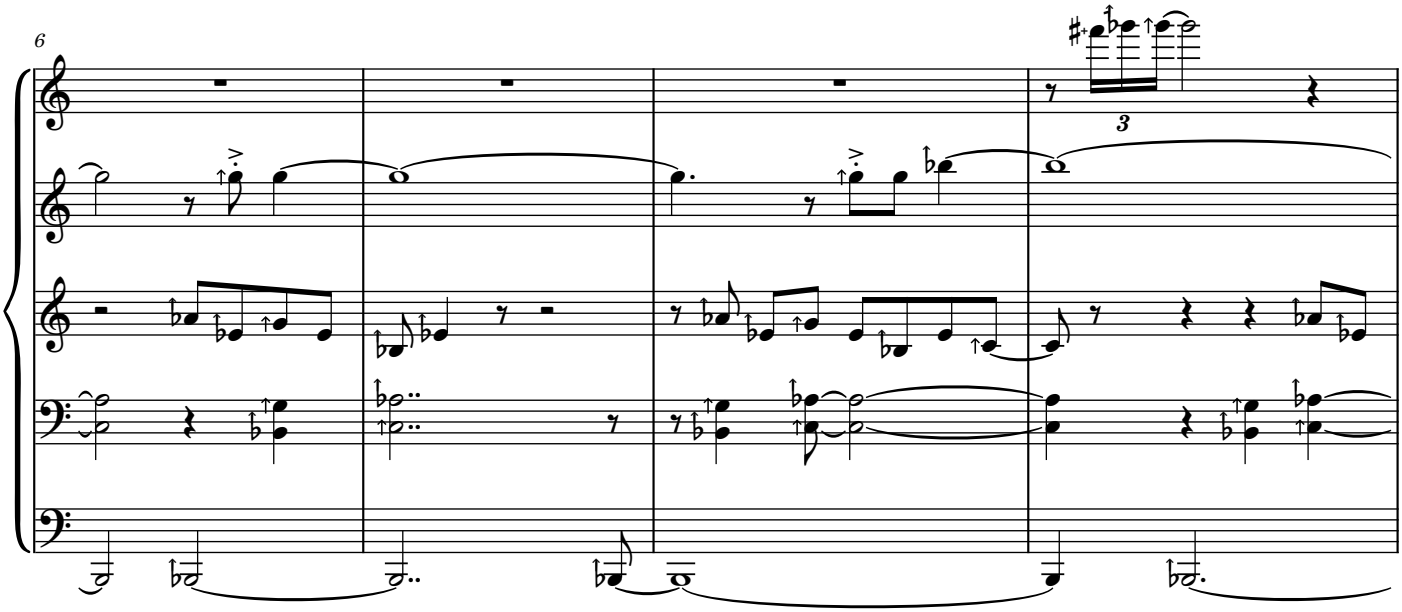


April 24 - May 25, 2017
Germantown, NY
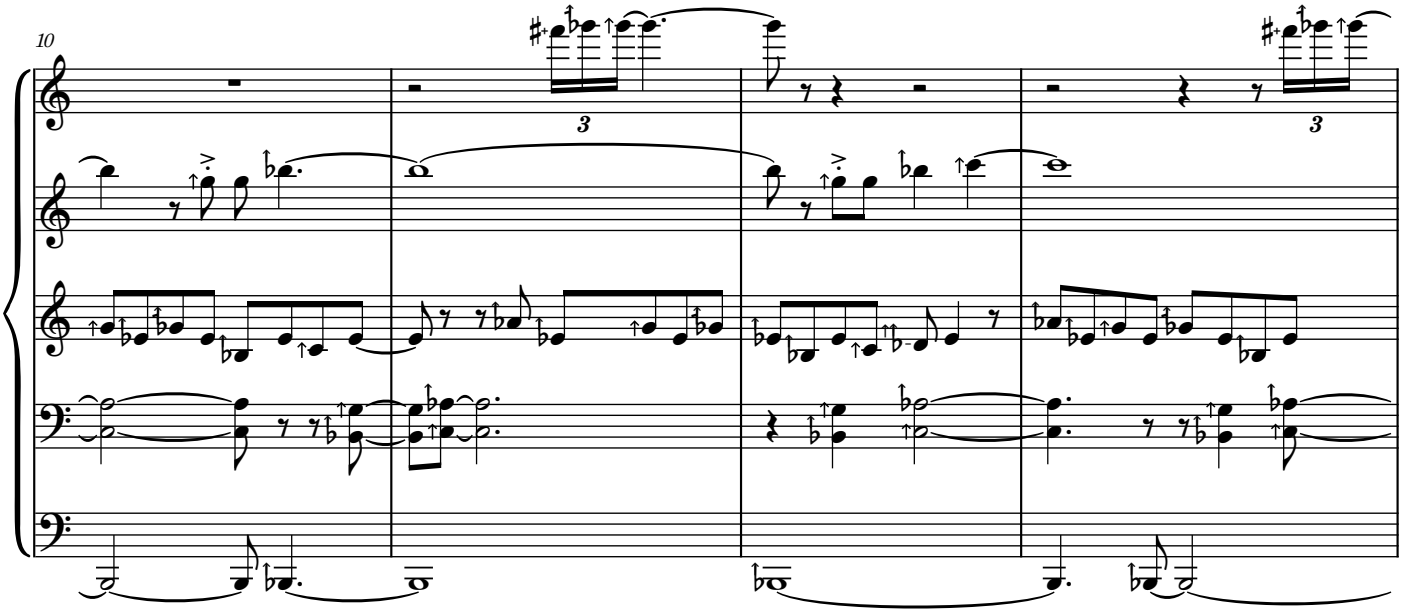
Rings of Saturn
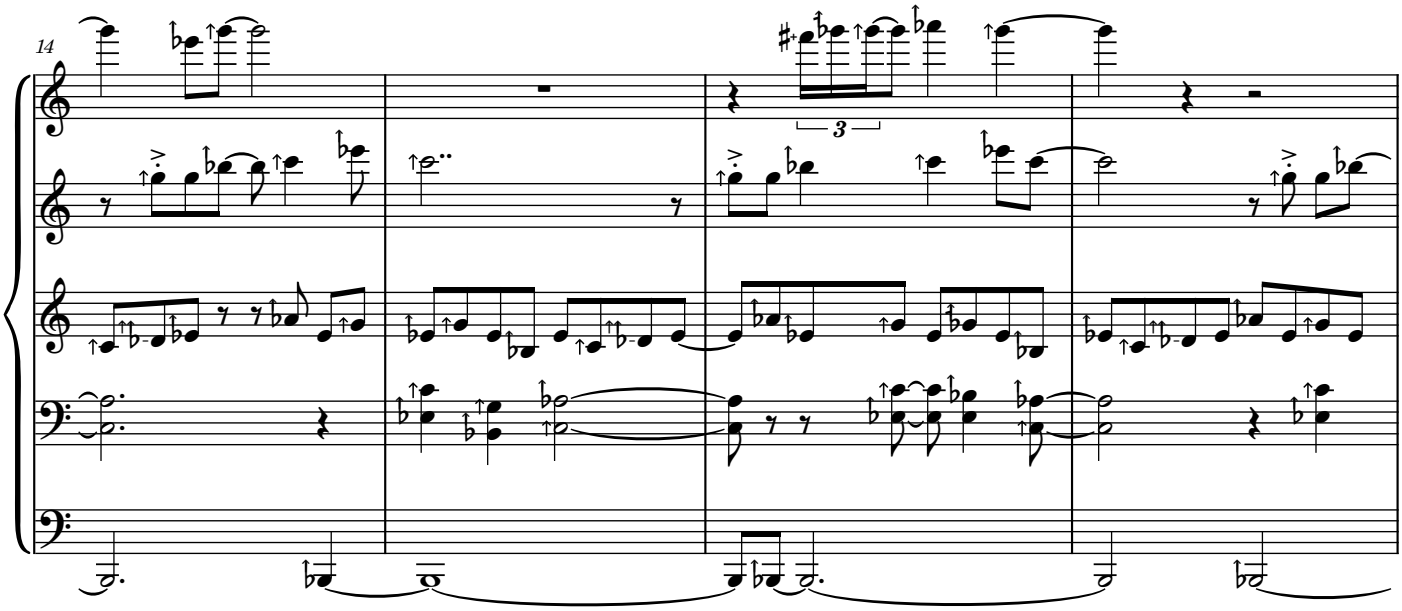
Kyle Gann
2016-17
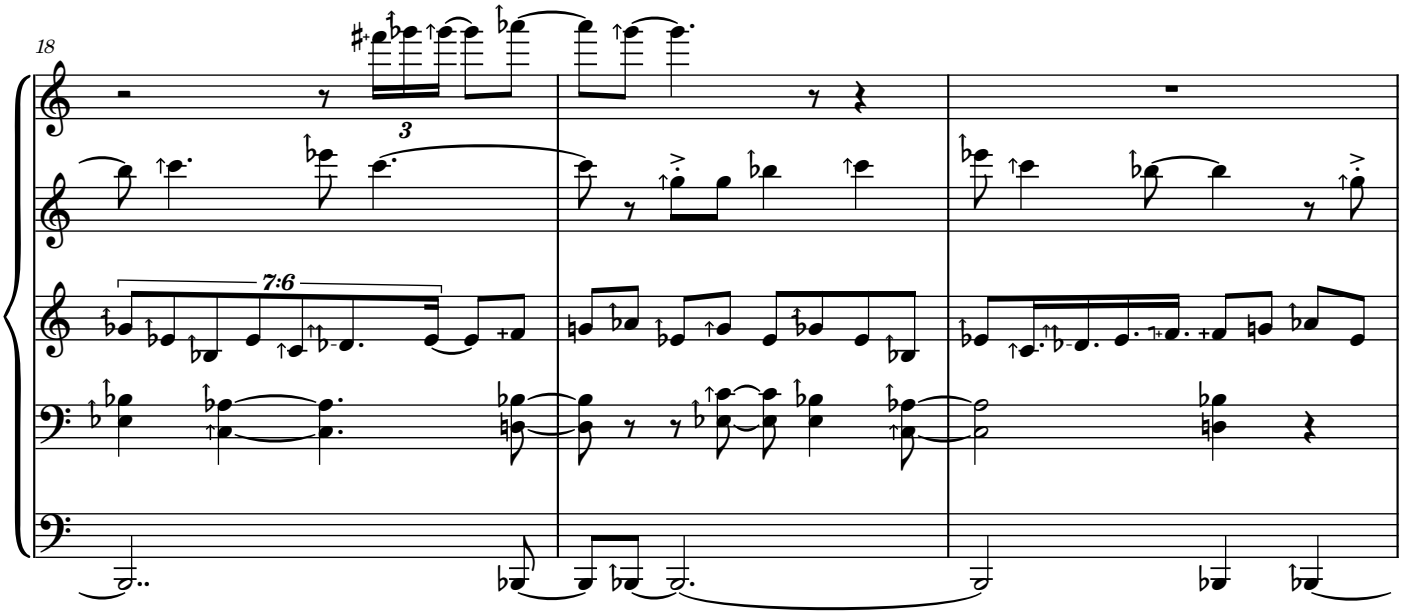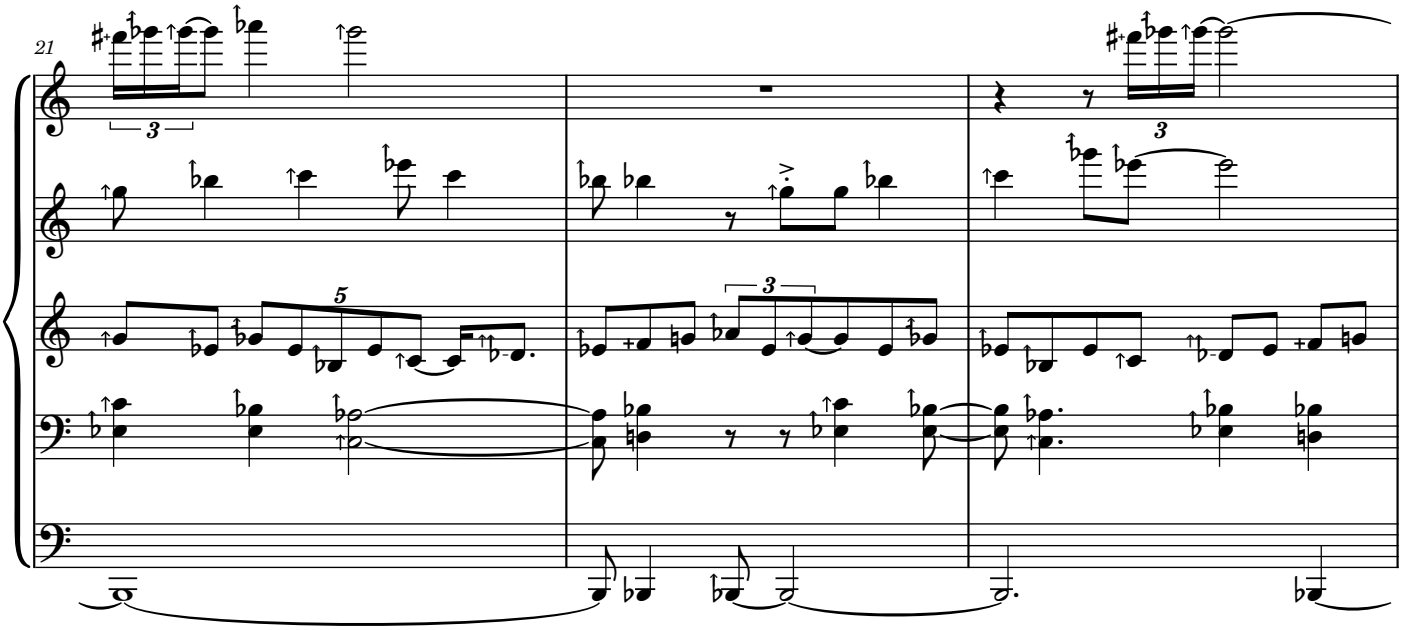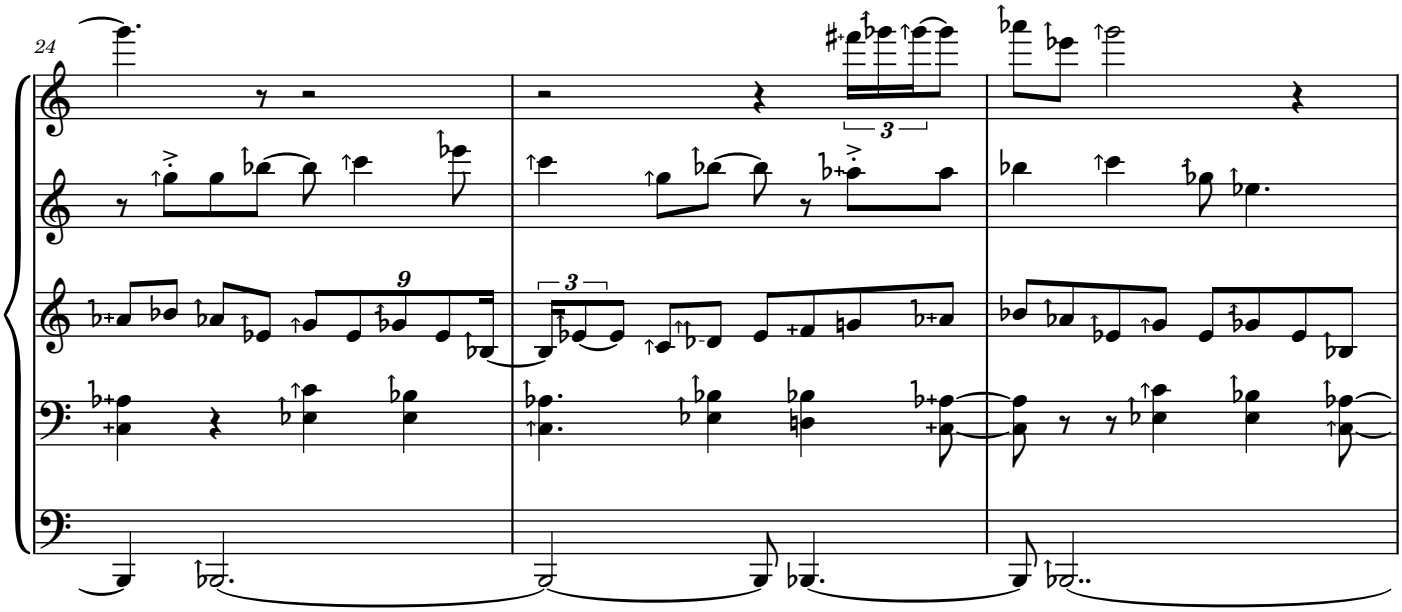




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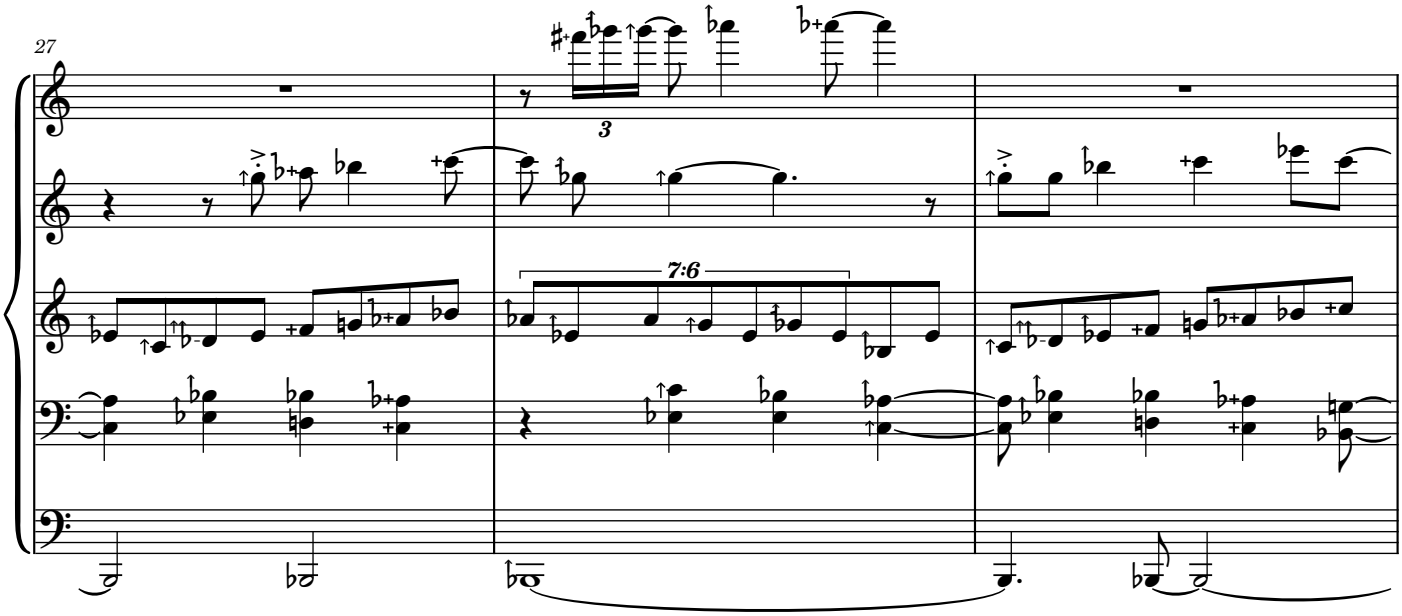

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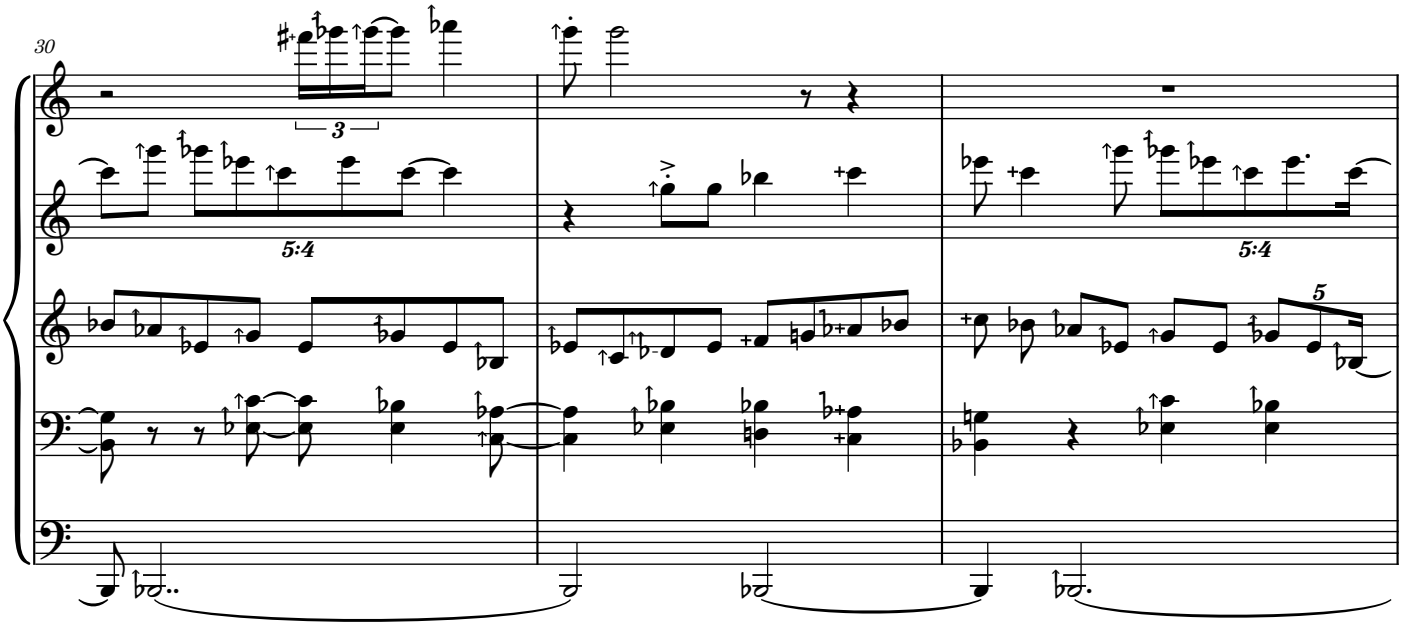

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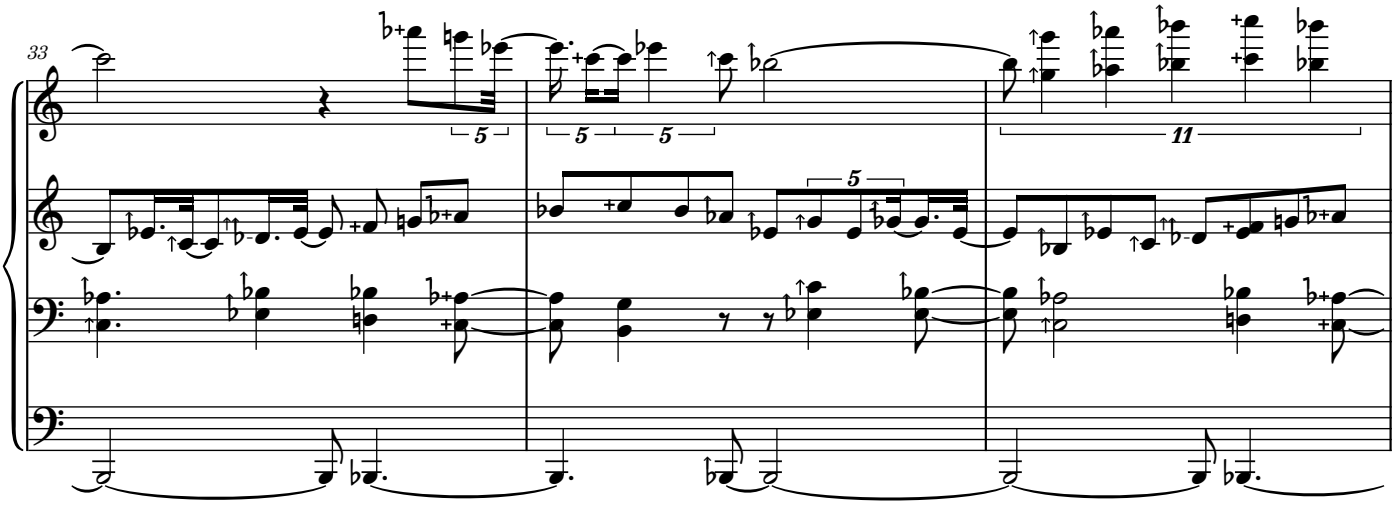

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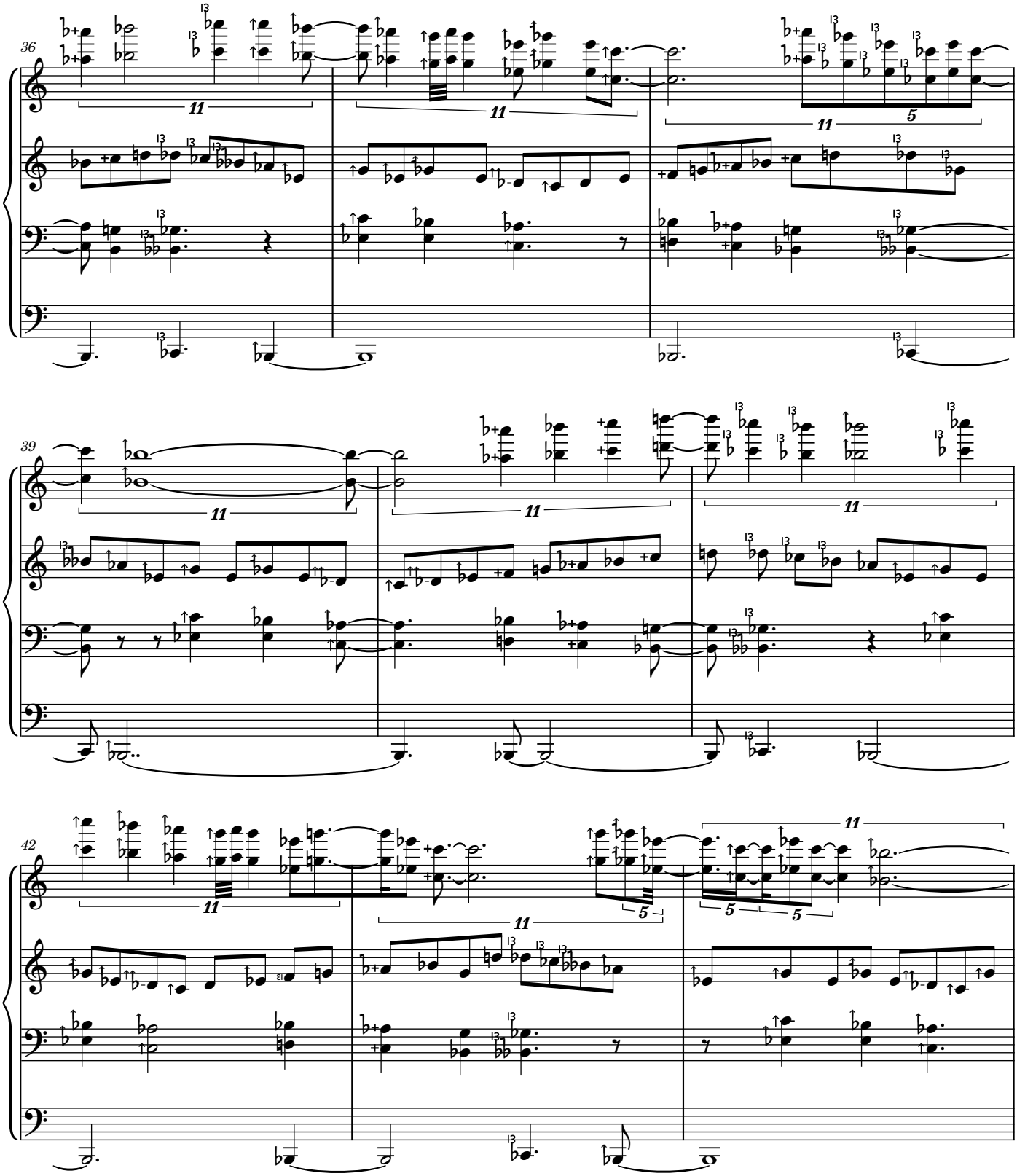

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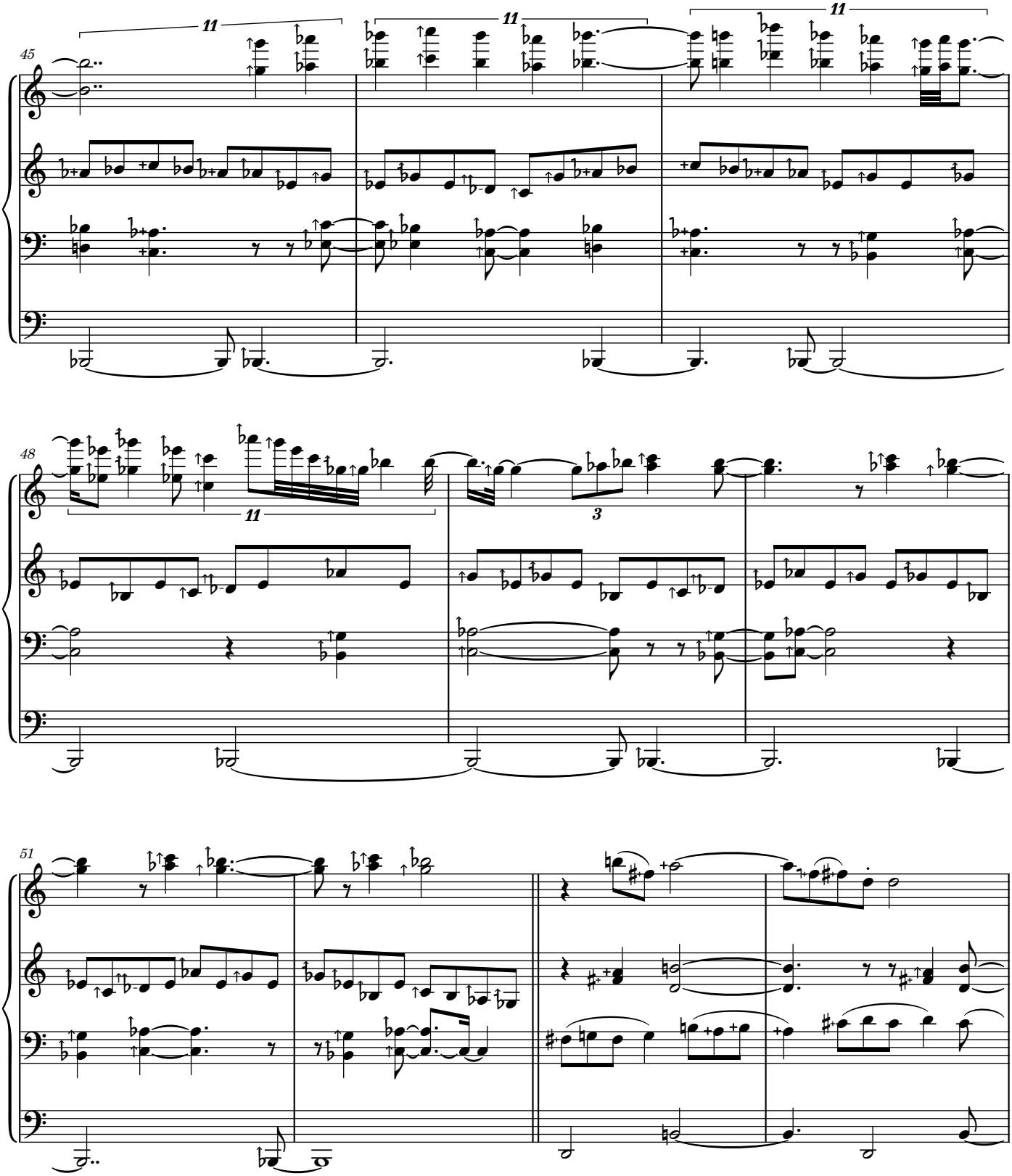

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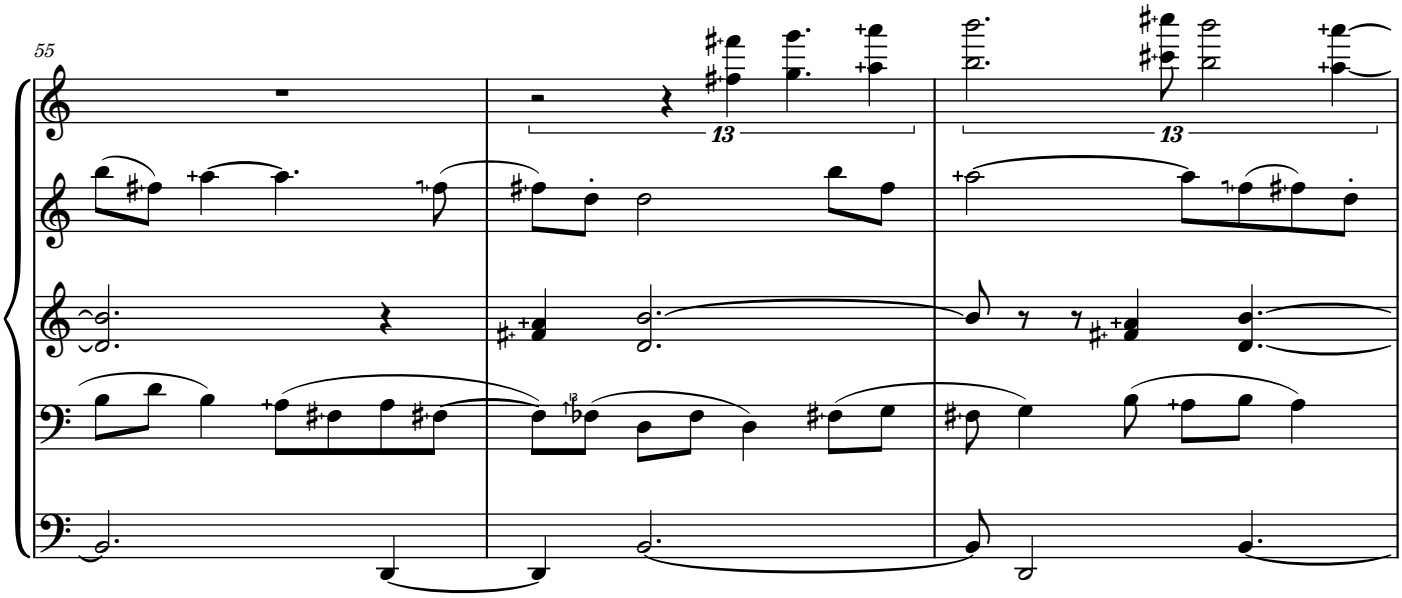

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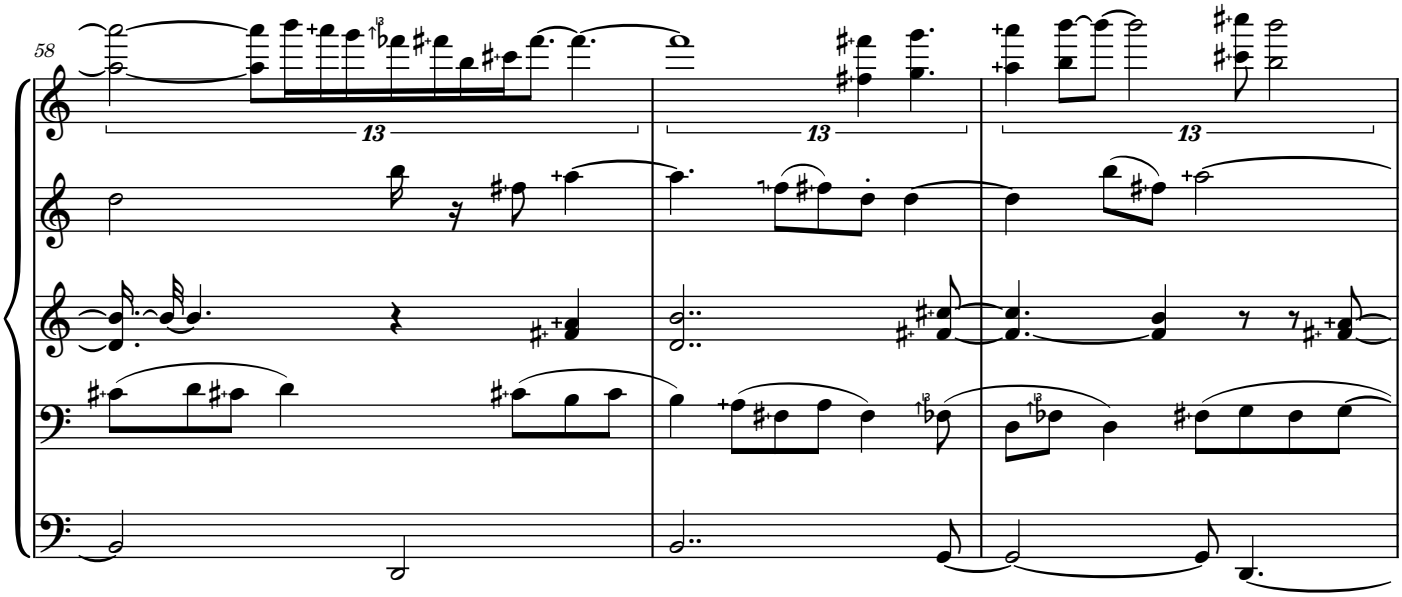

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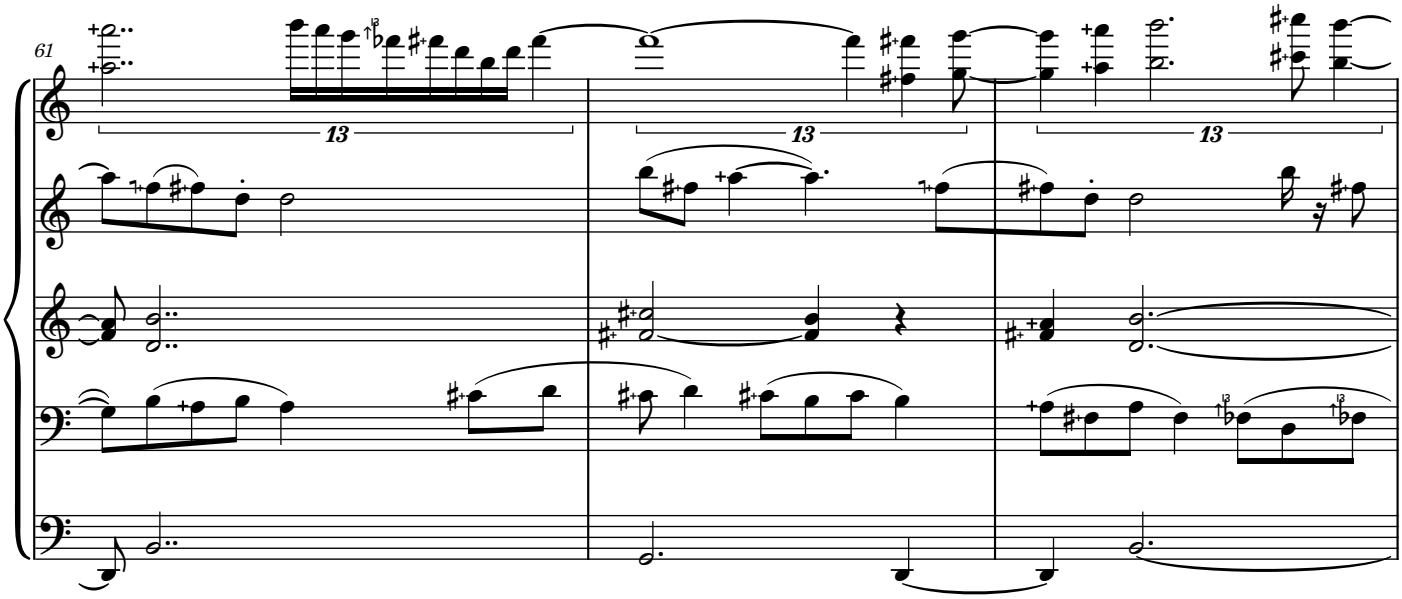

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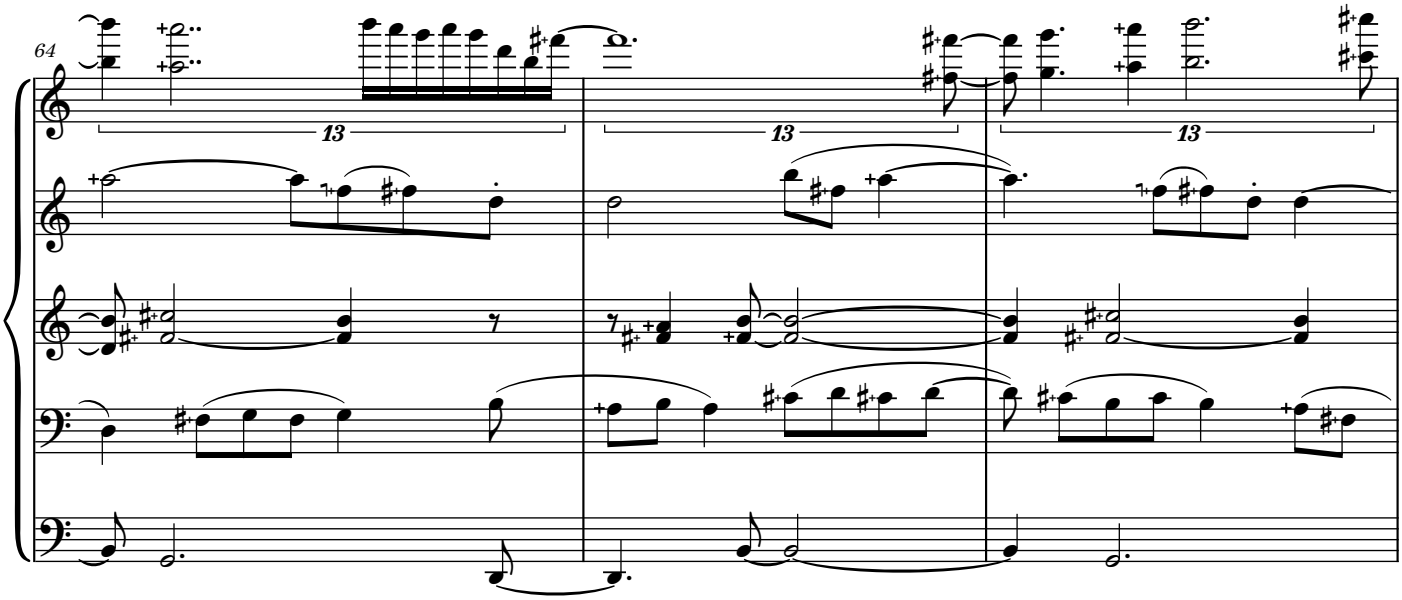

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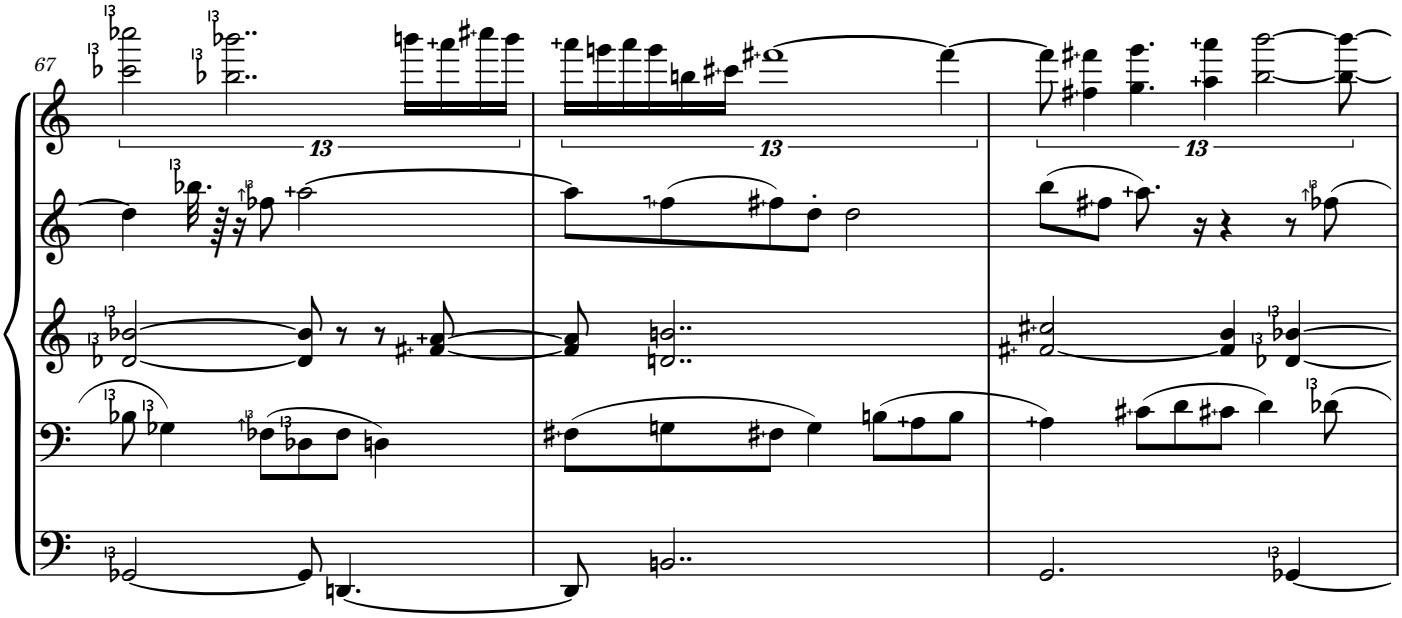

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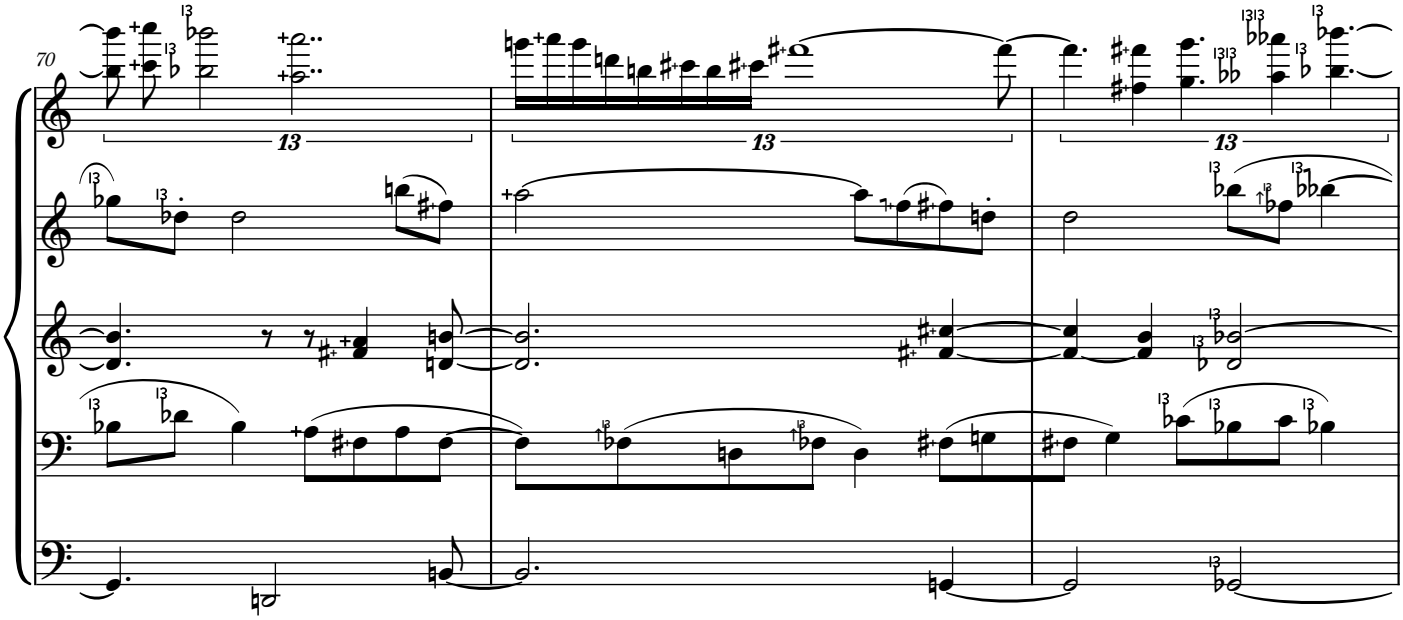

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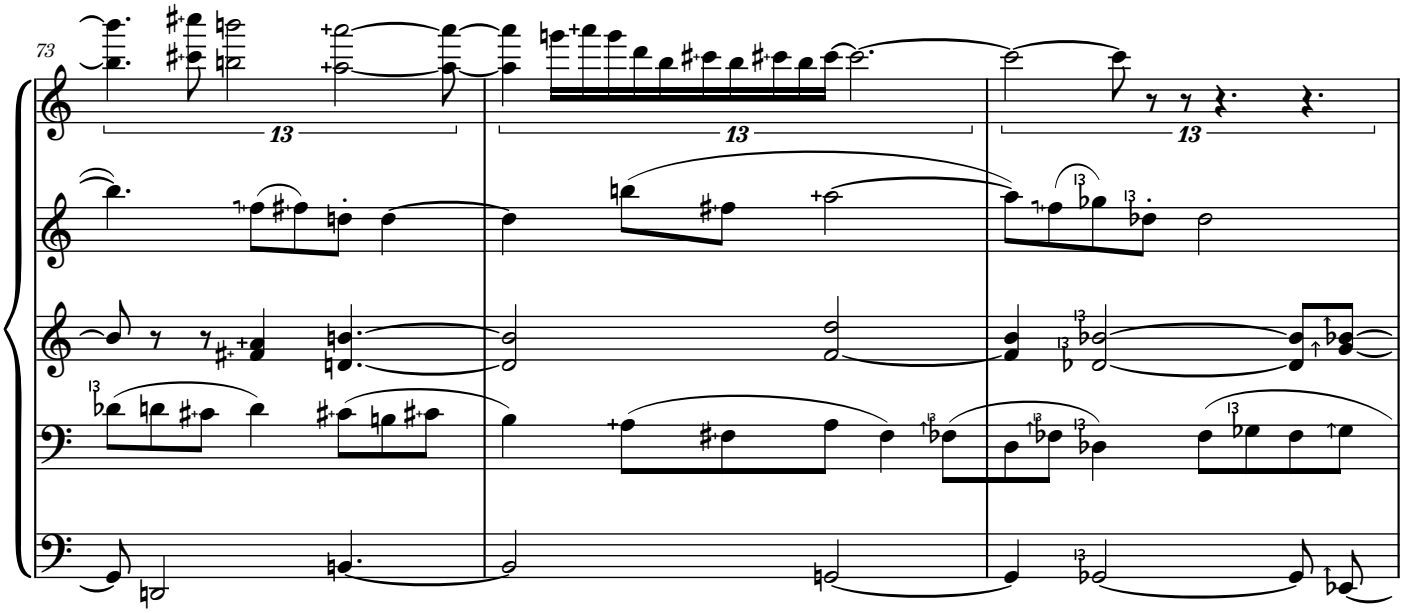

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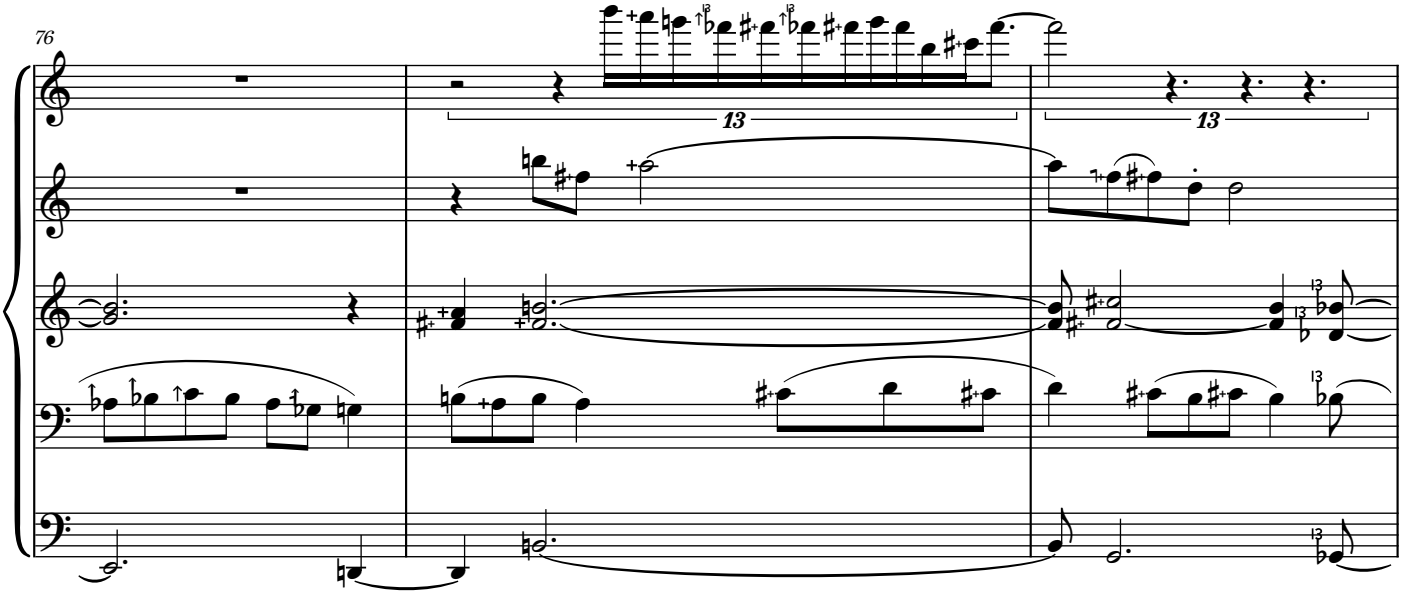

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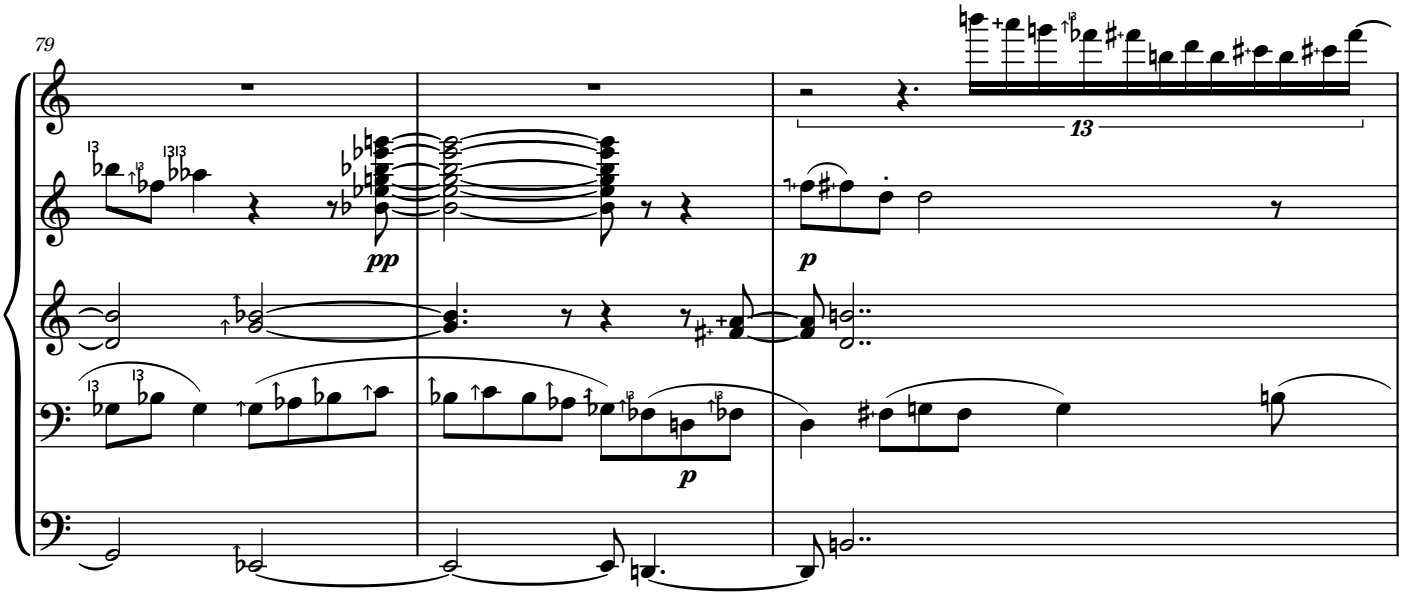

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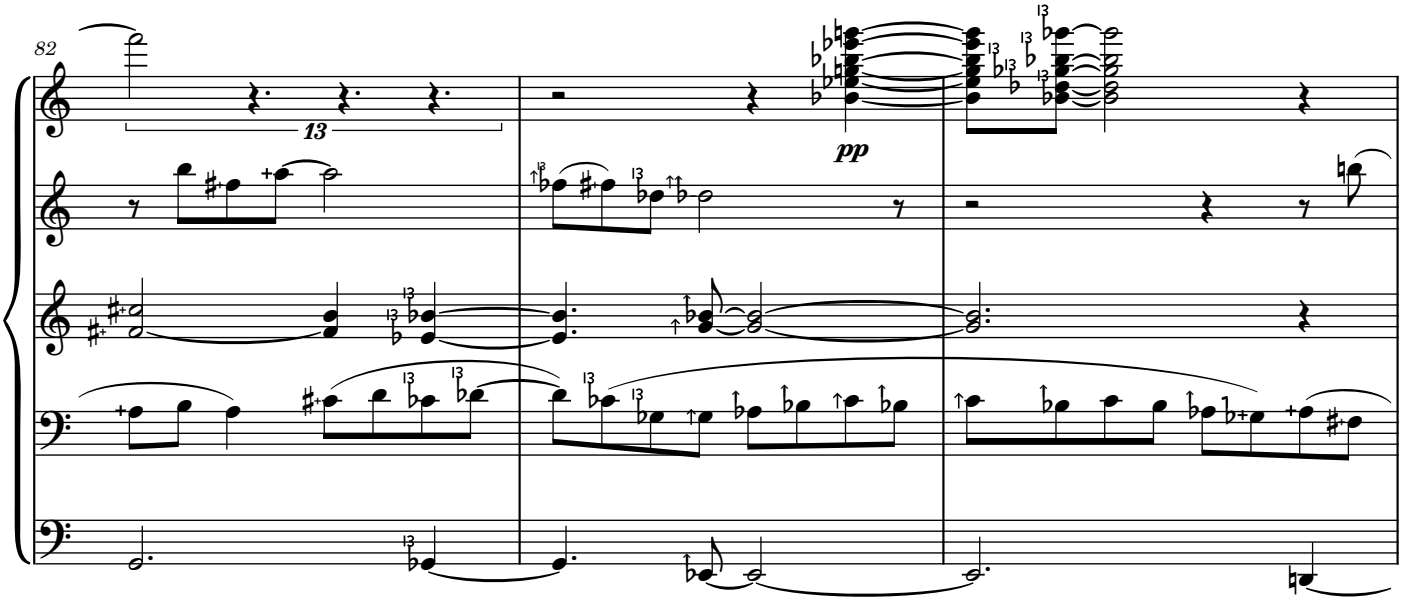

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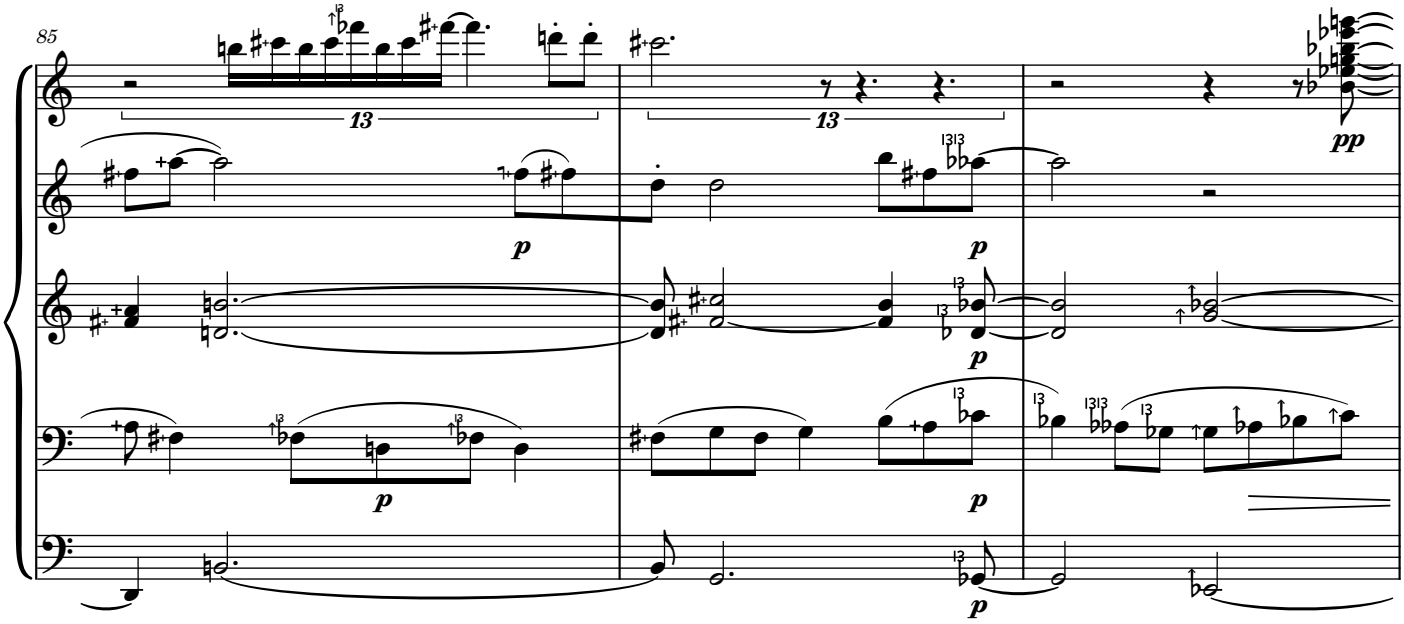

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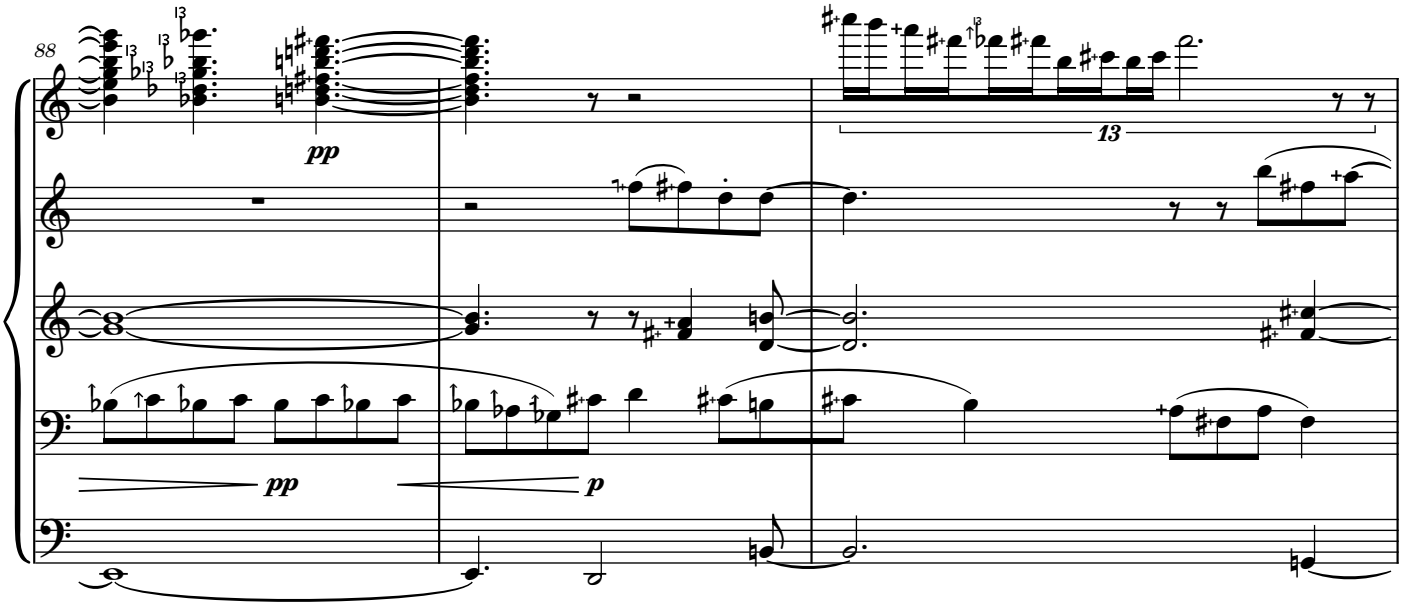

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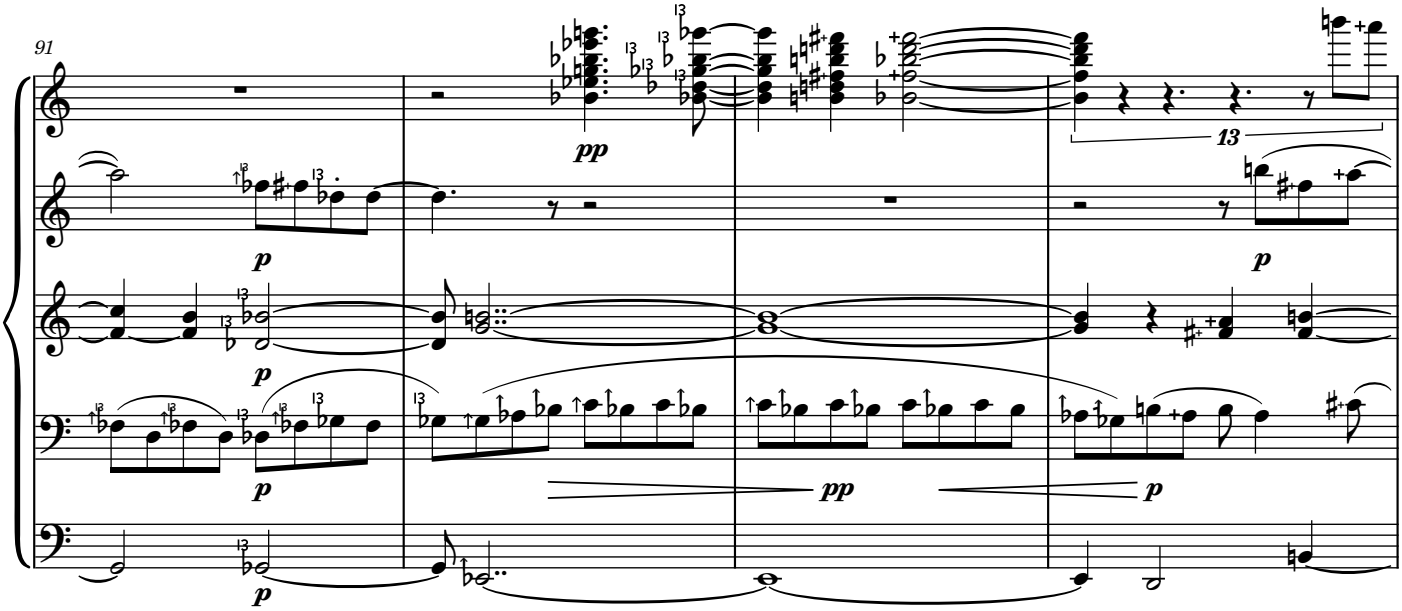

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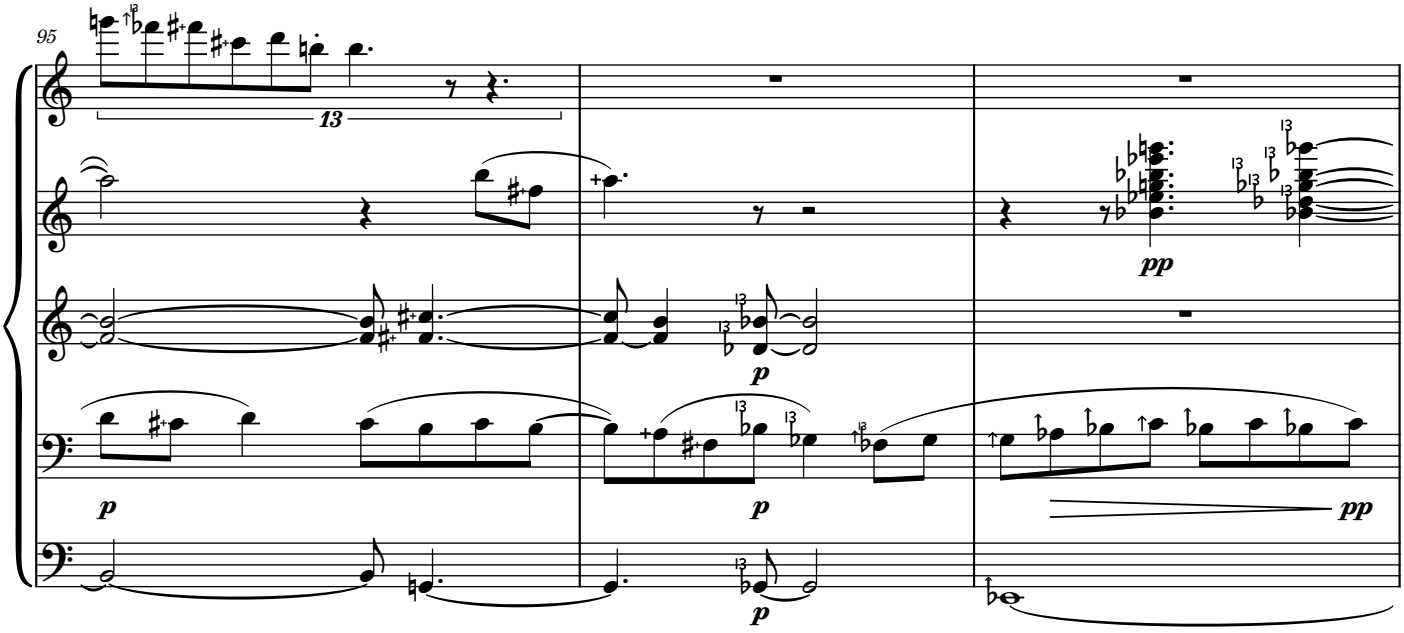

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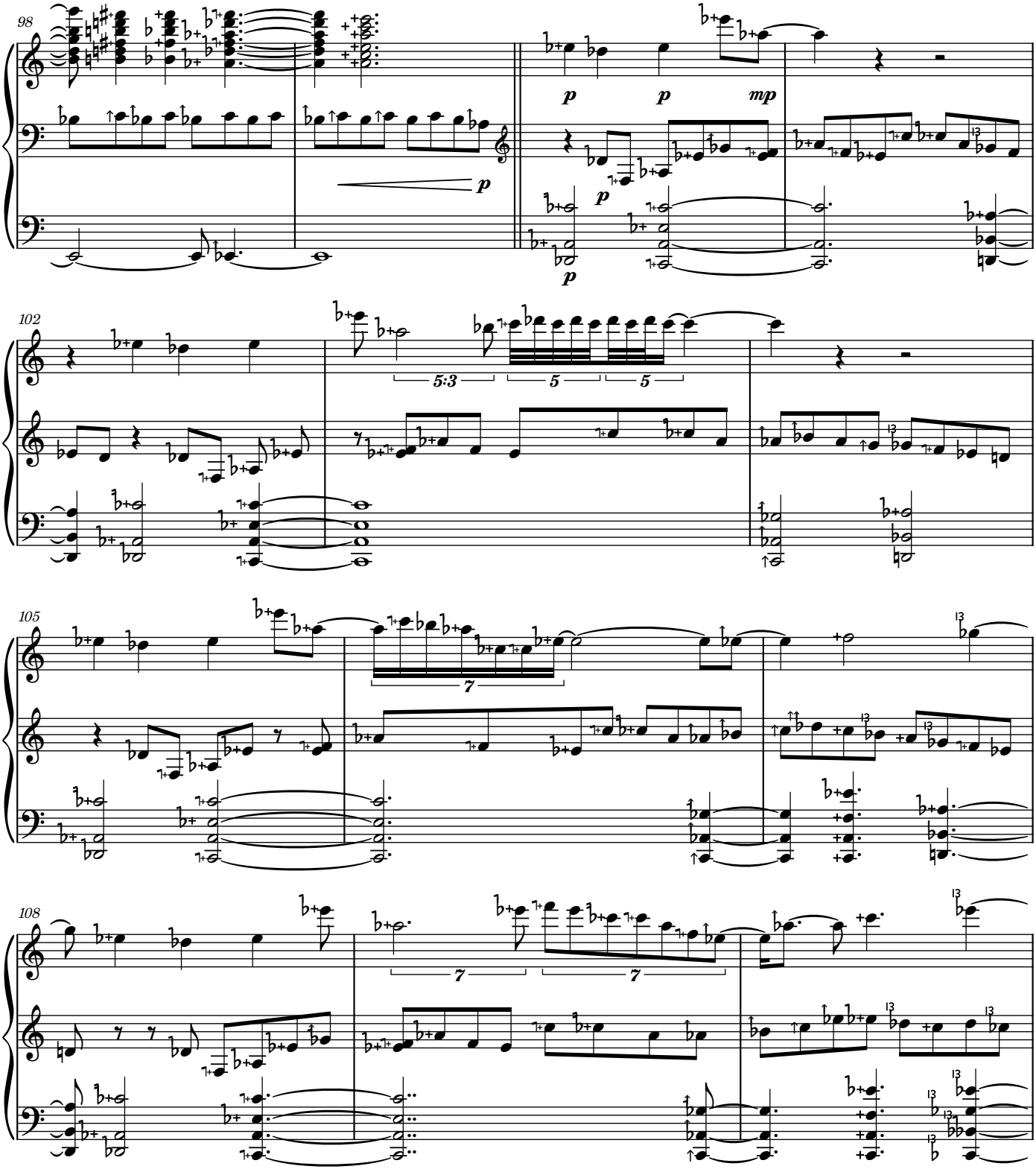

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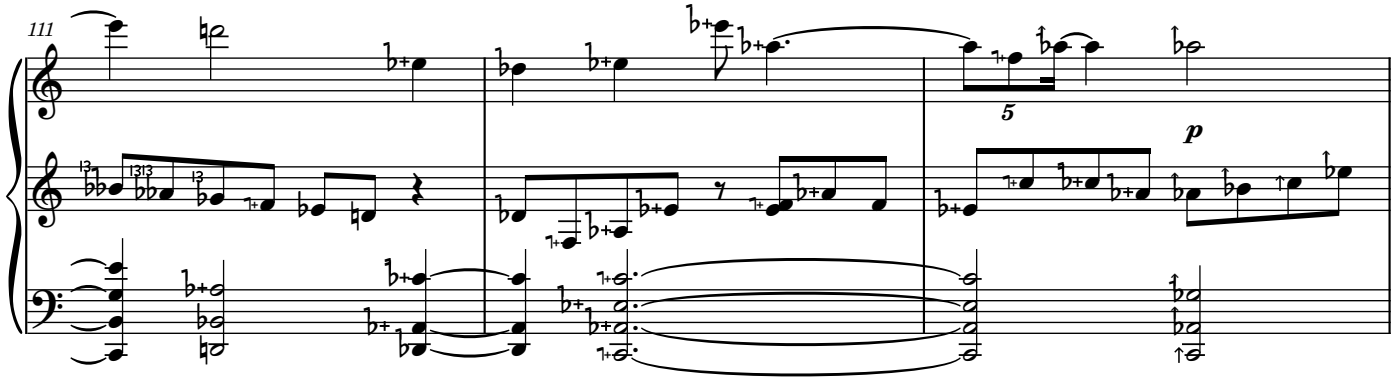

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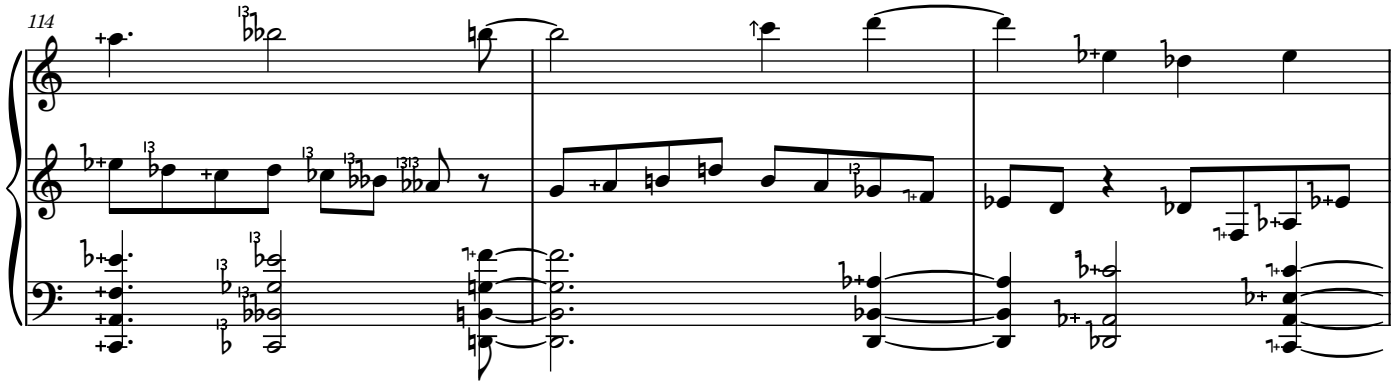

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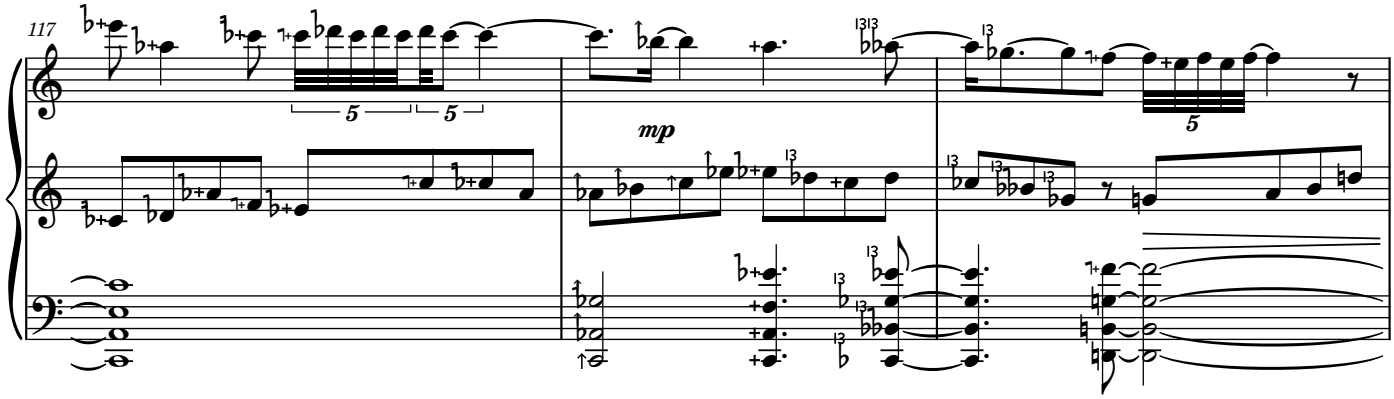

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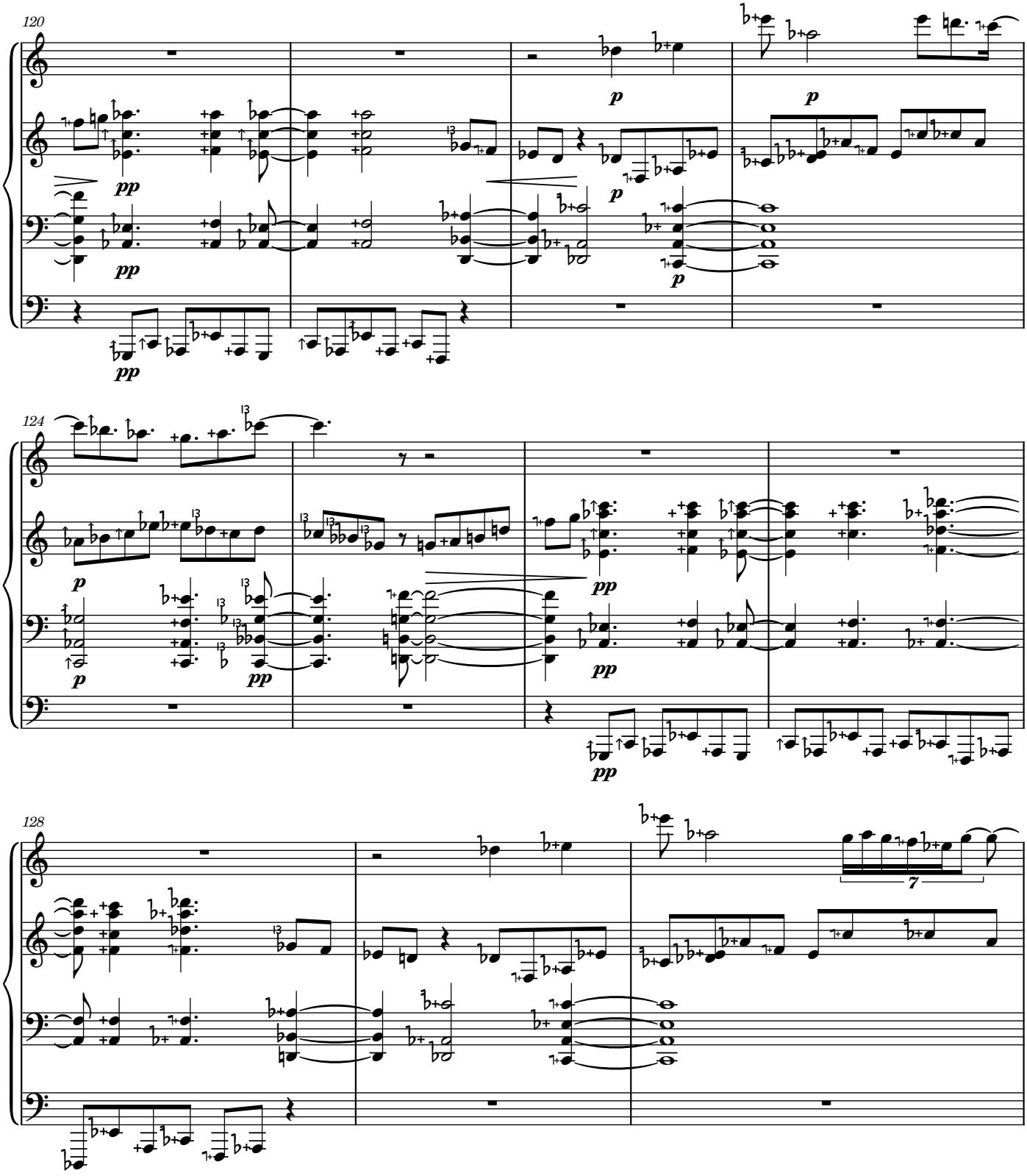

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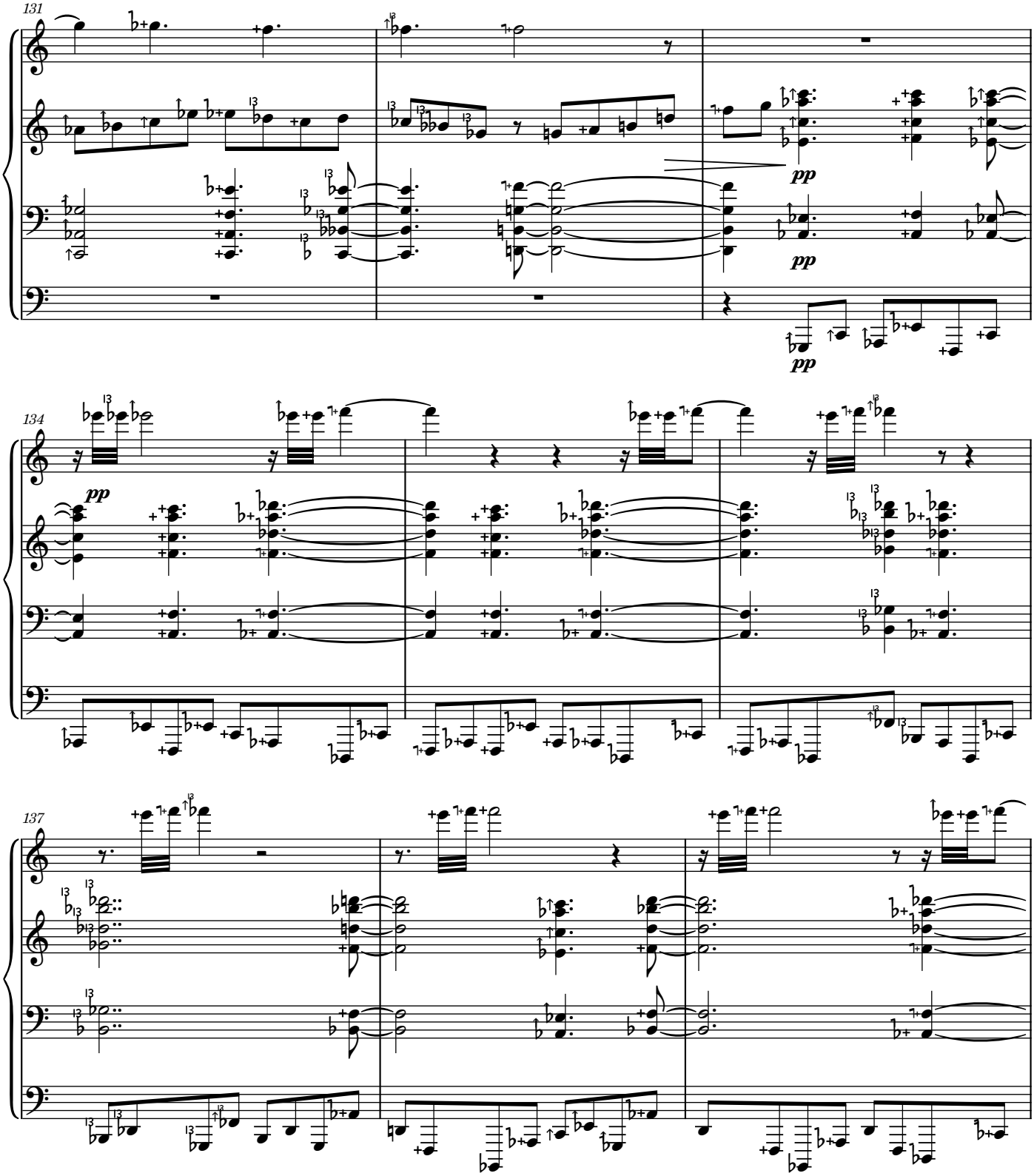

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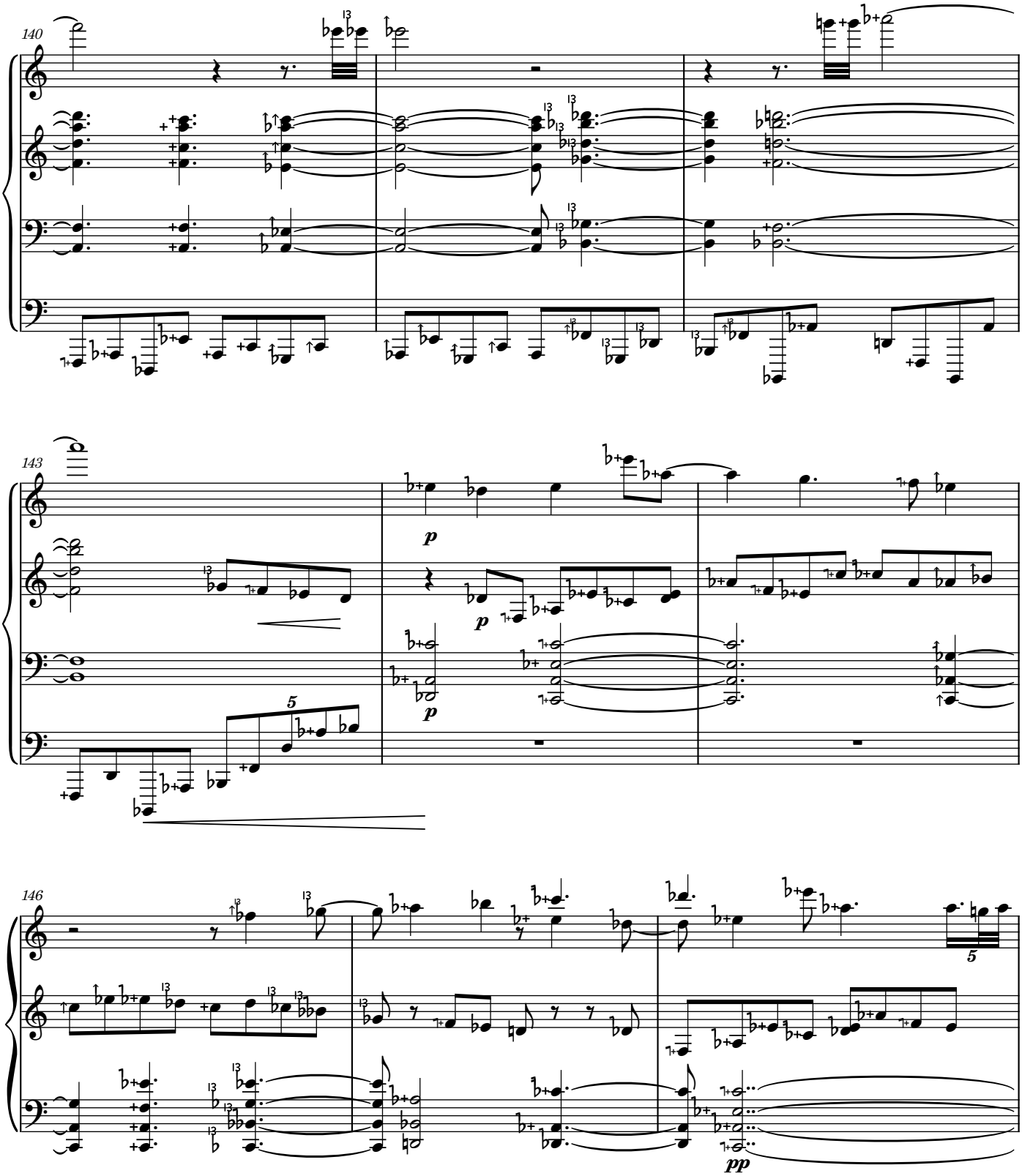

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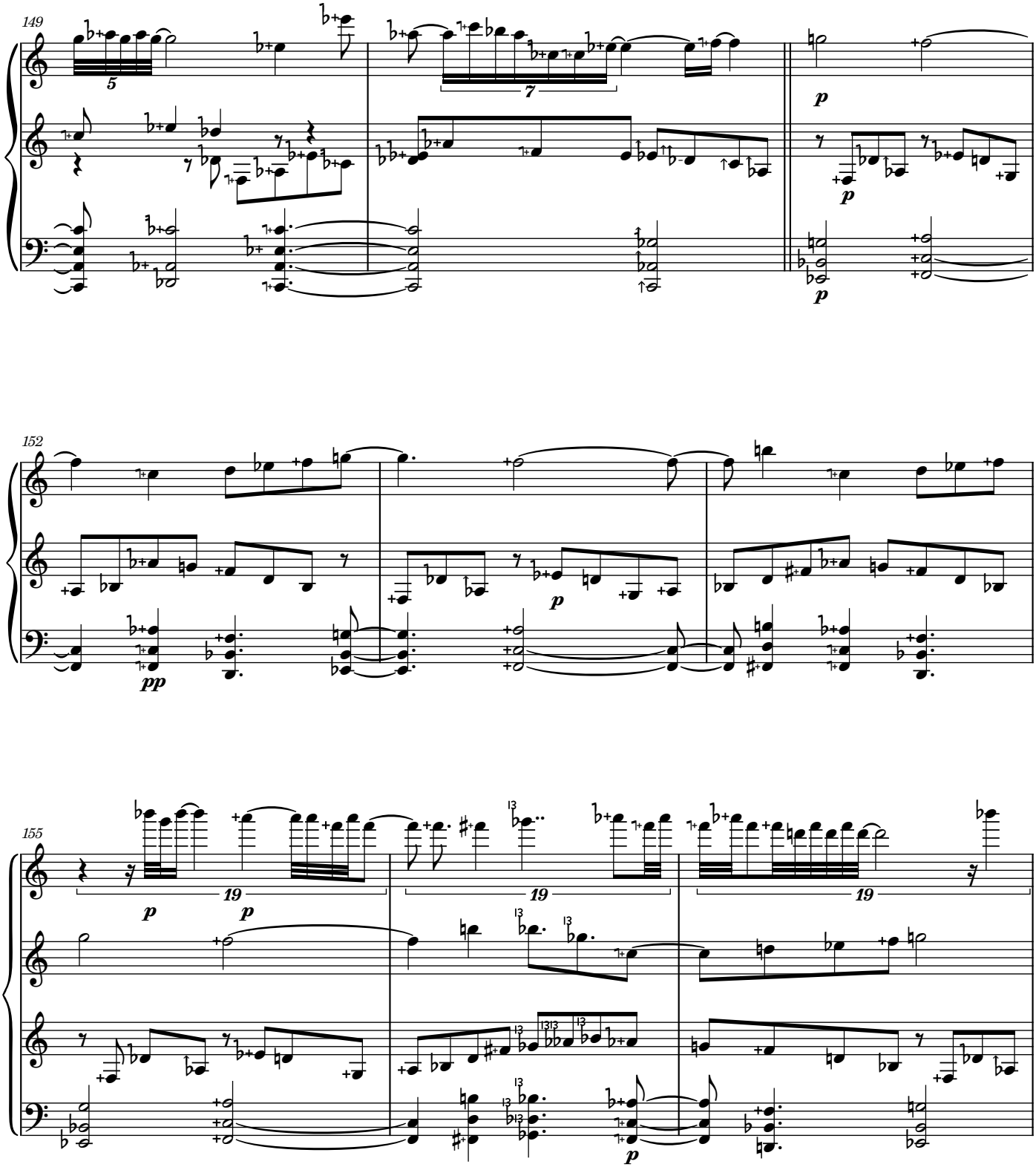

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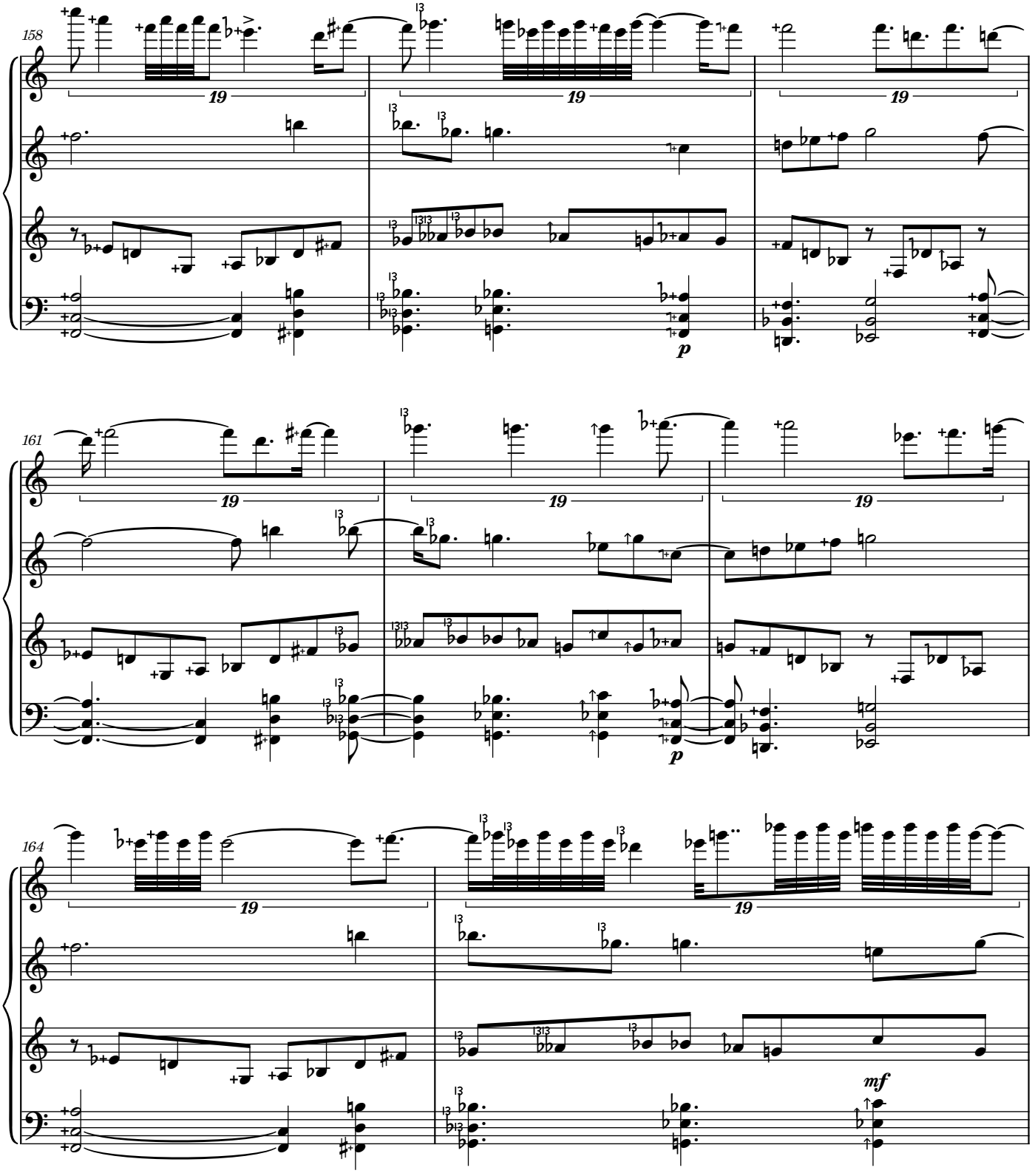

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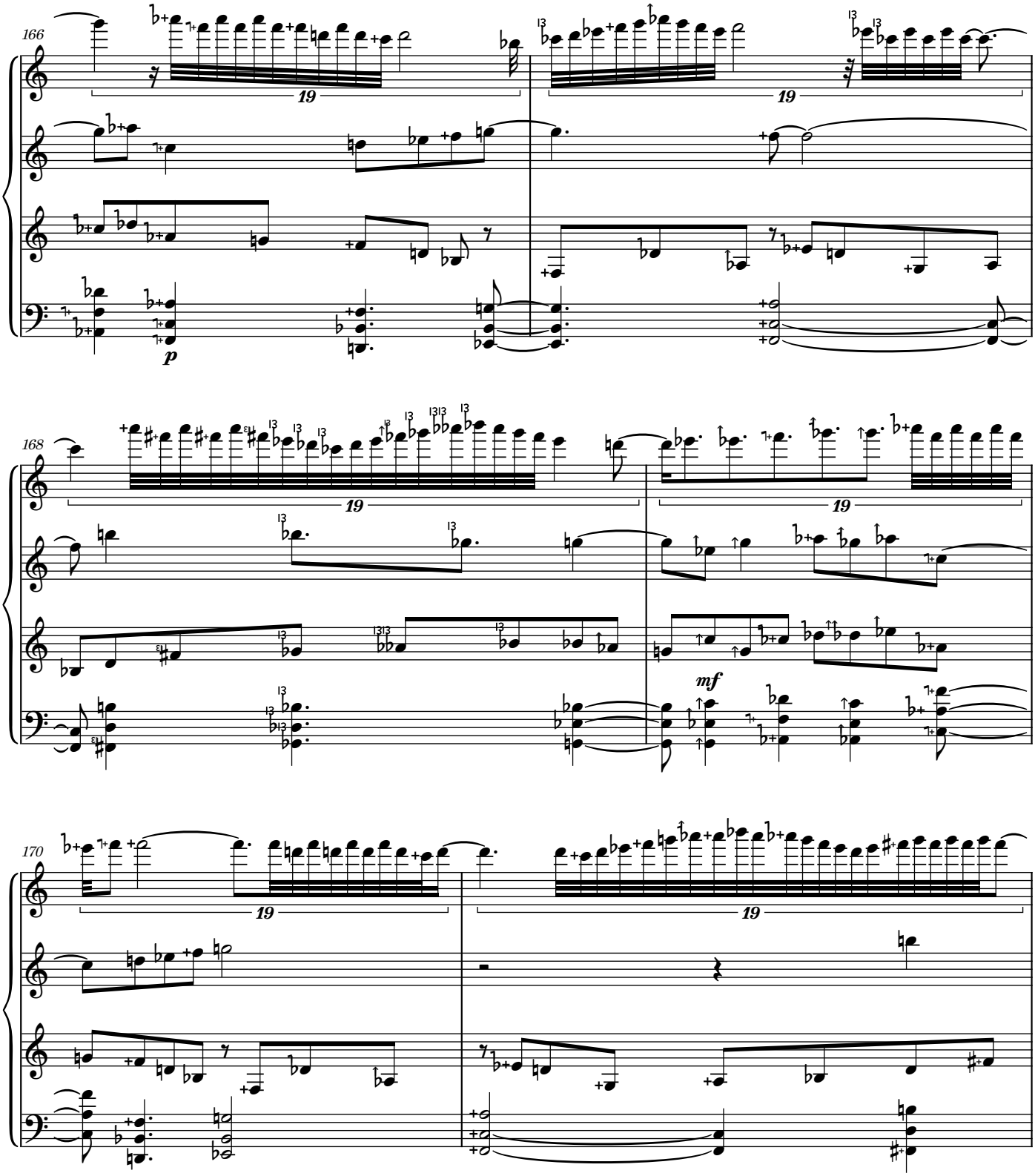

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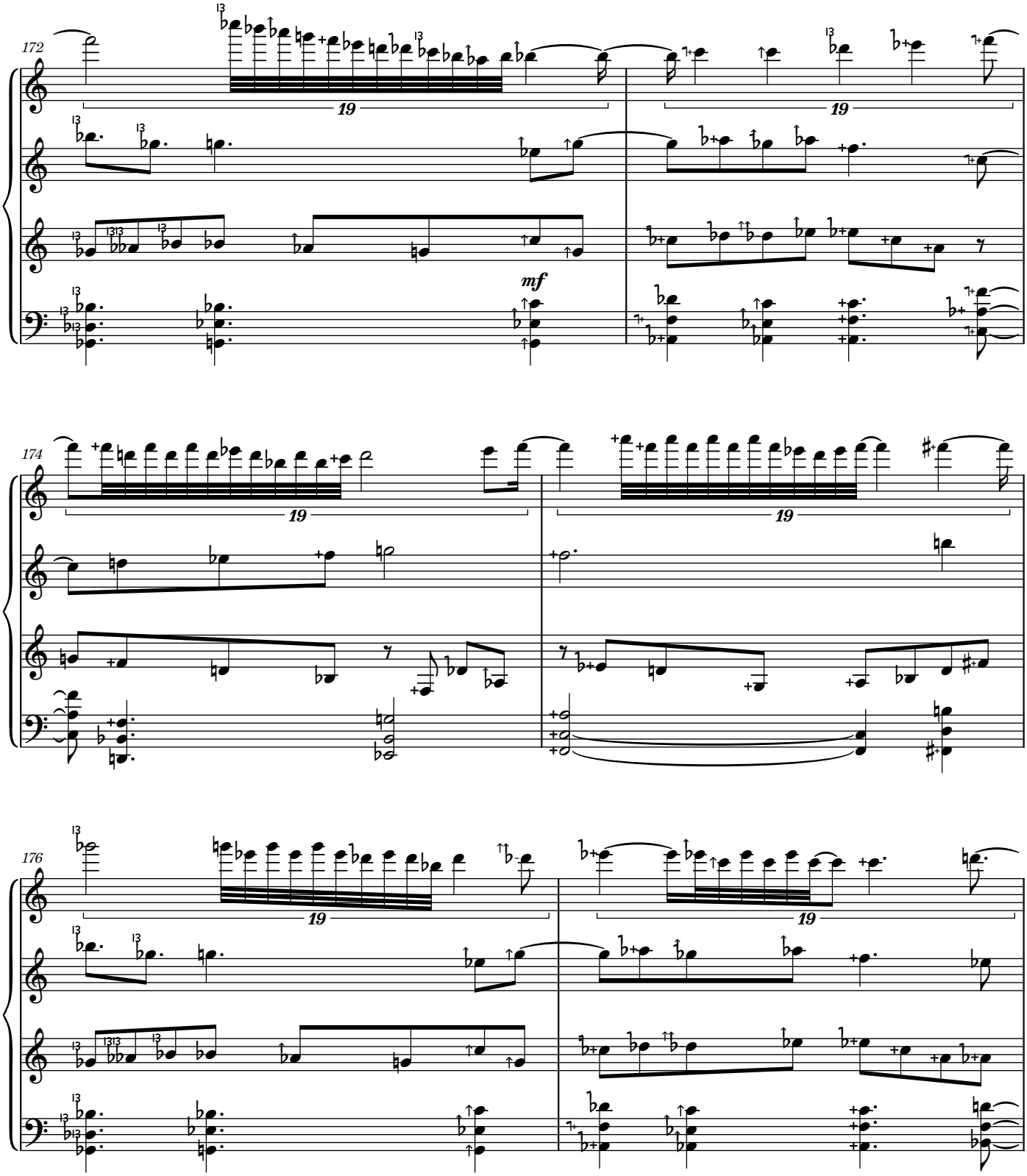

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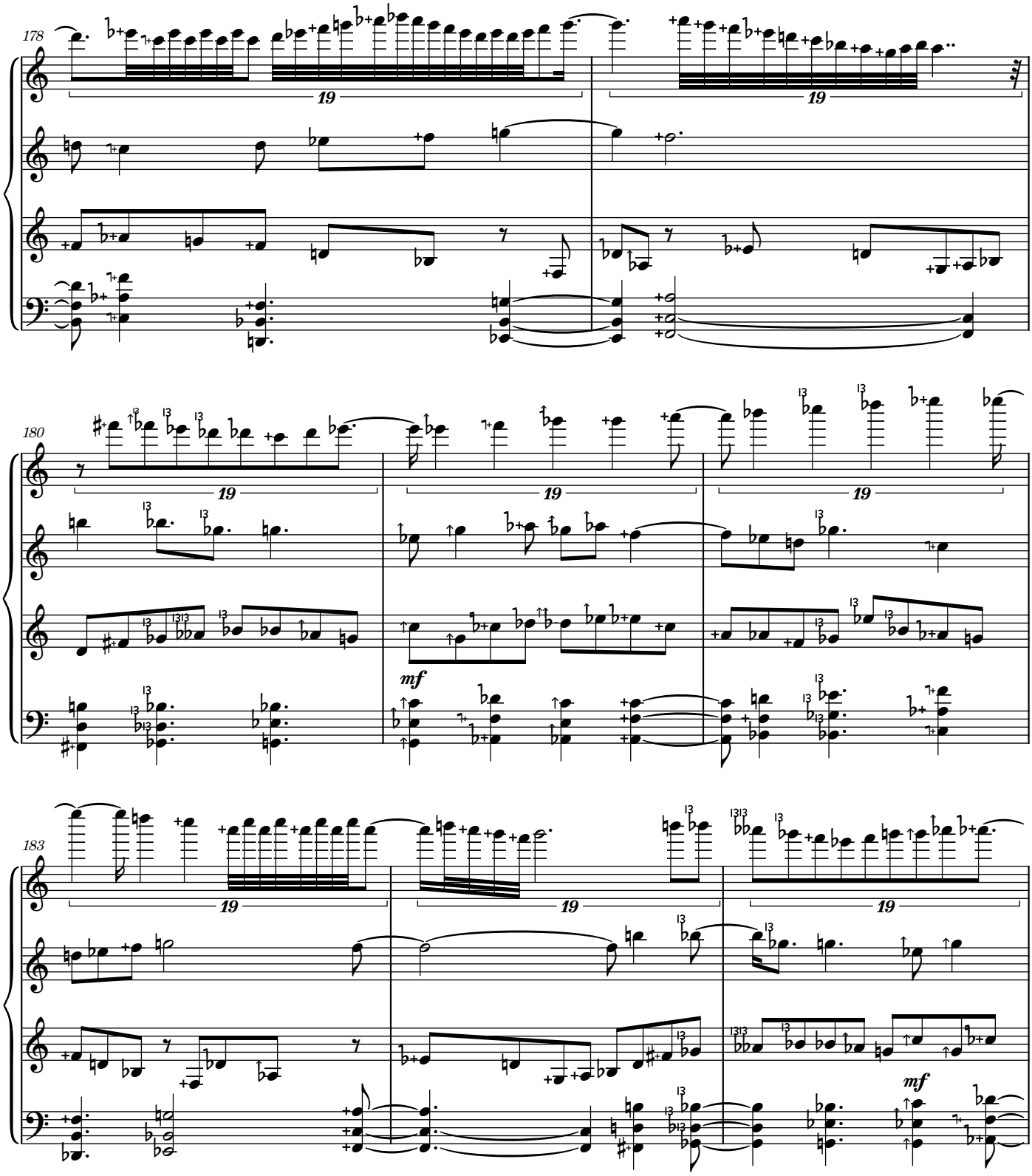

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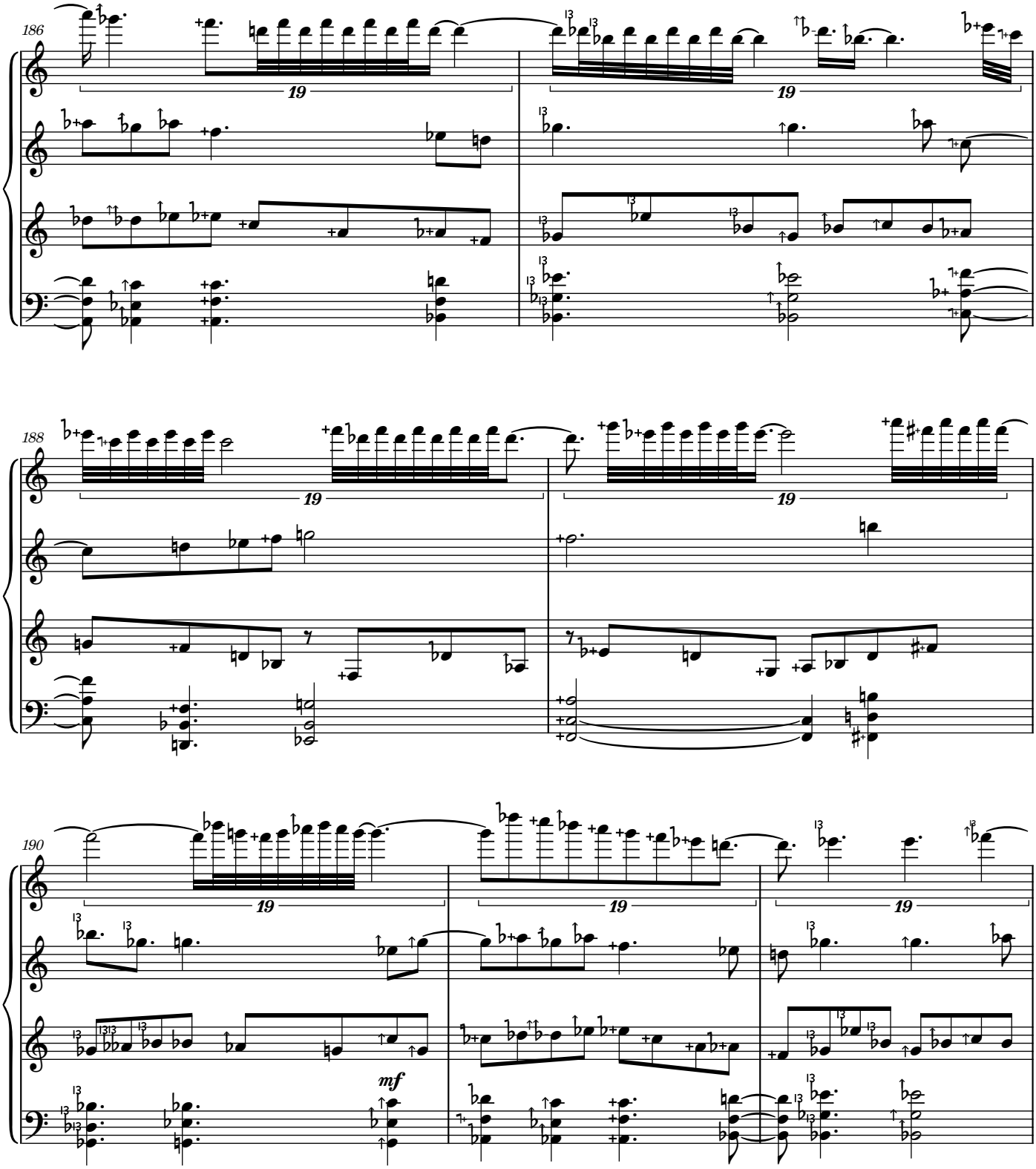

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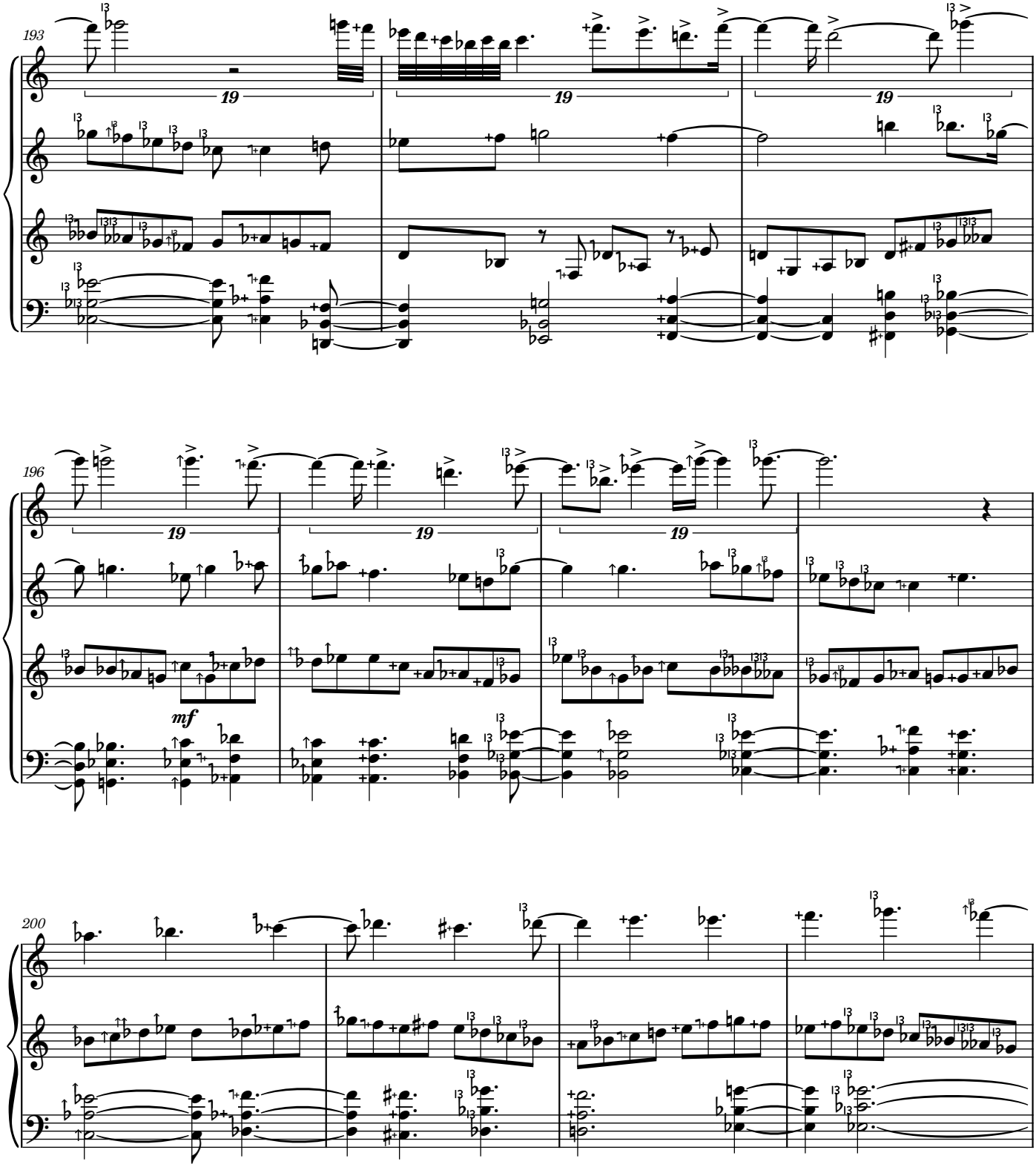

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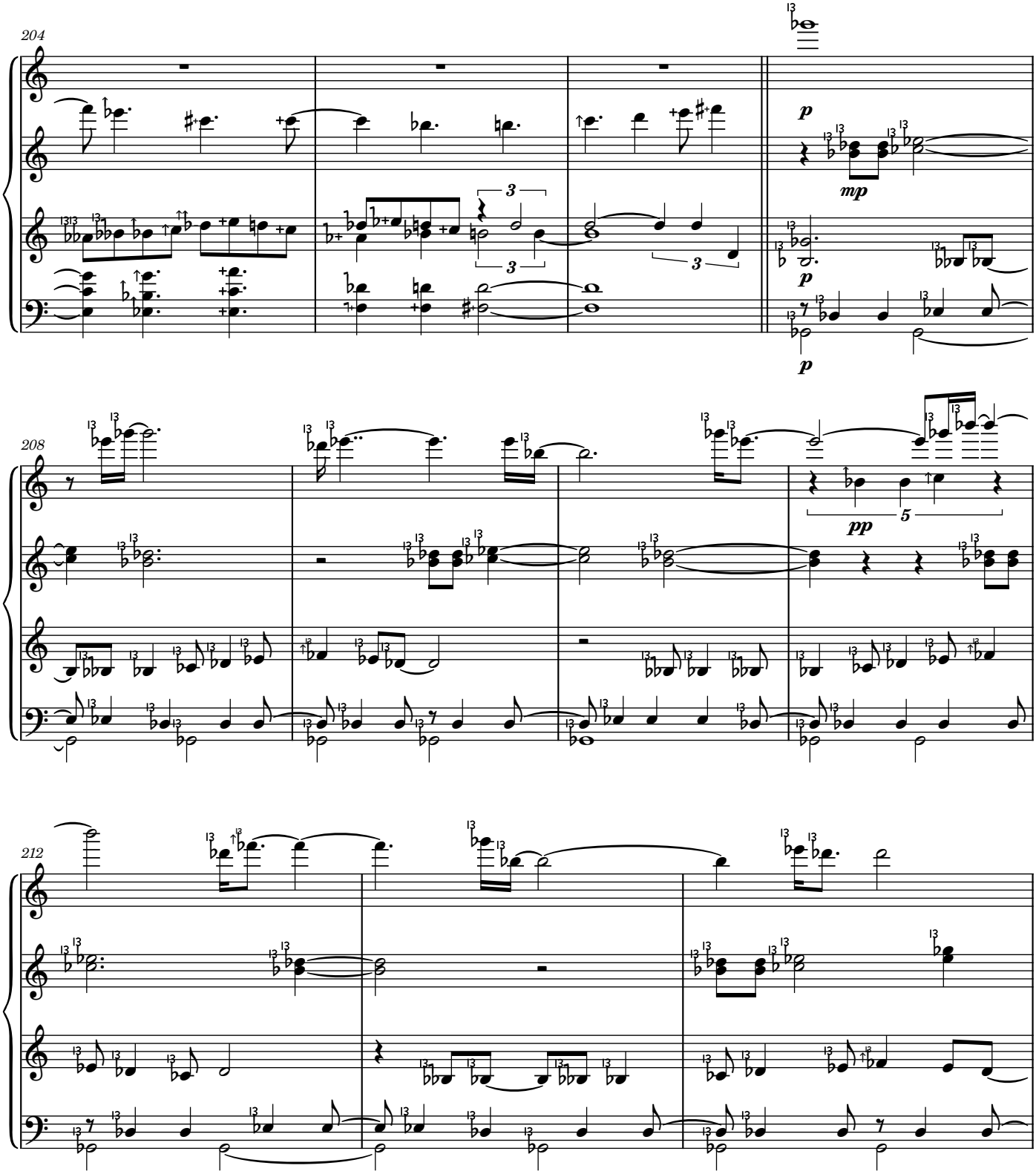

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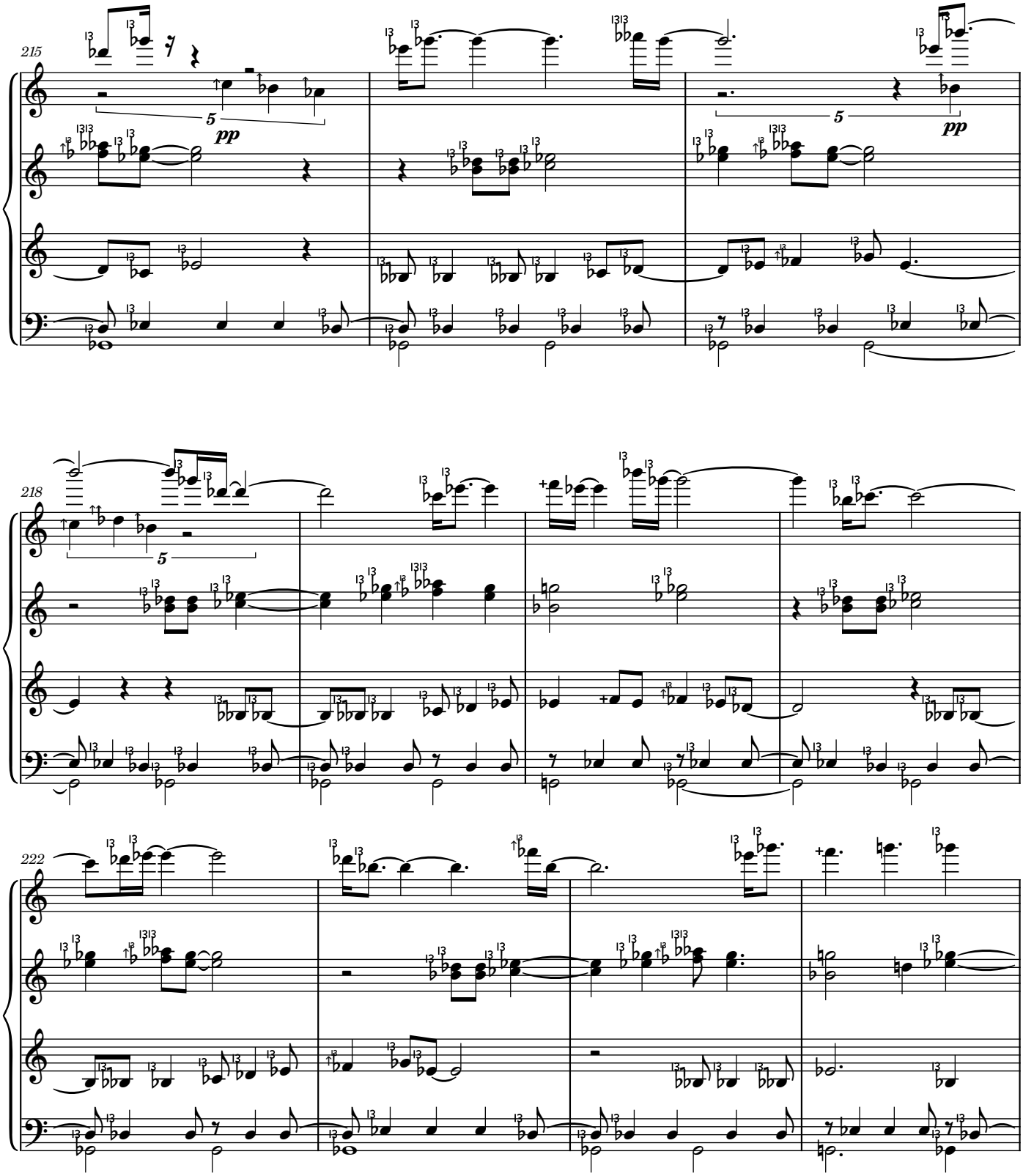

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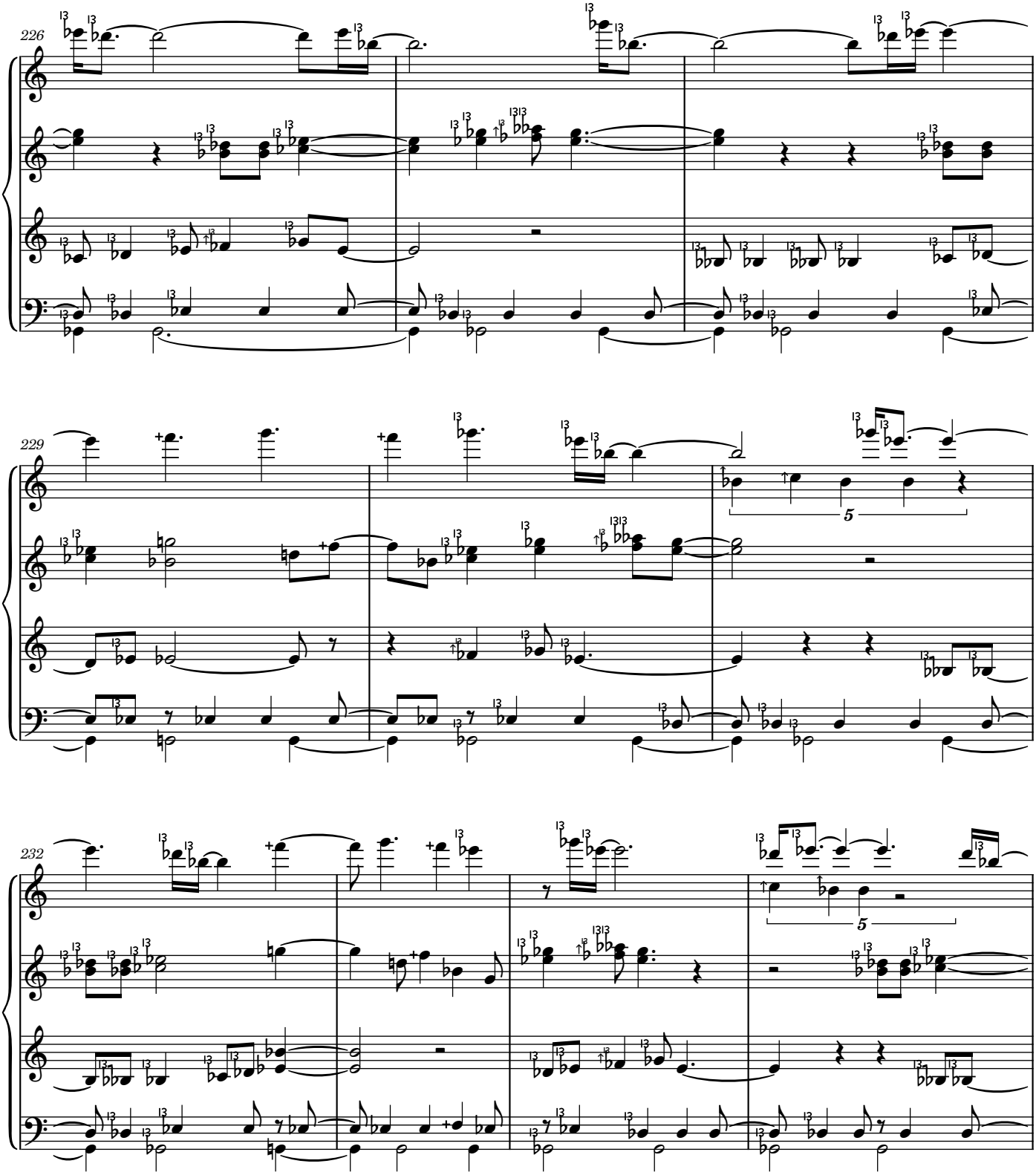

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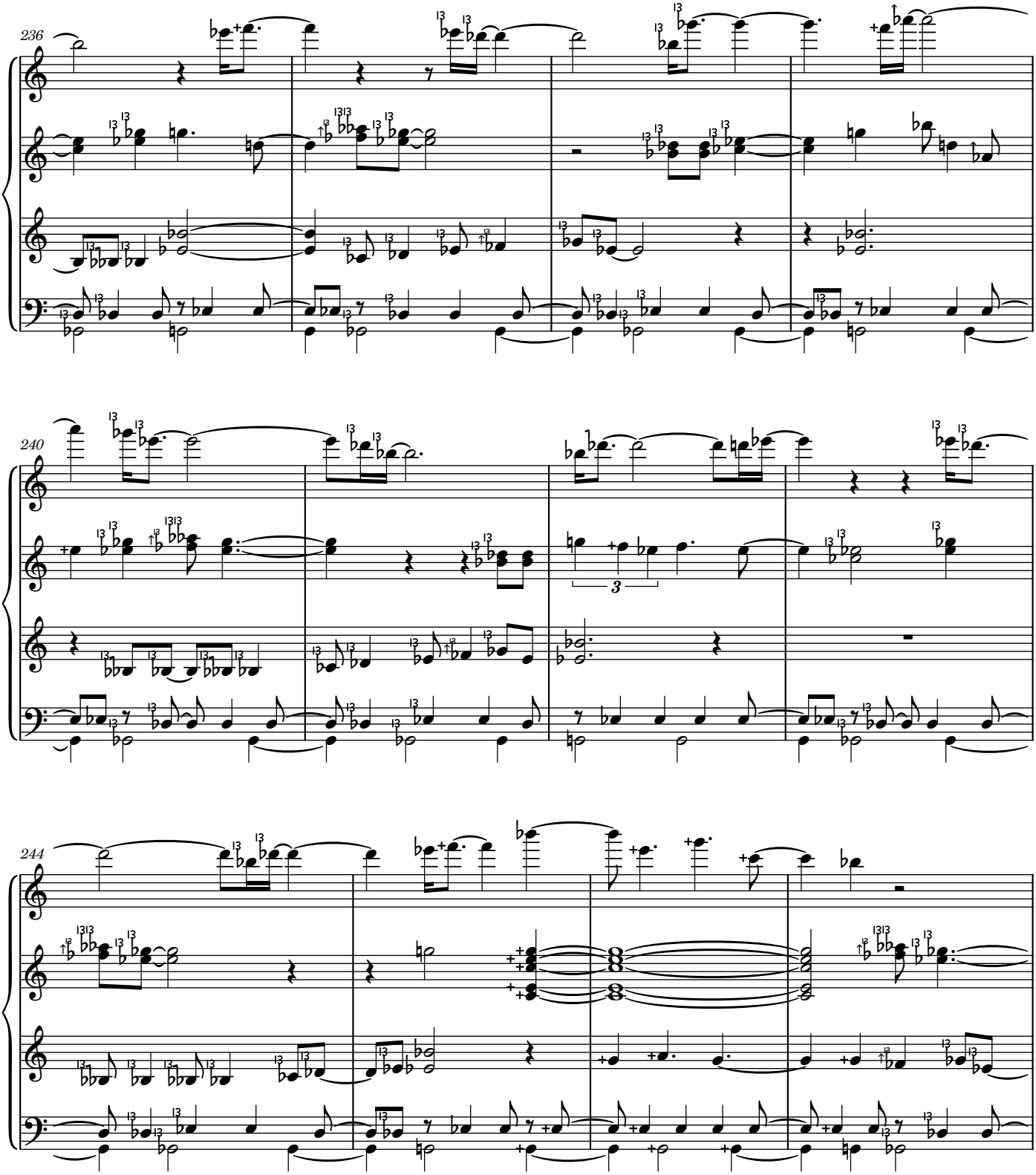

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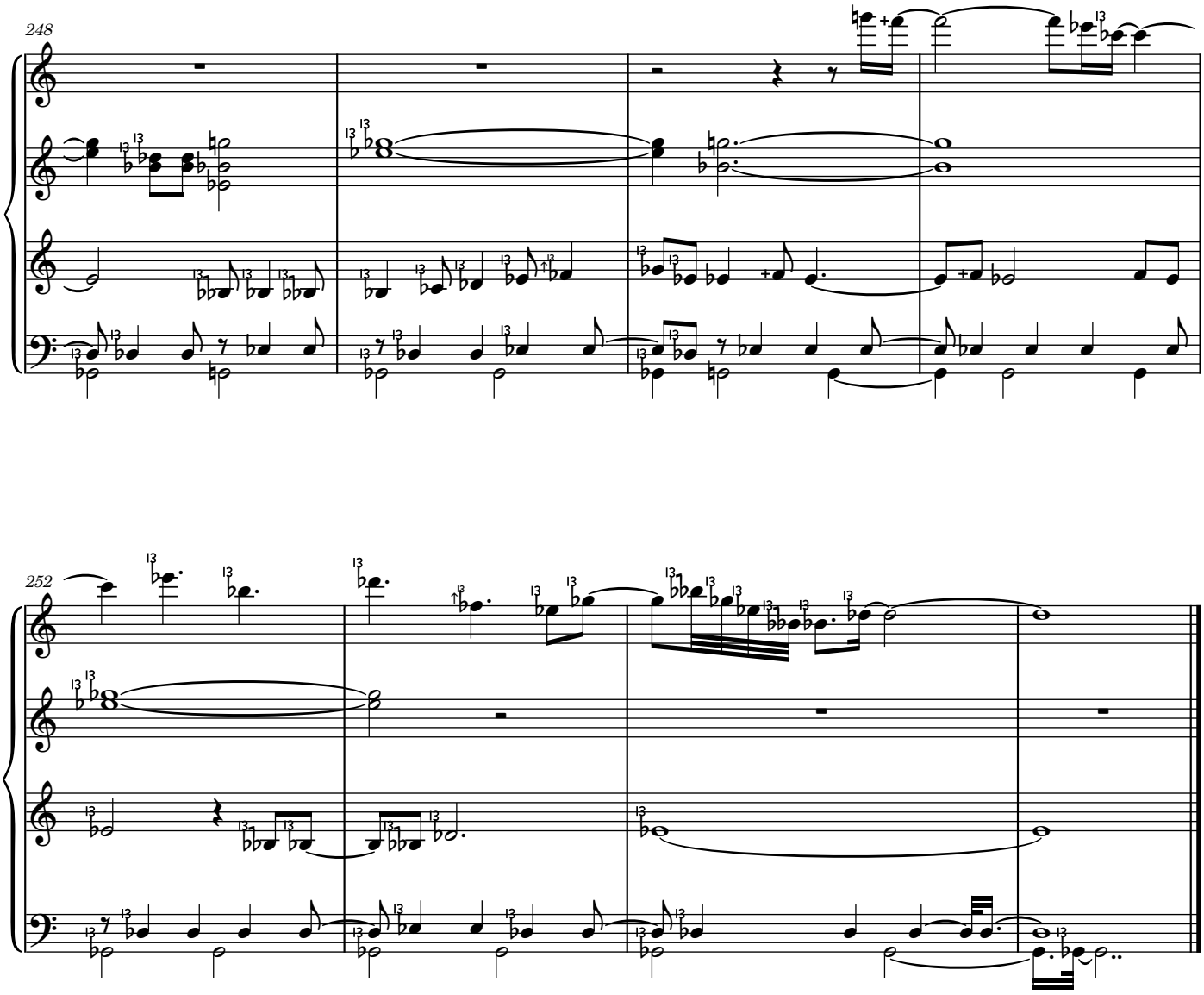

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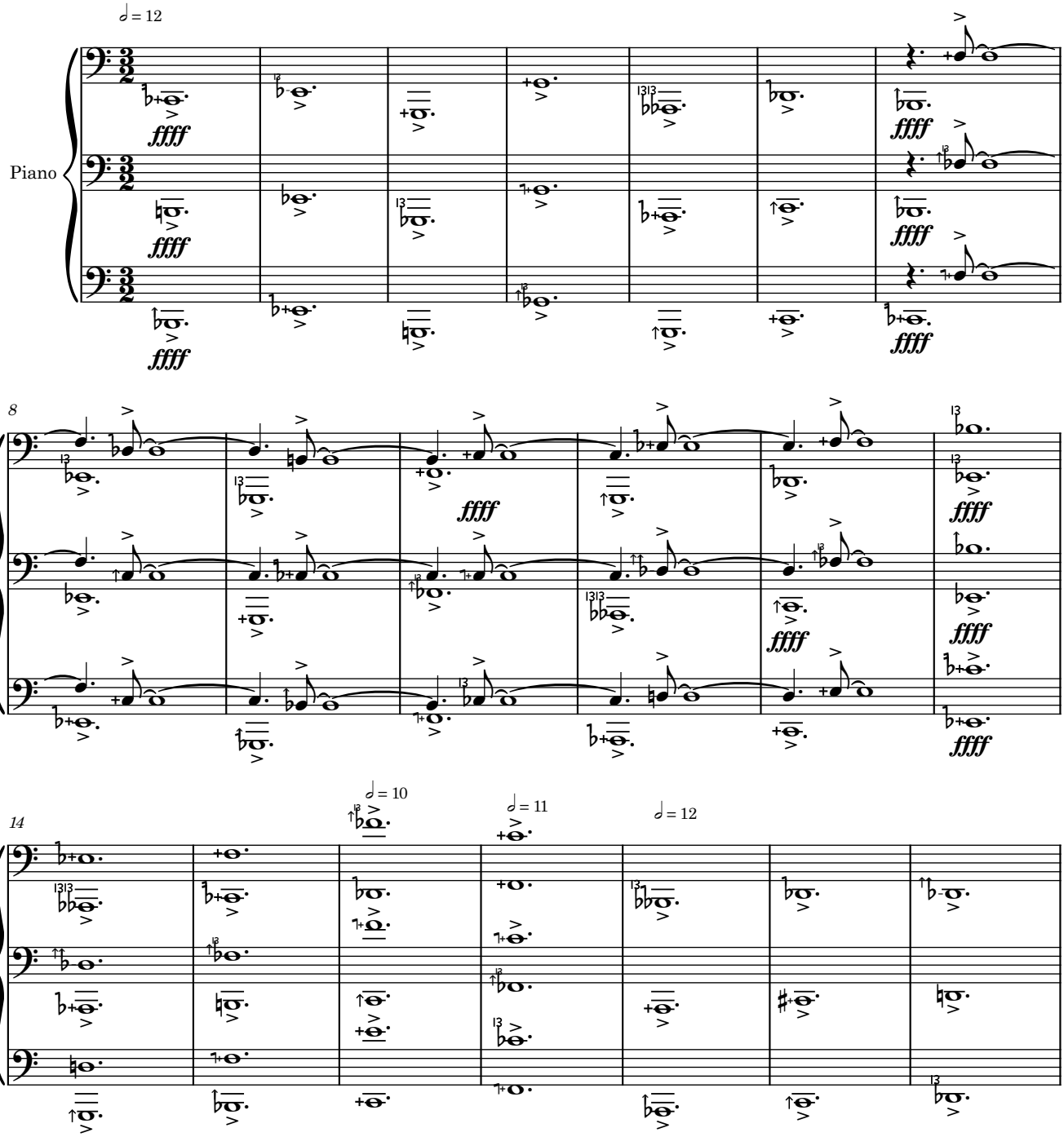

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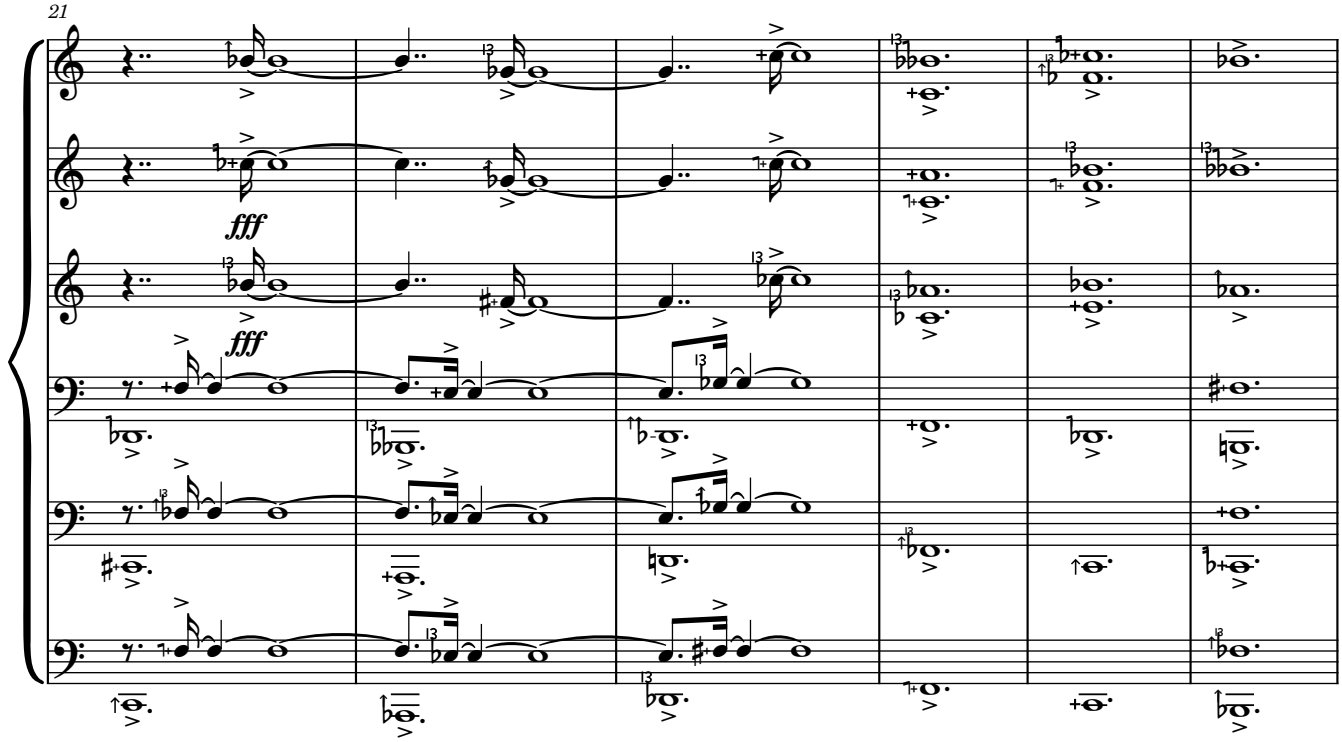
Nov. 21, 2016 - Jan. 15, 2017
Germantown, NY

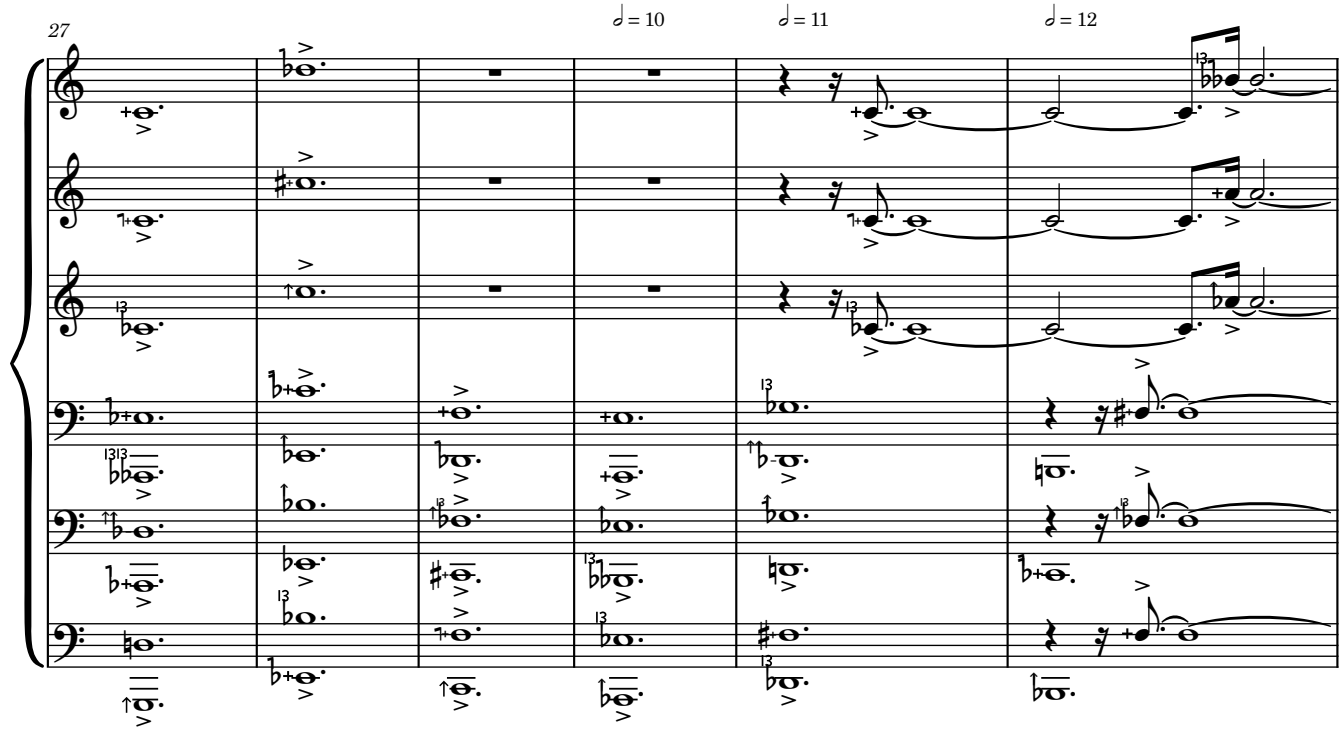
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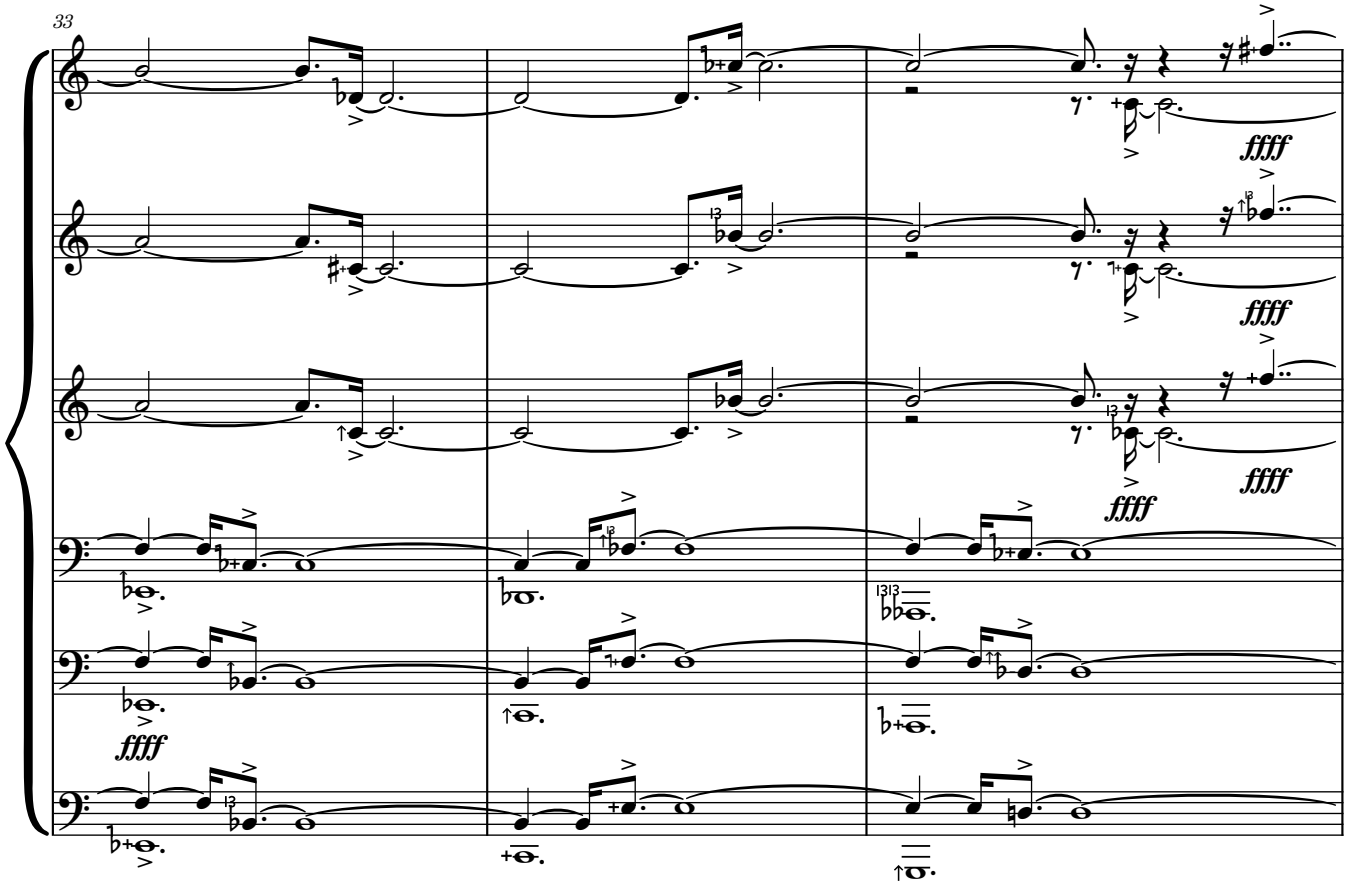
Kyle Gann
2017

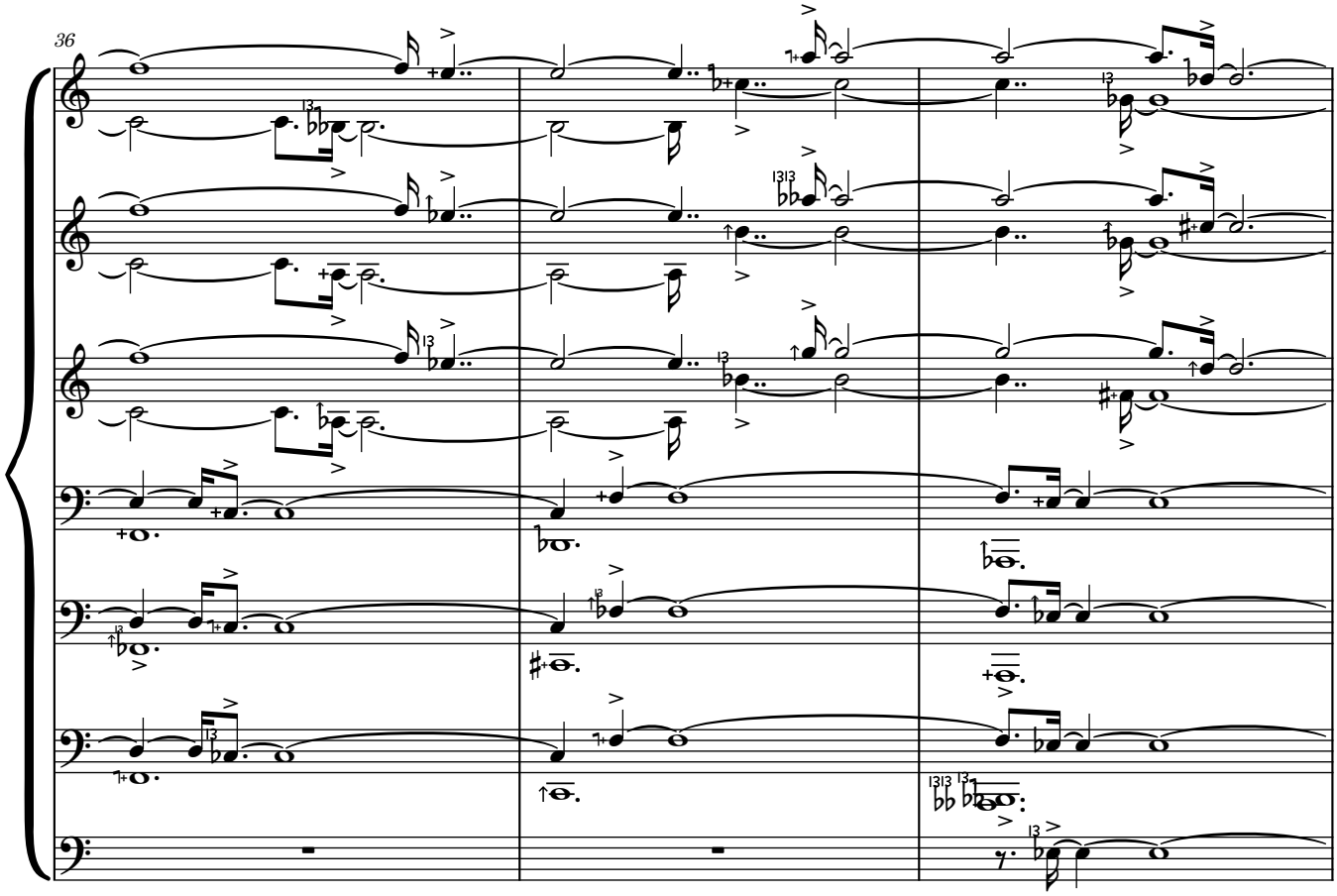


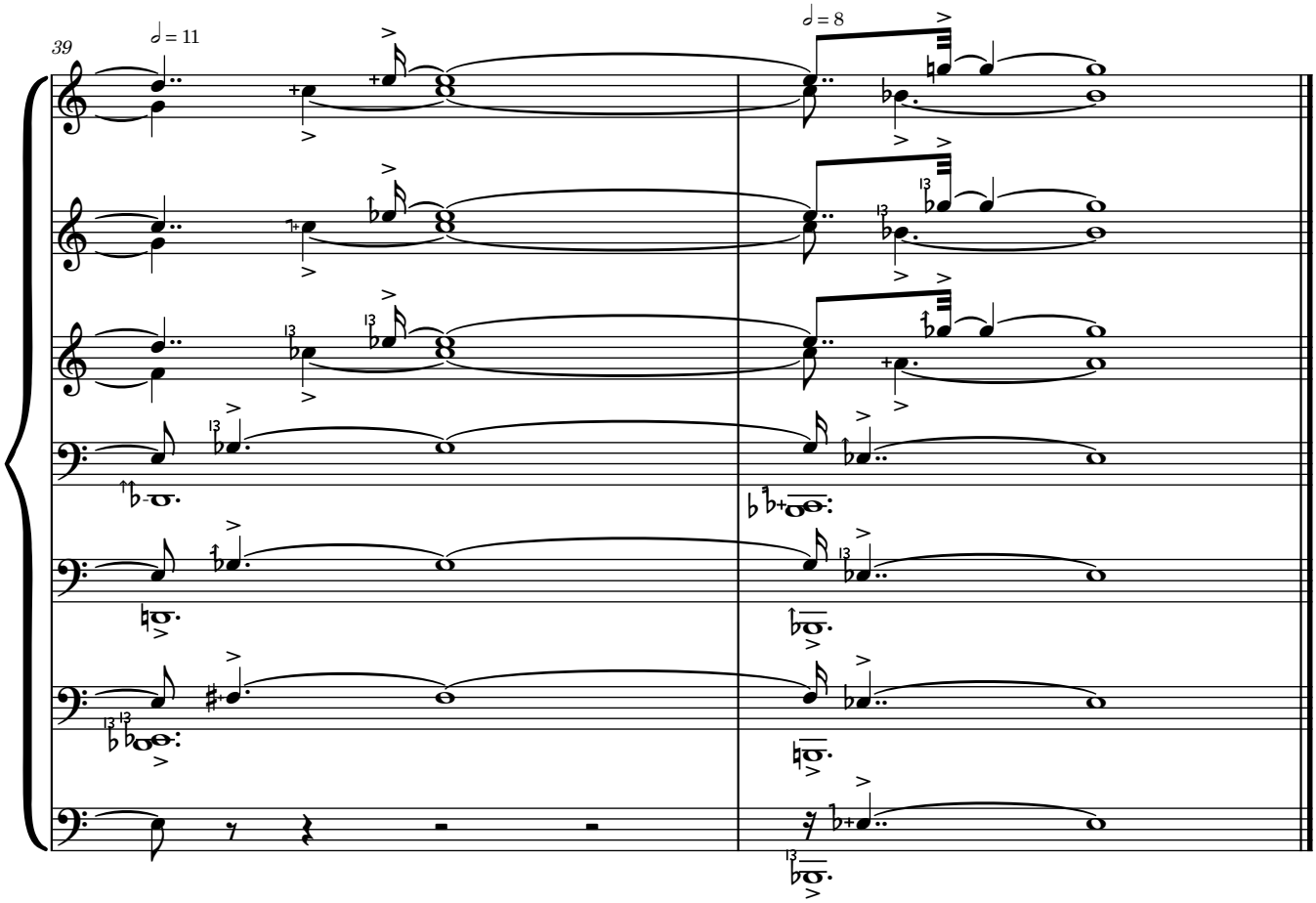
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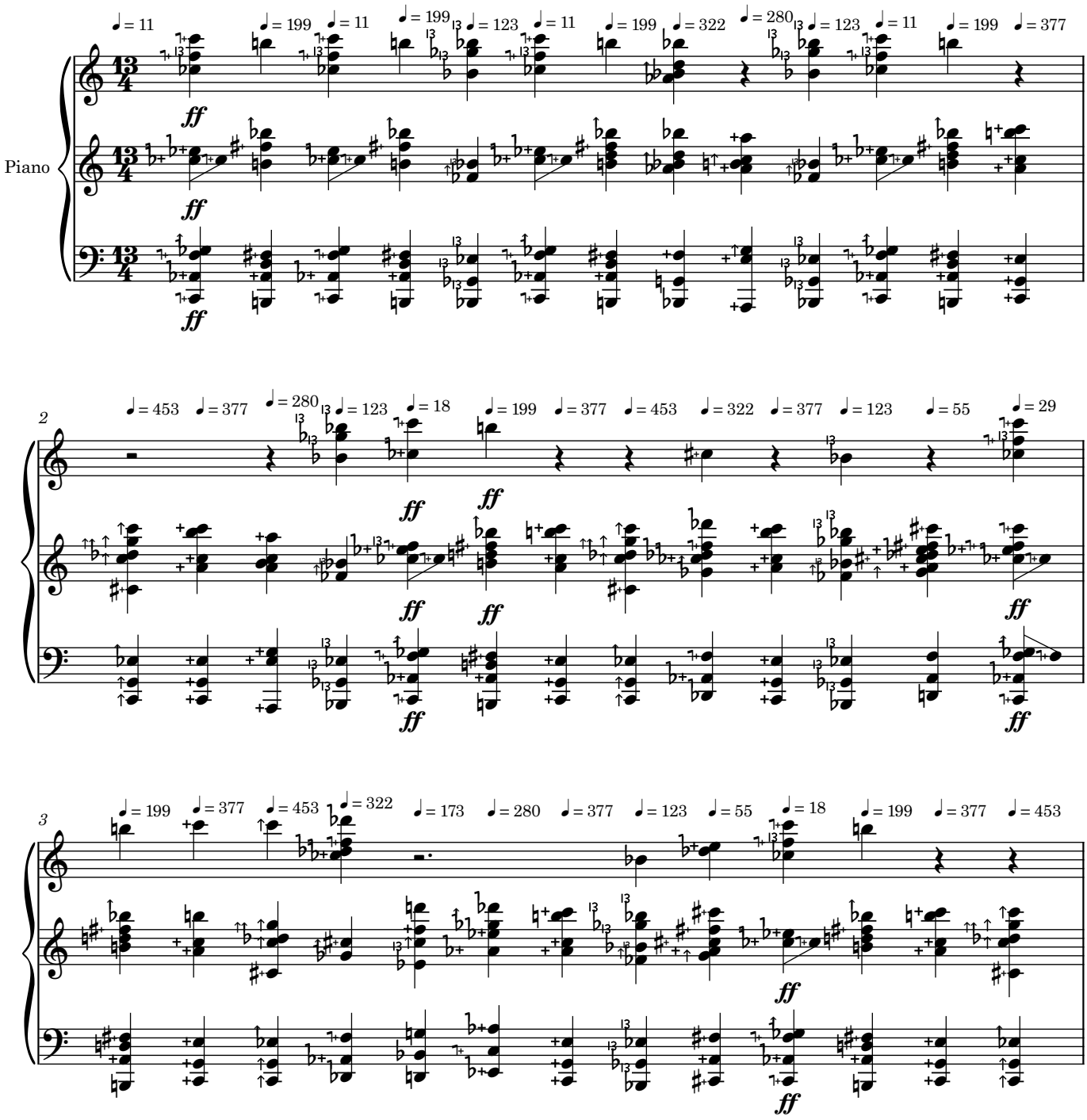

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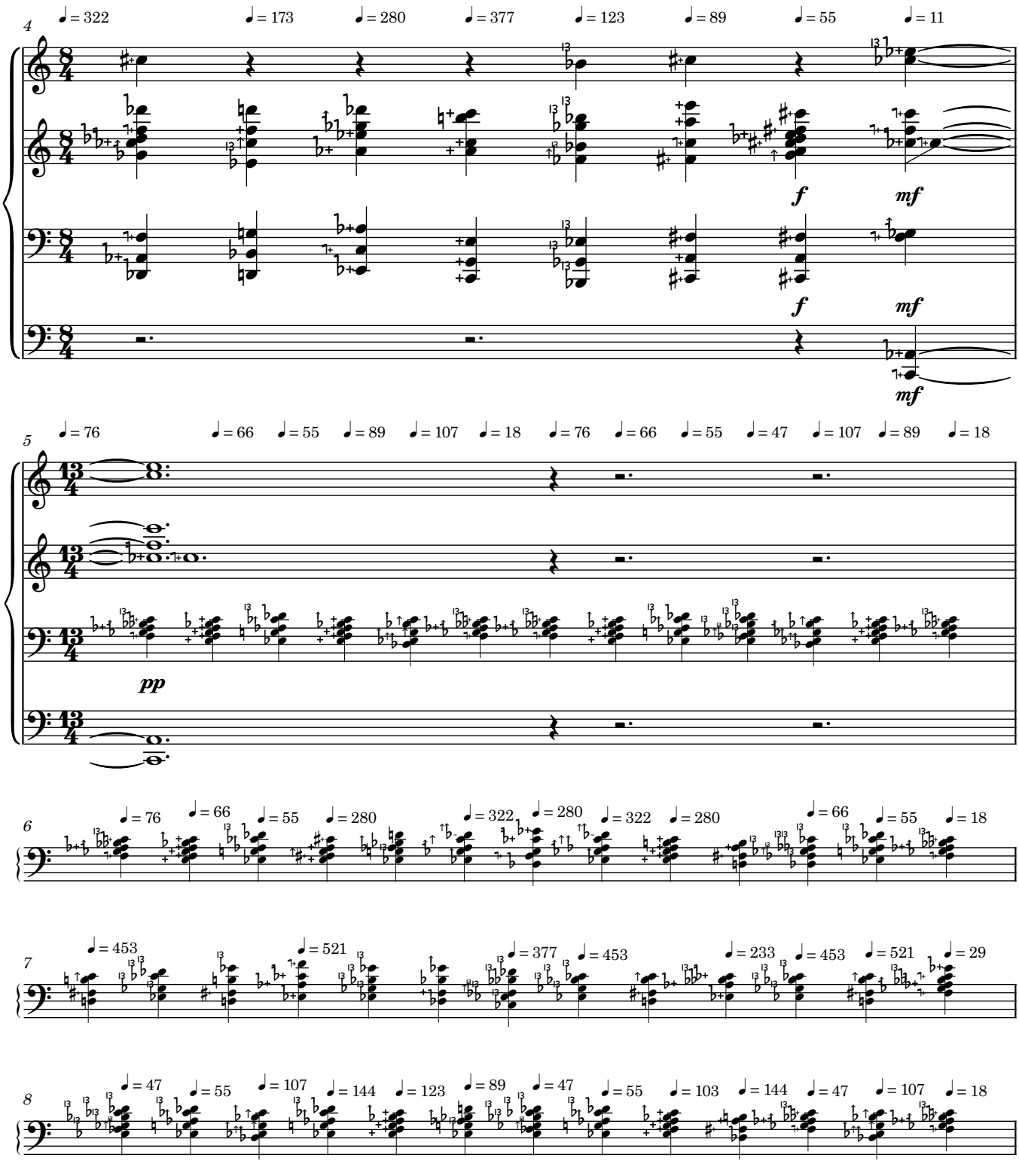


Dec. 30, 2016 - Jan. 16, 2017
Revised Mar. 1, 2021
Germantown, NY
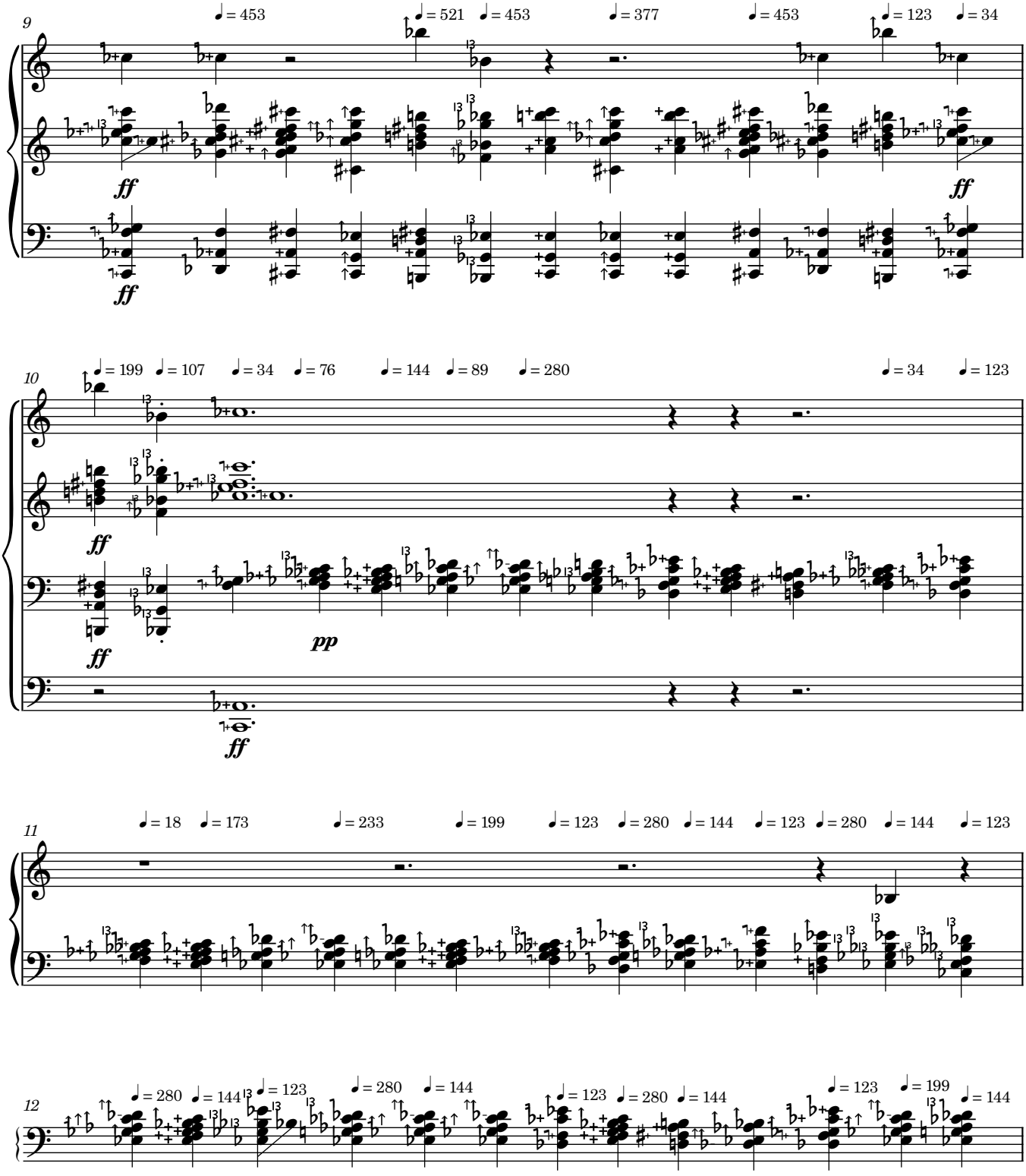
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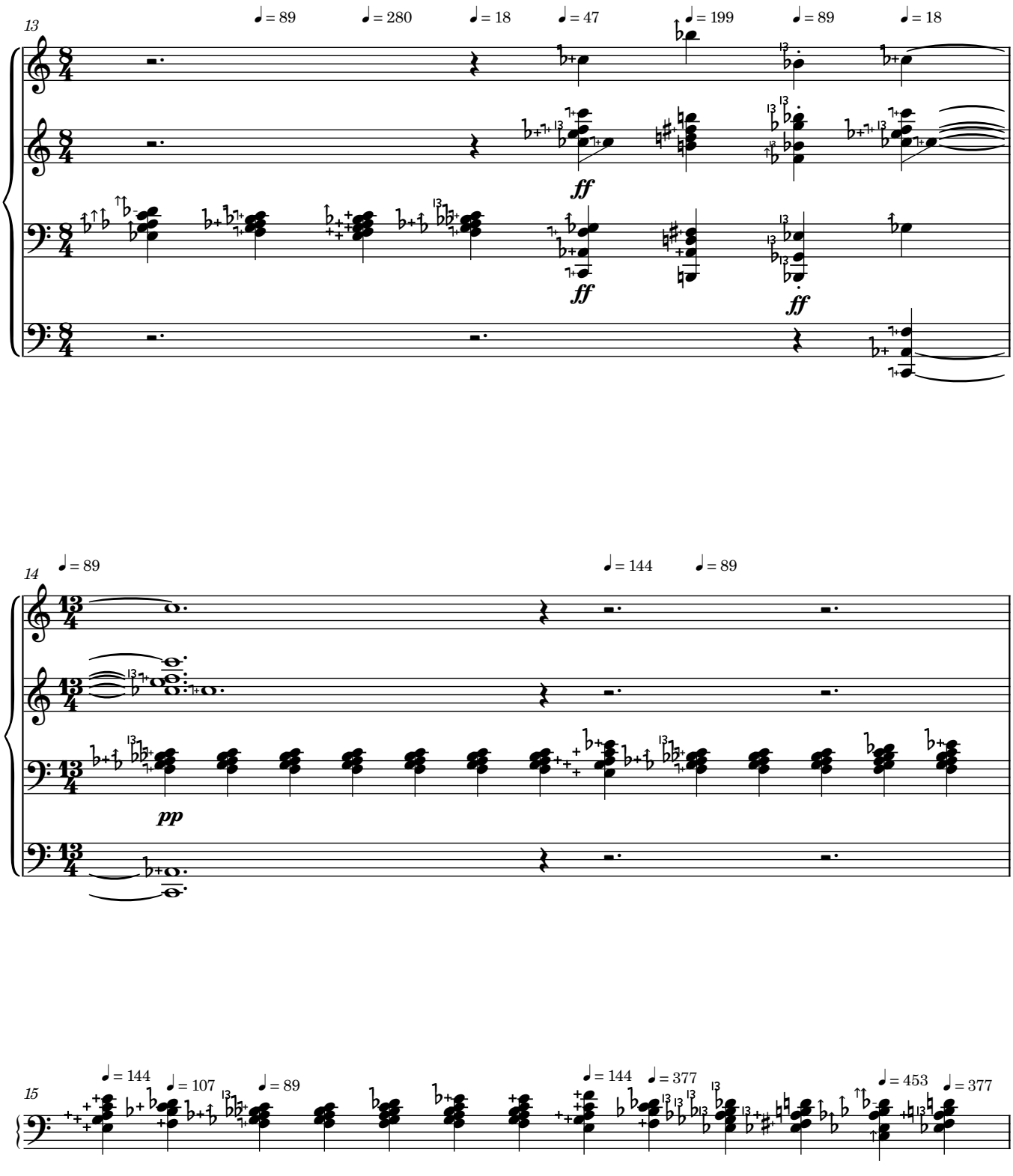
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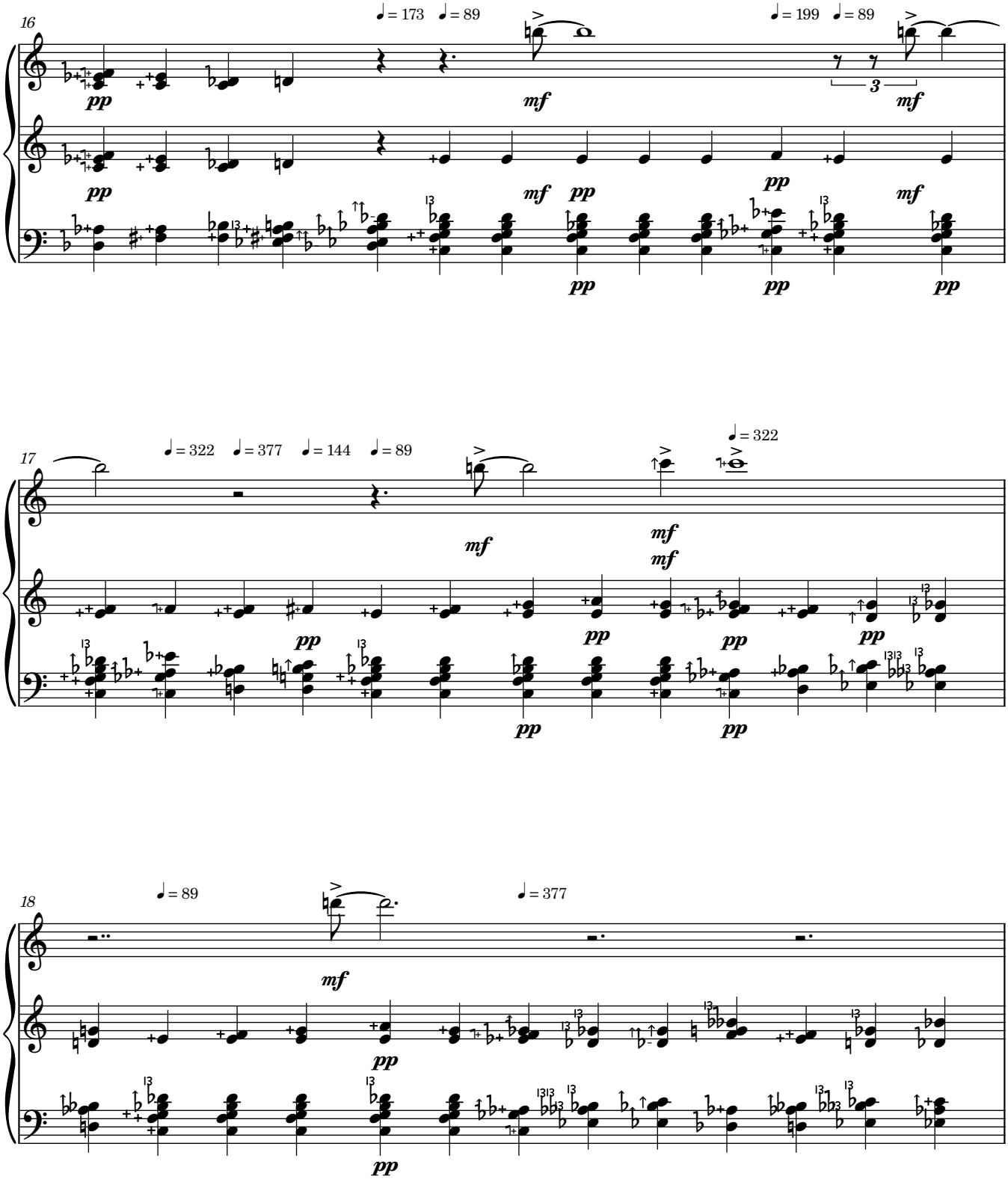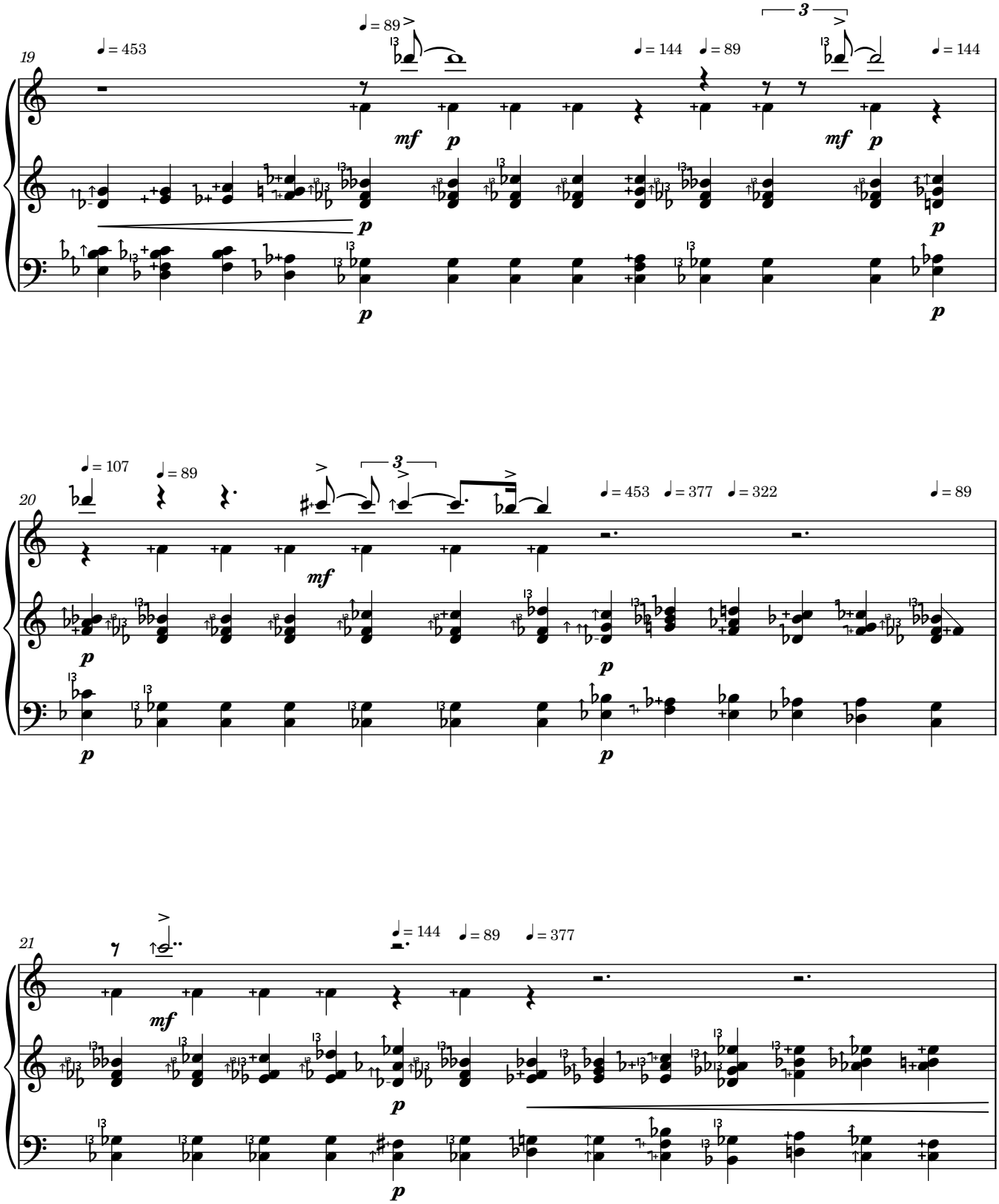


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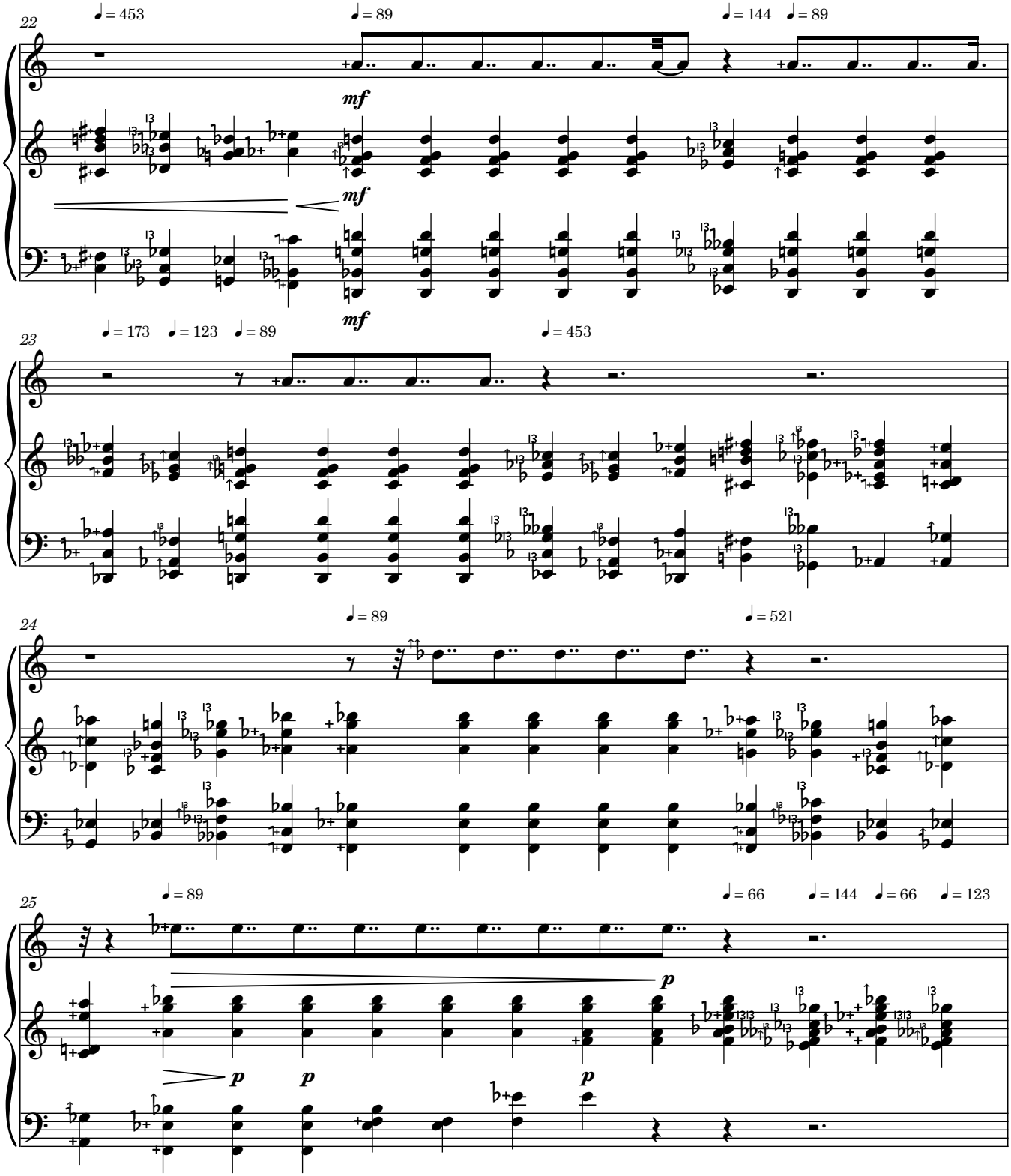

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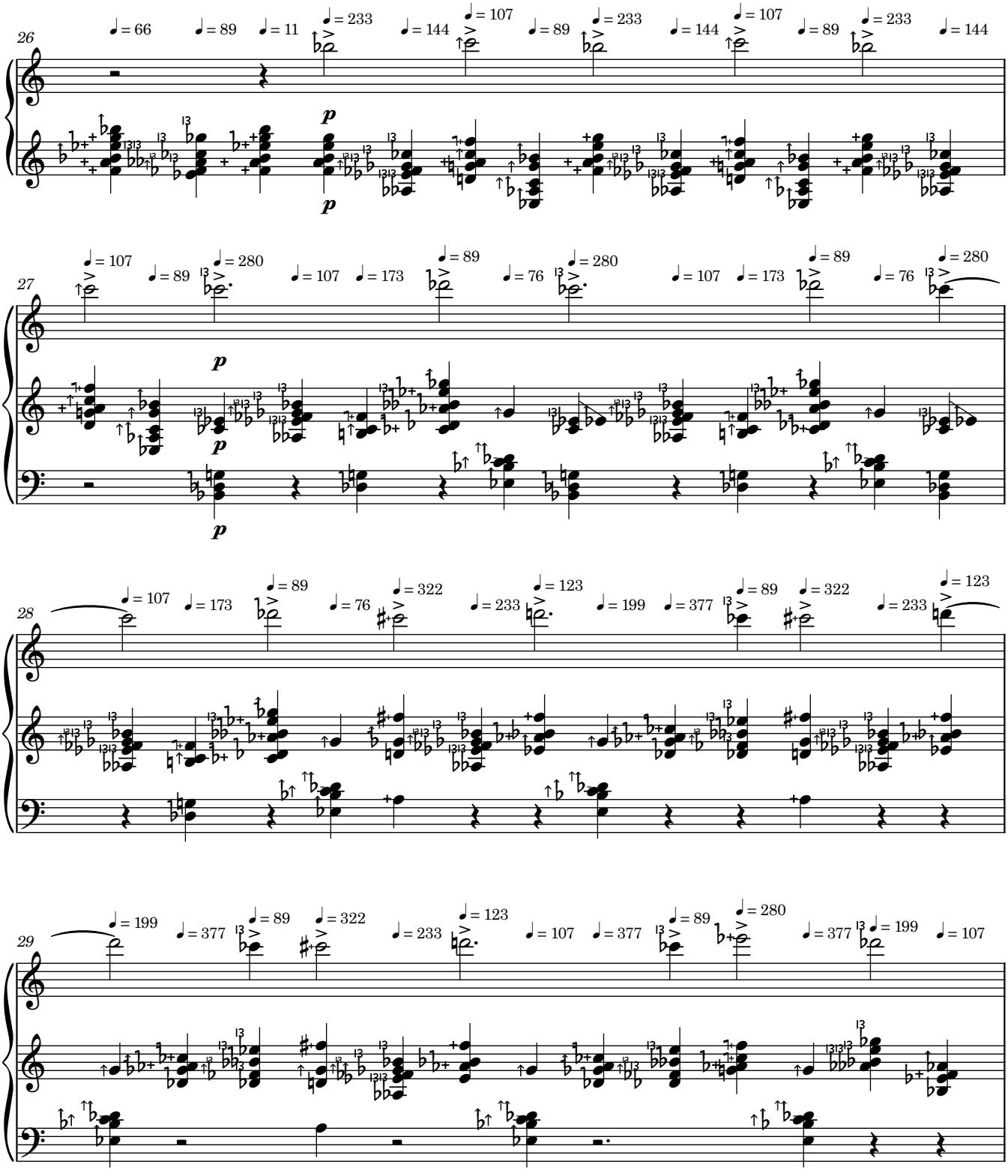

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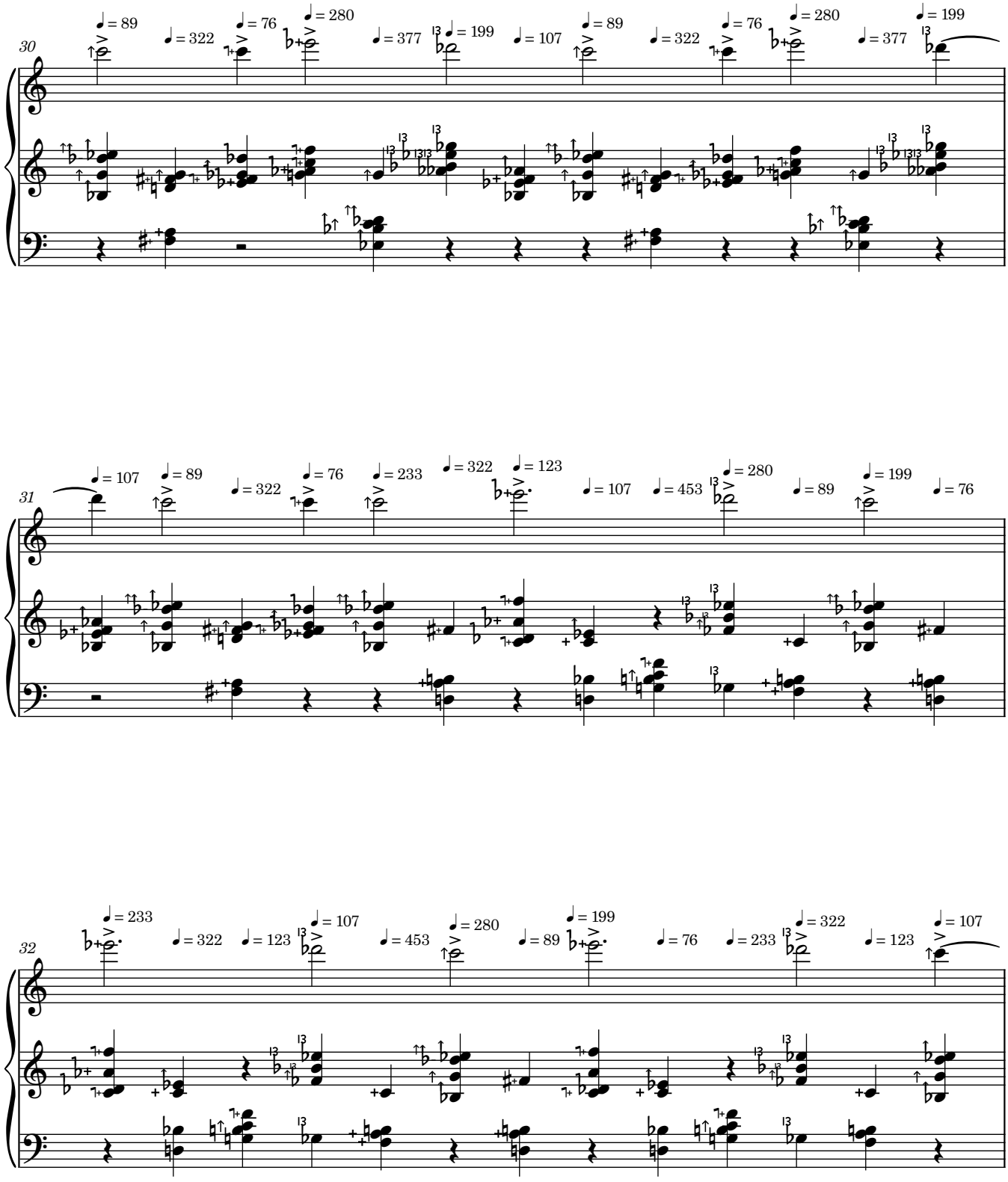

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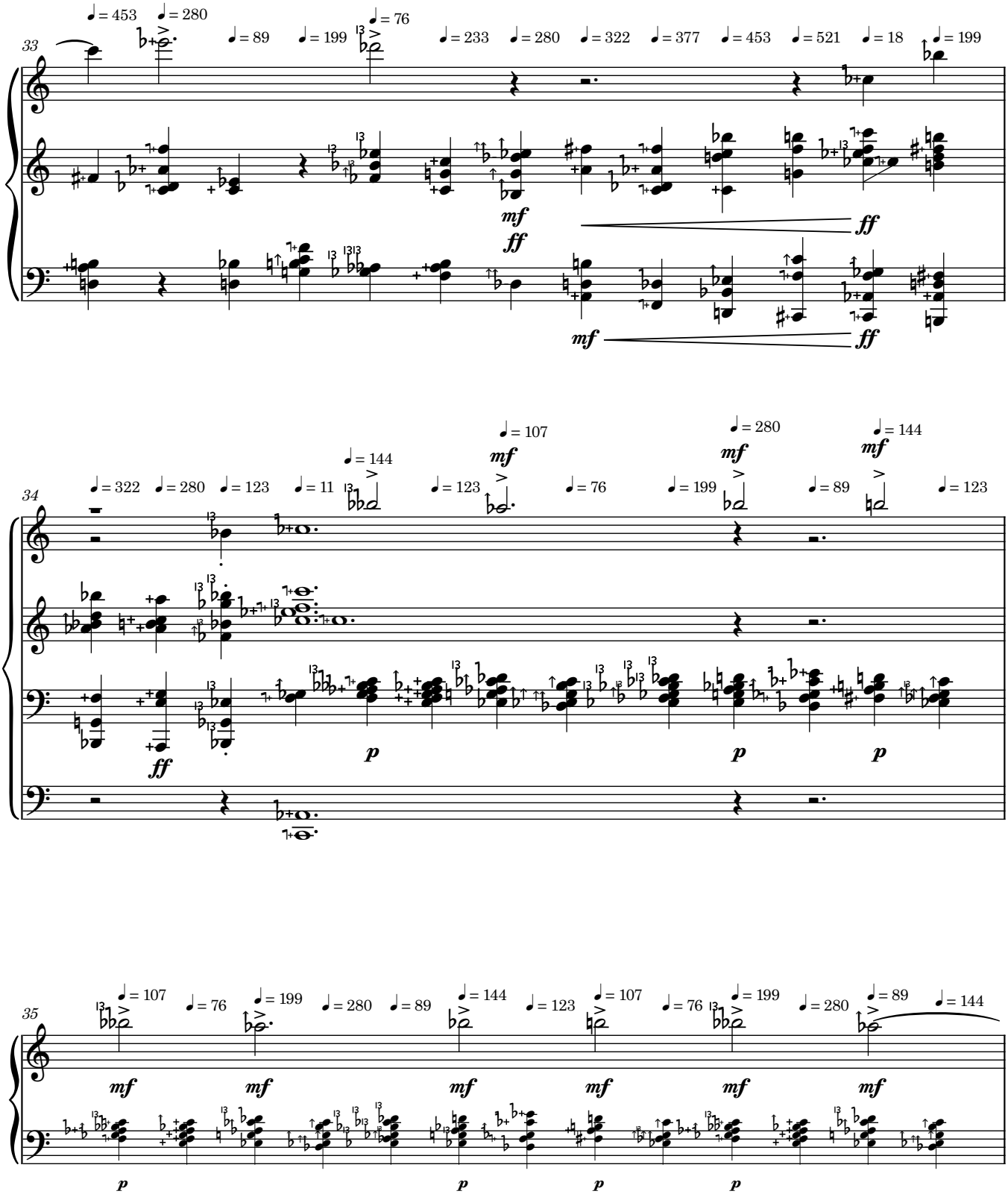

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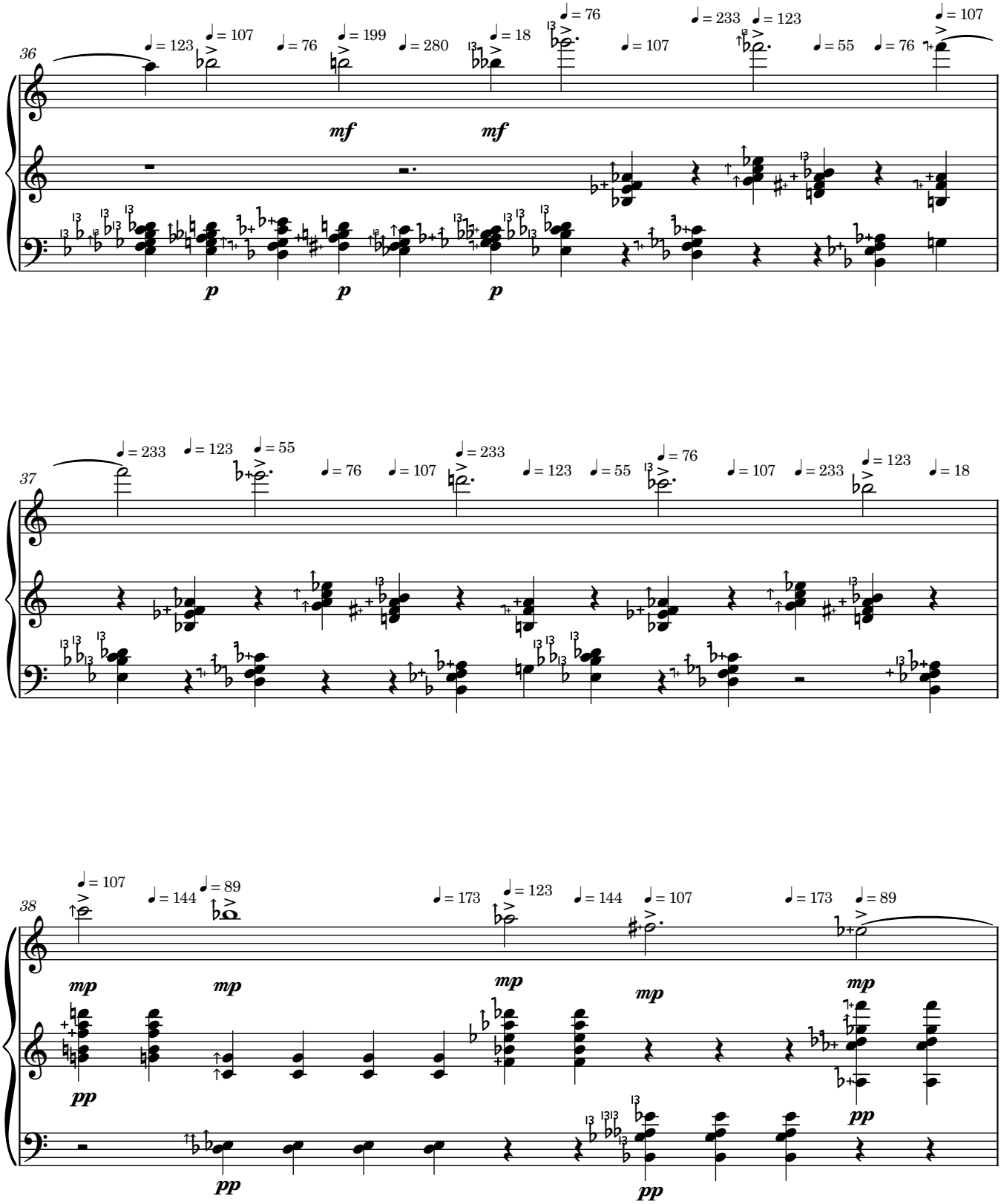

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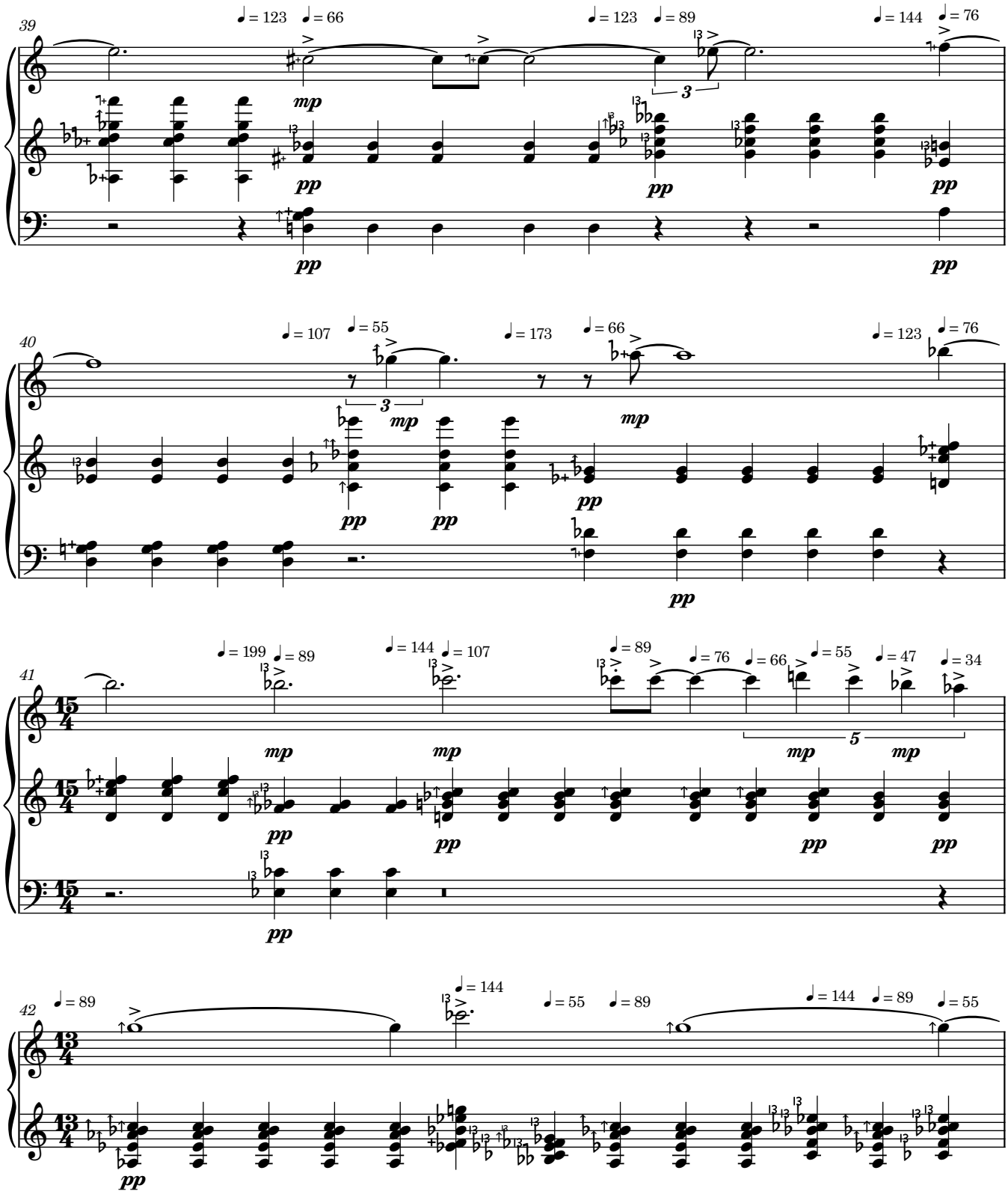

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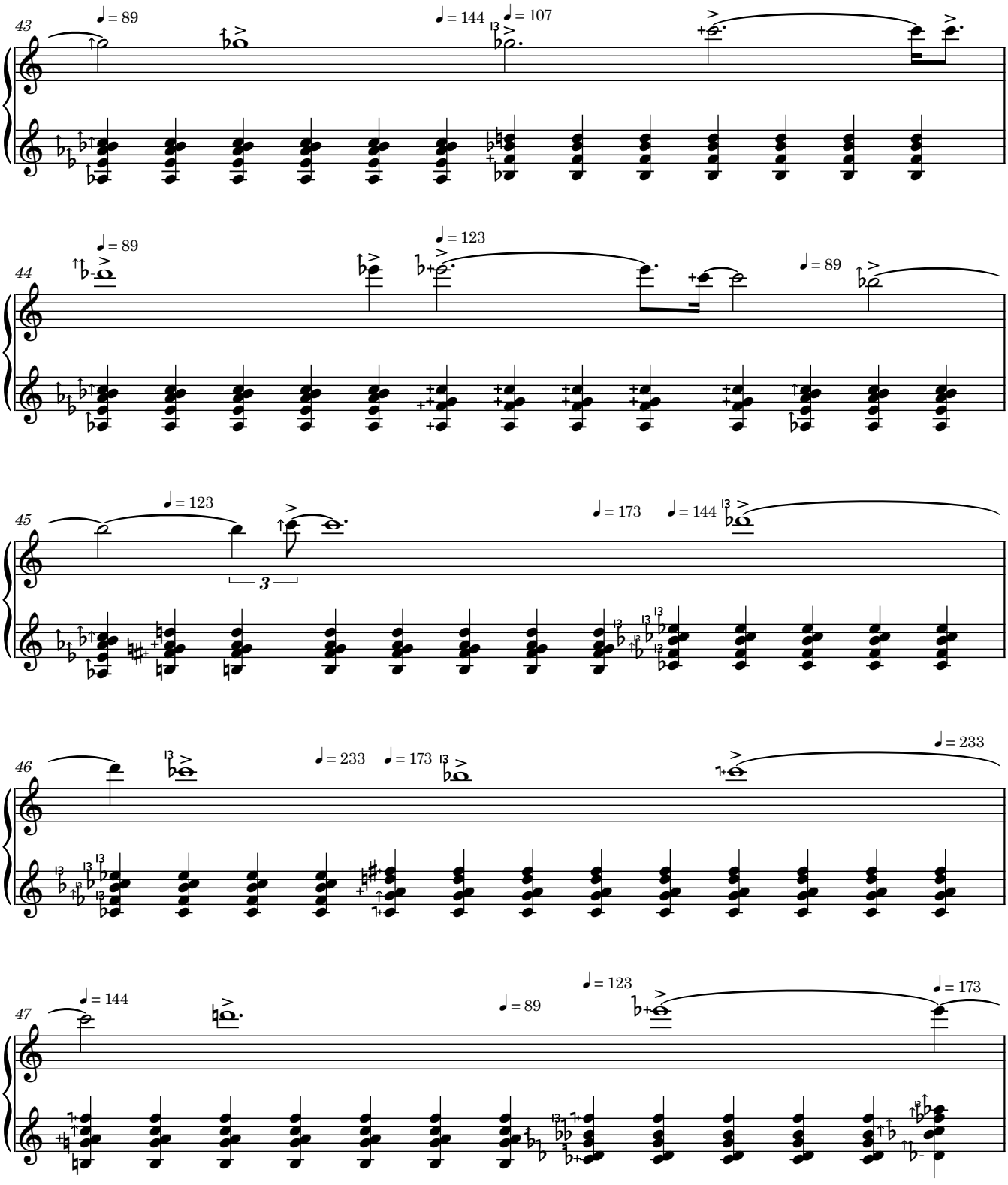

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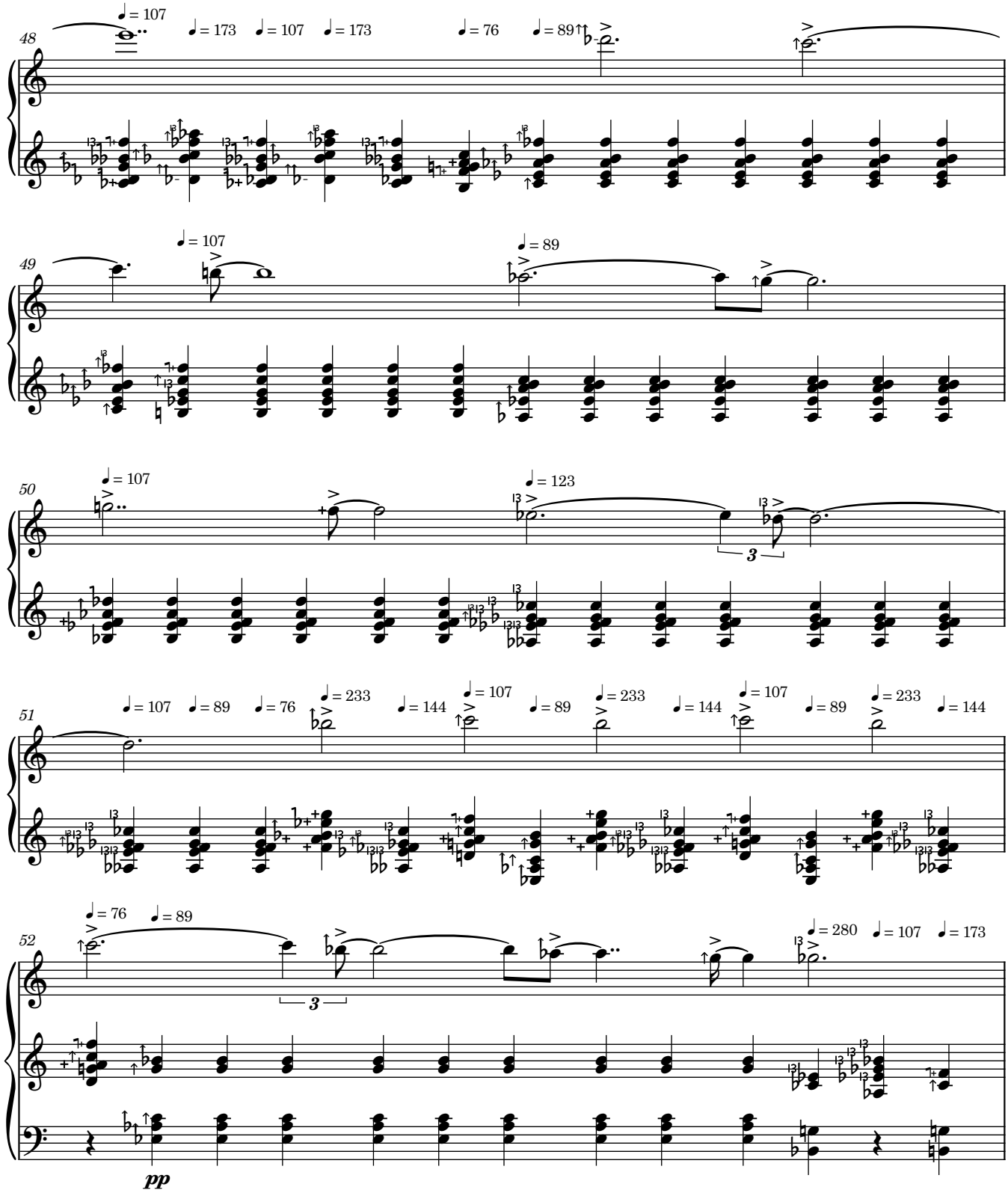

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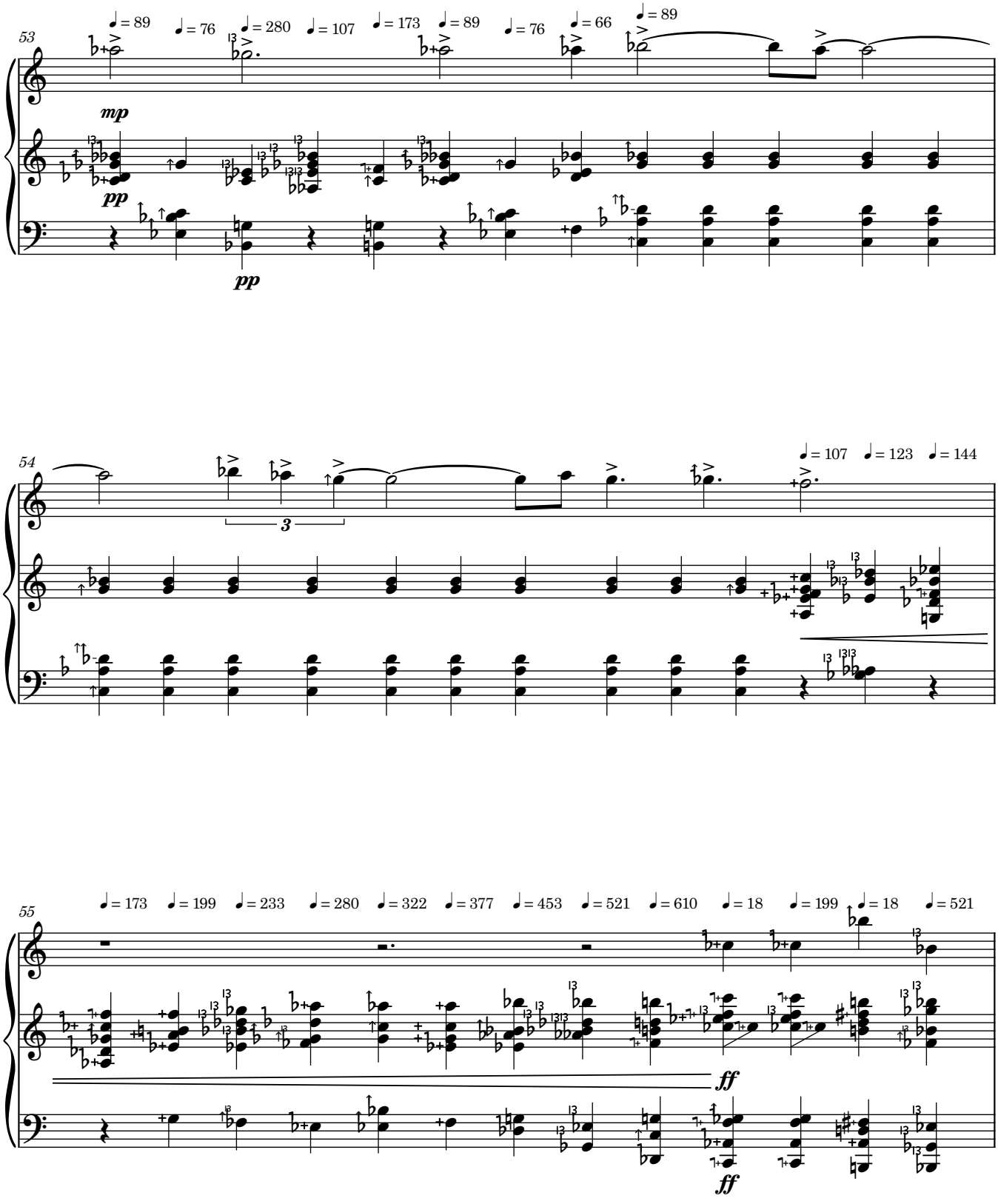

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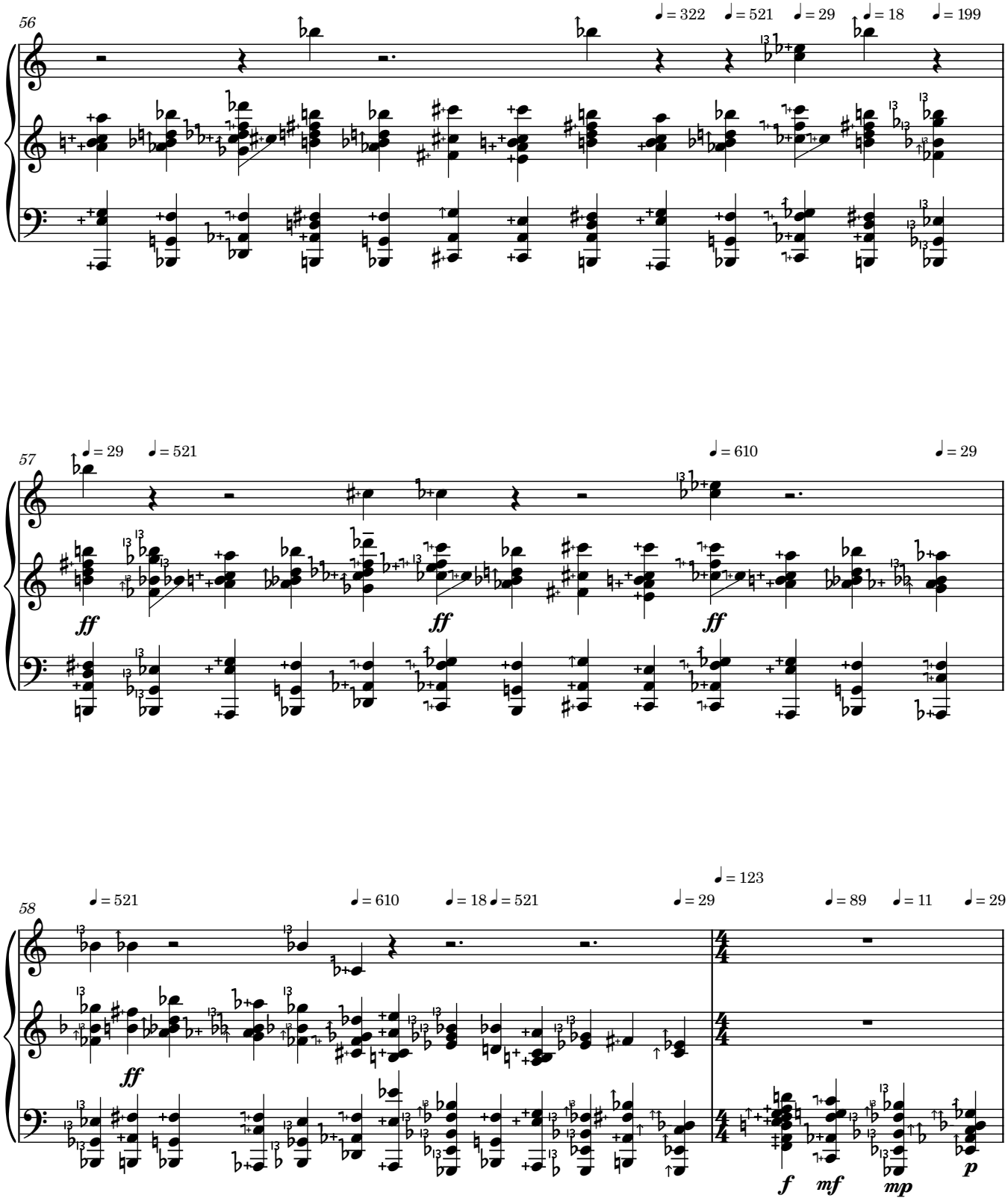

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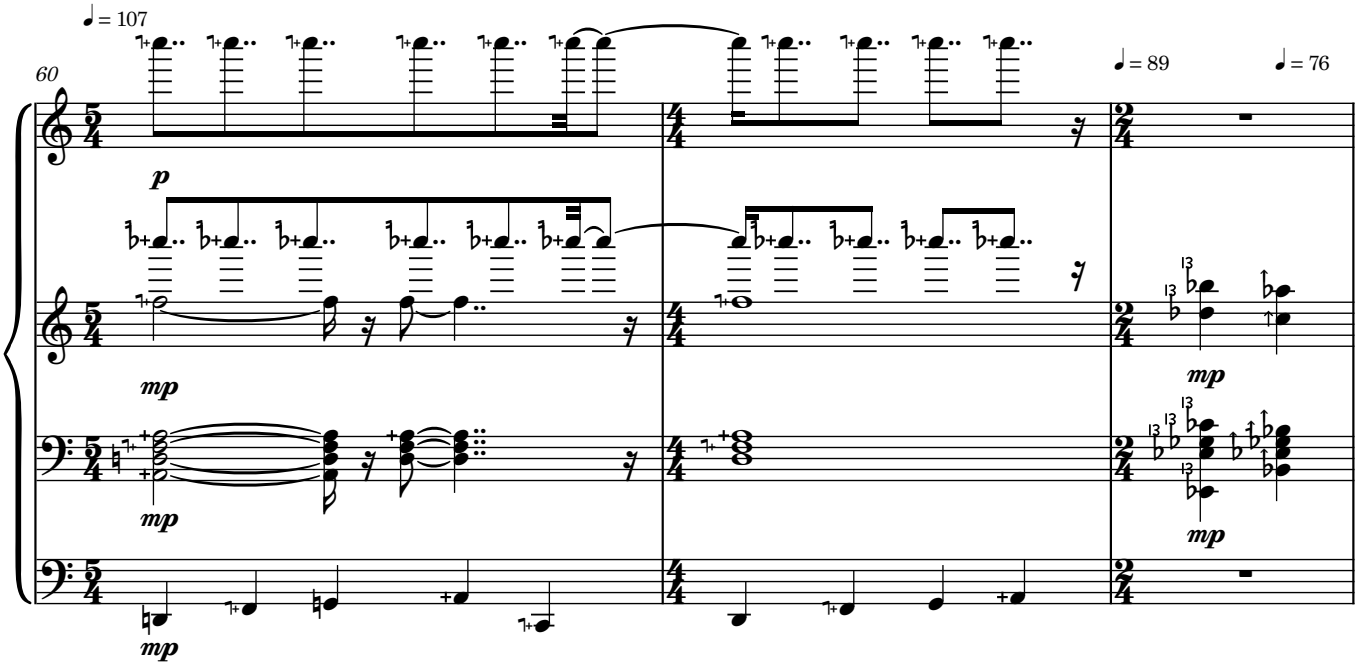

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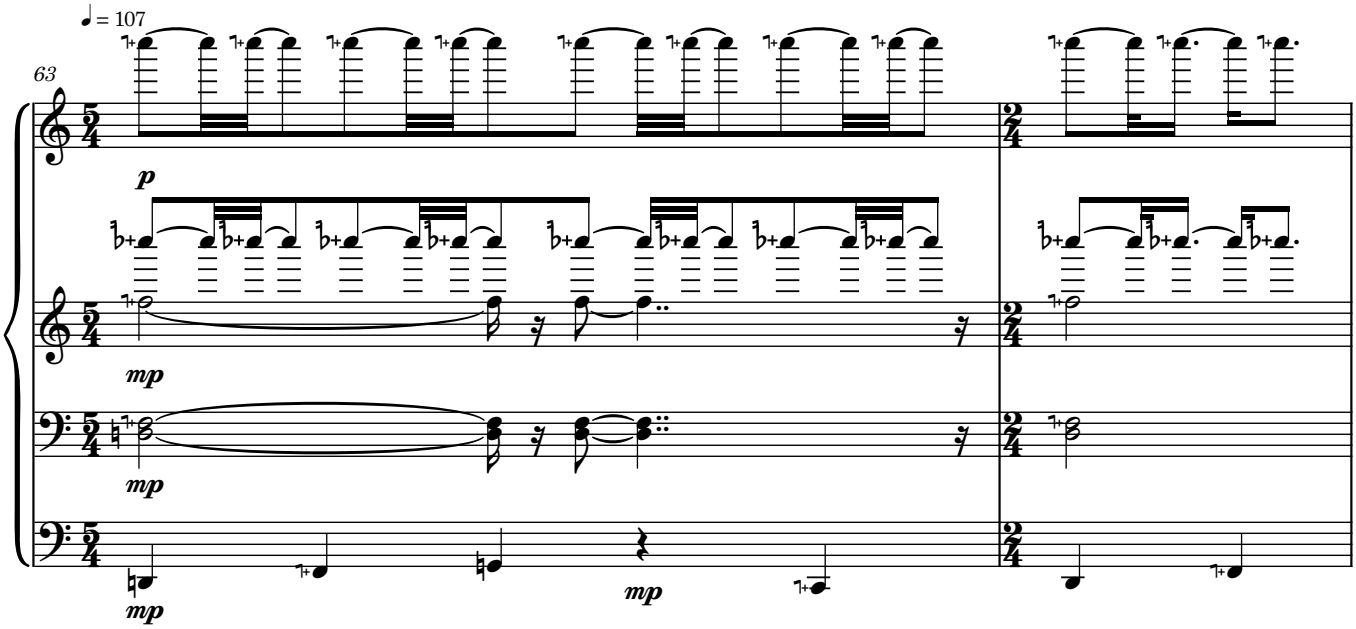

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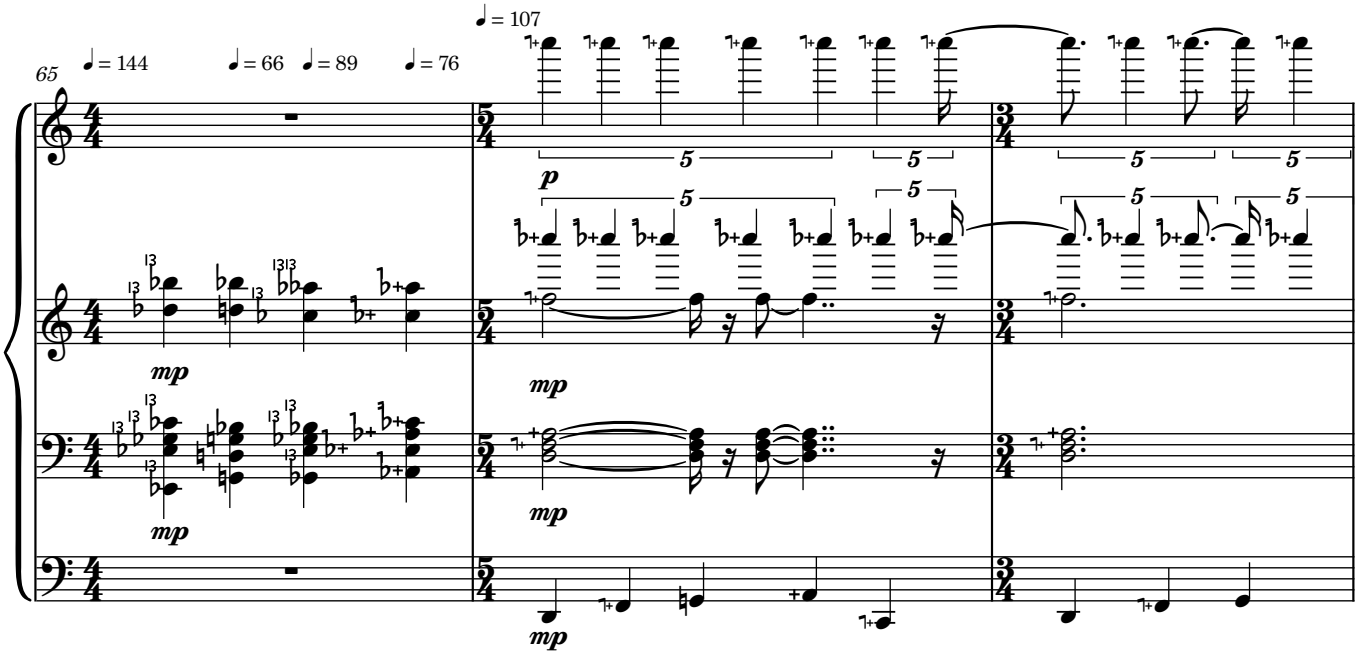

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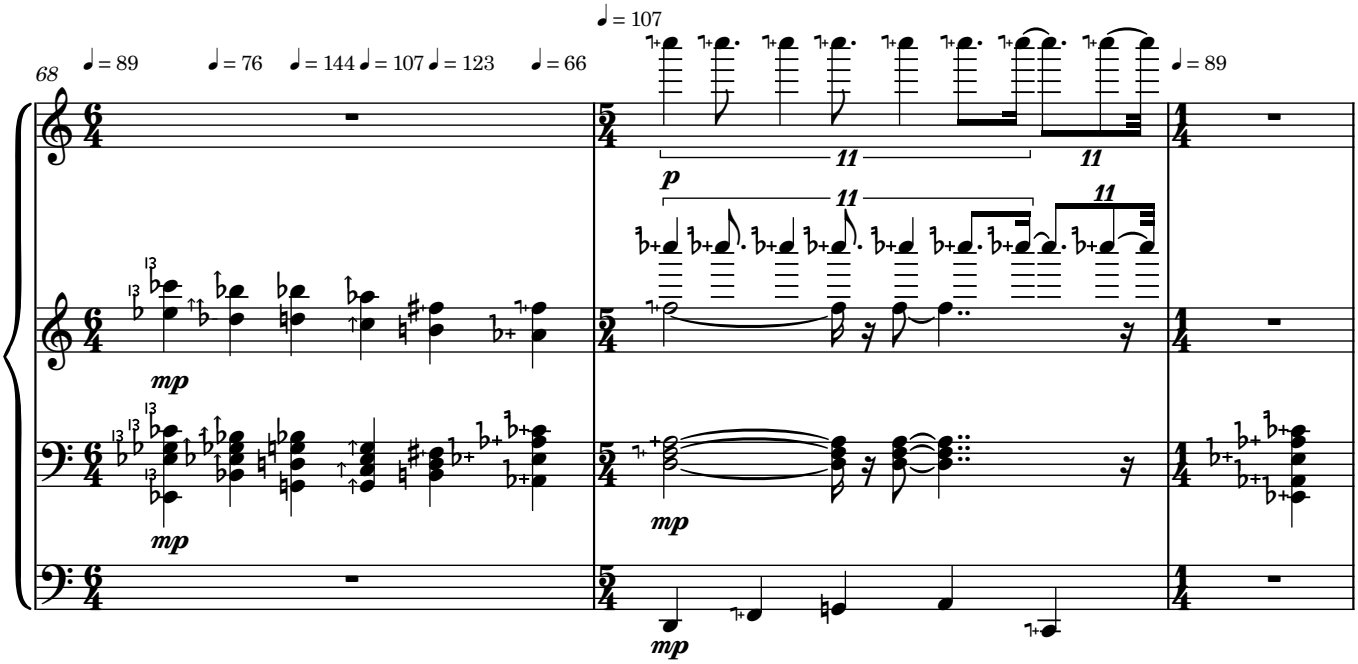

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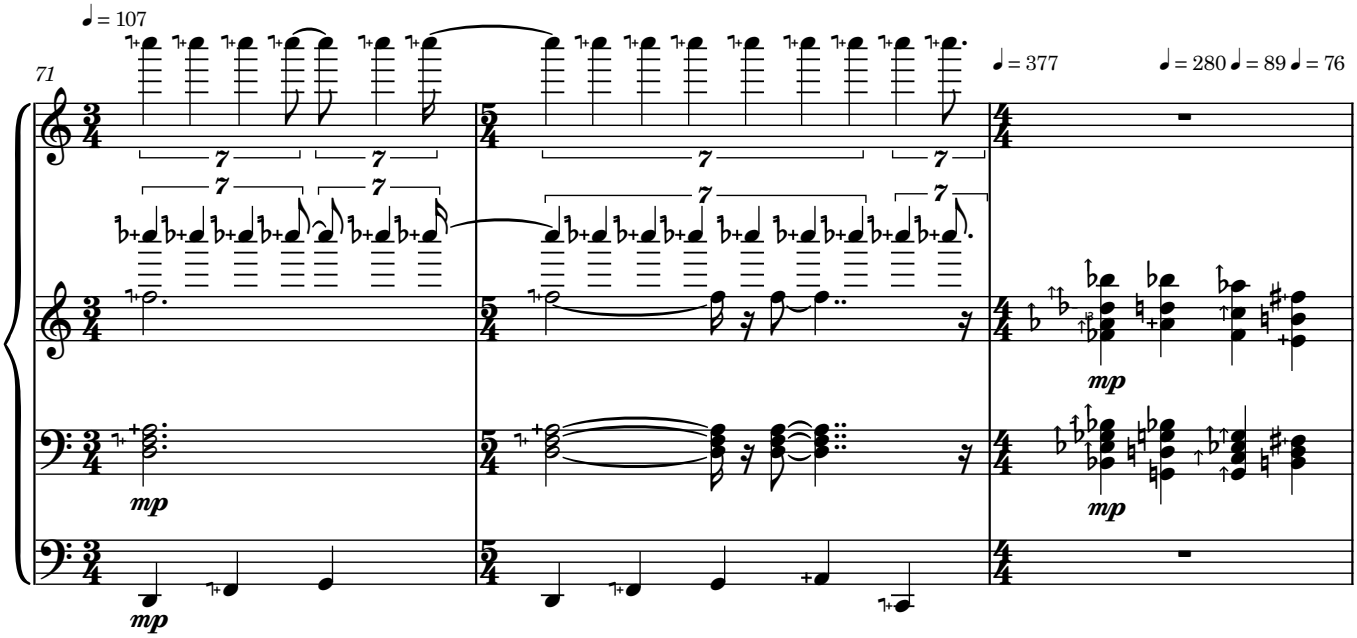

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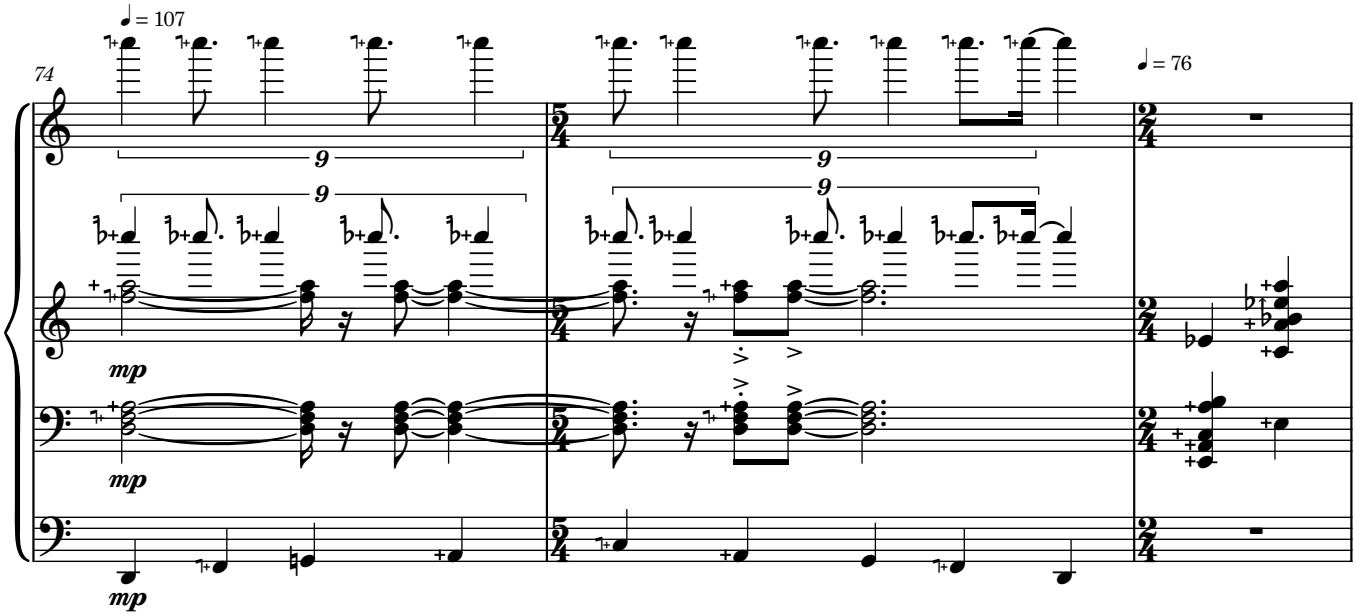

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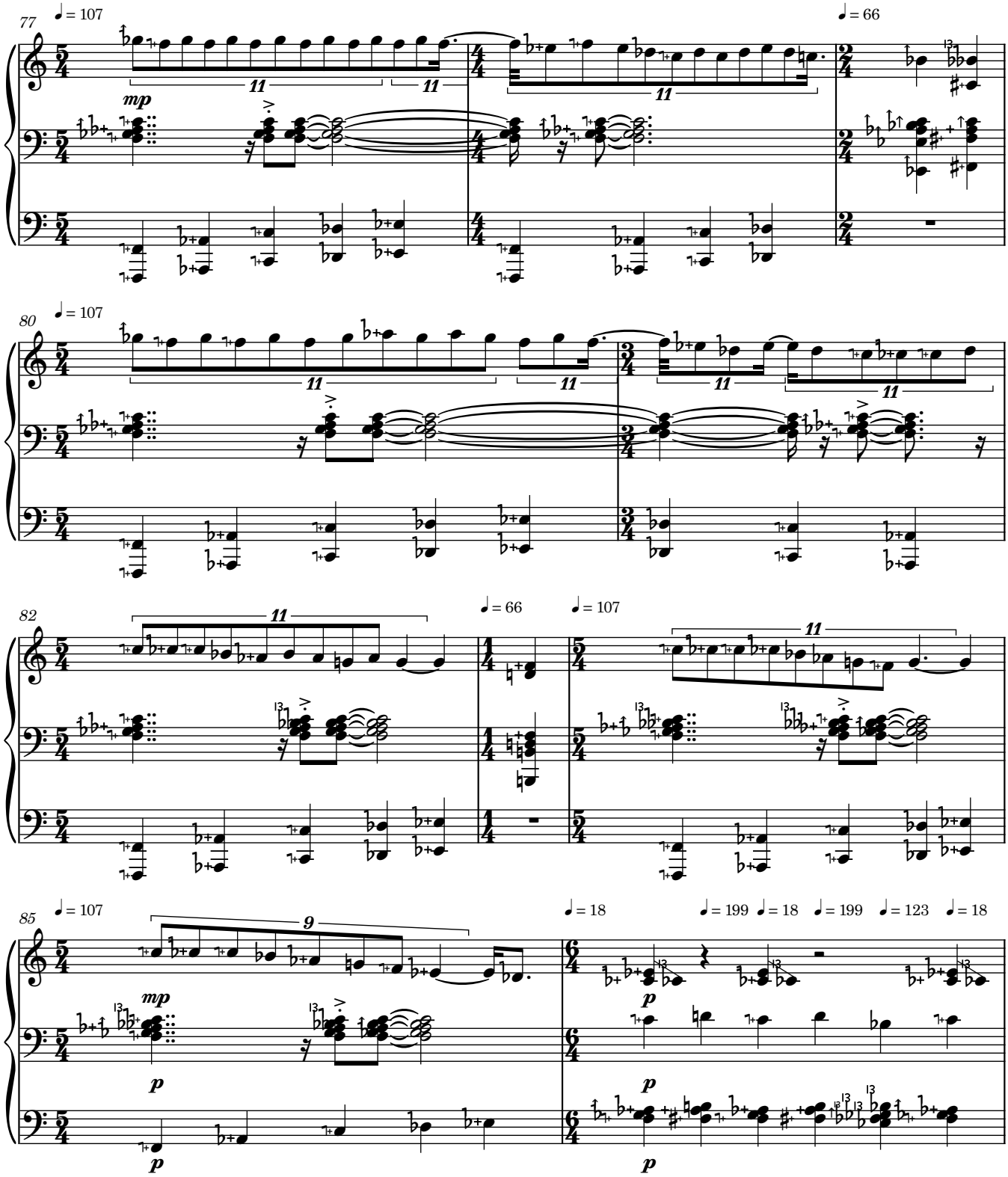

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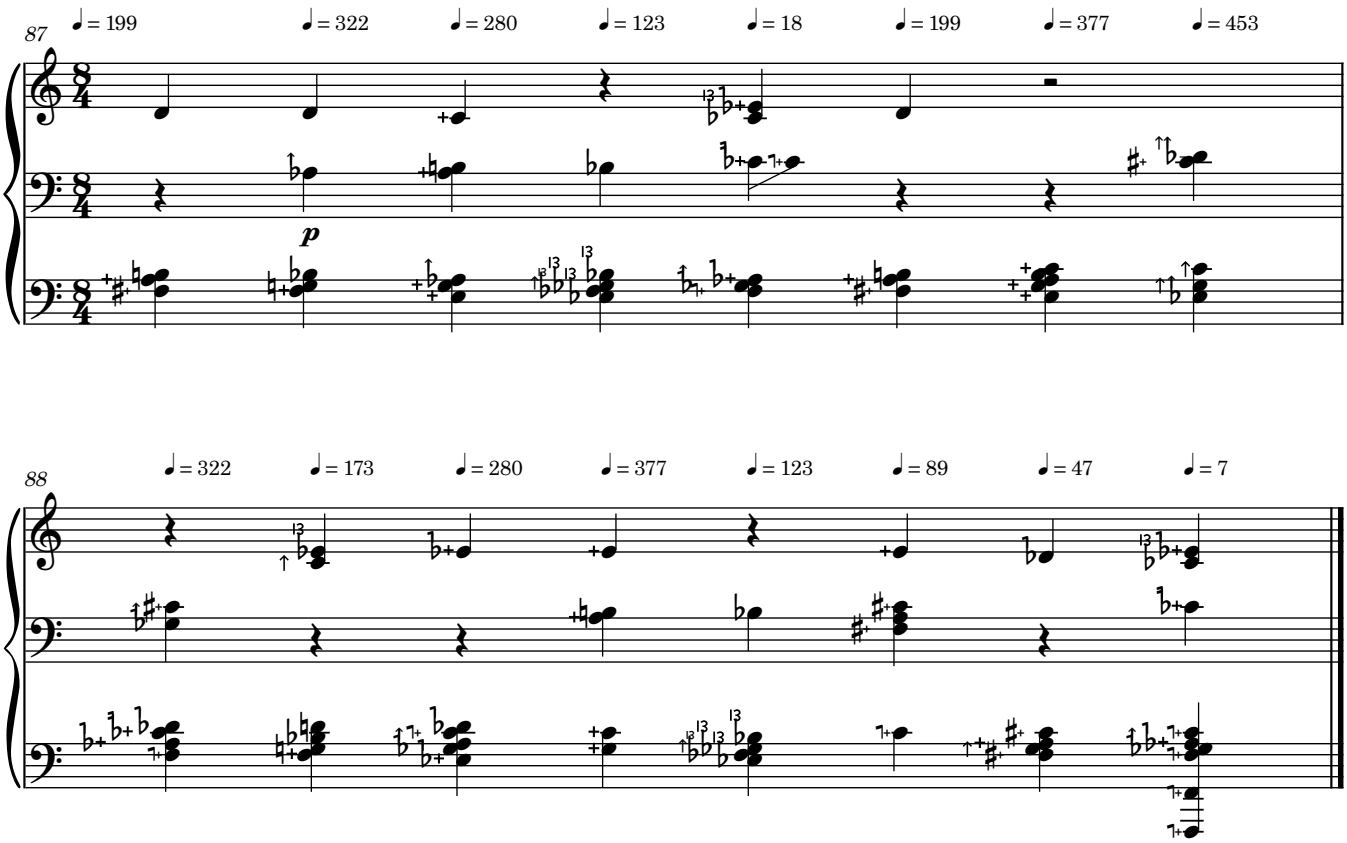

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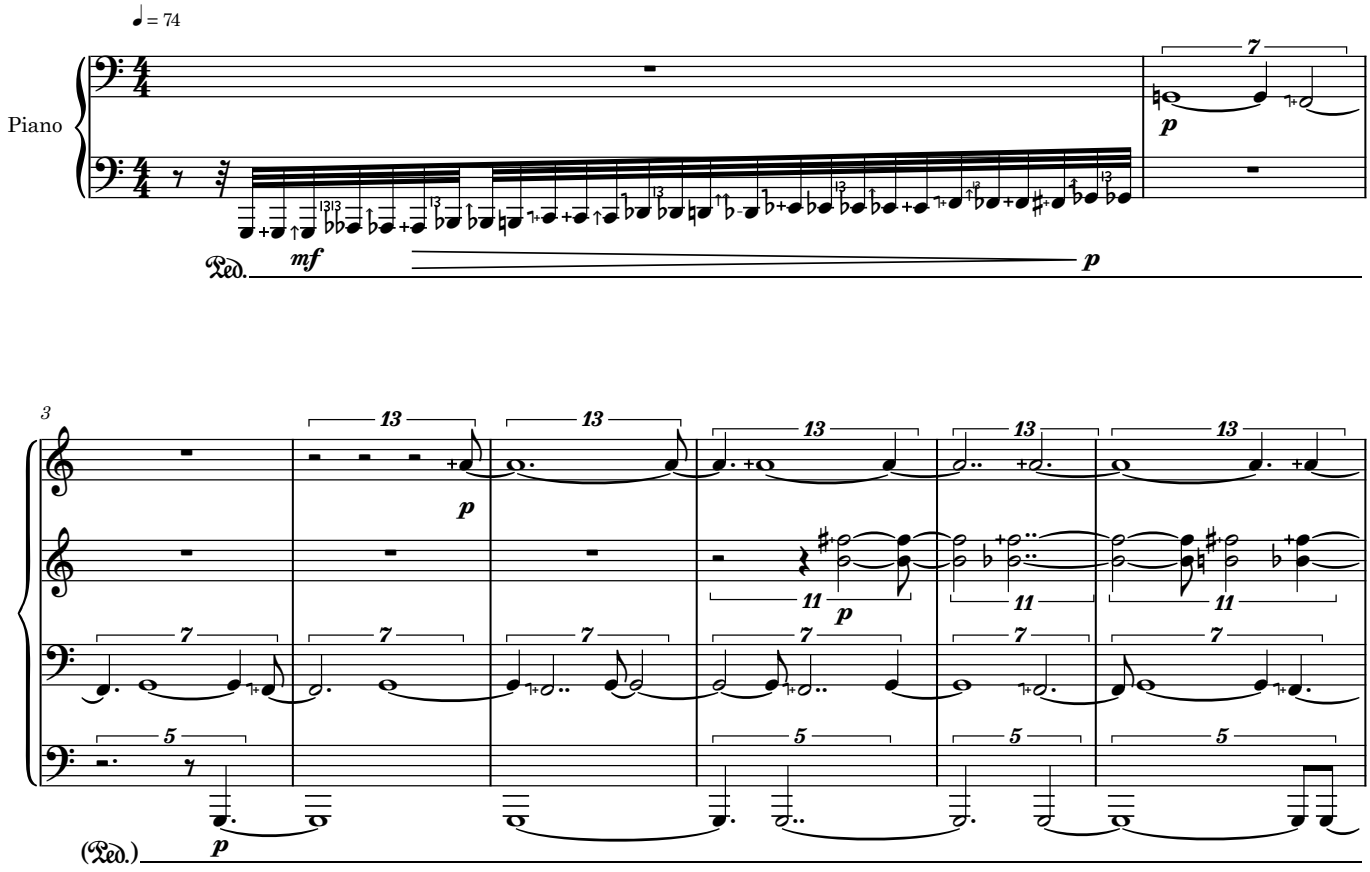

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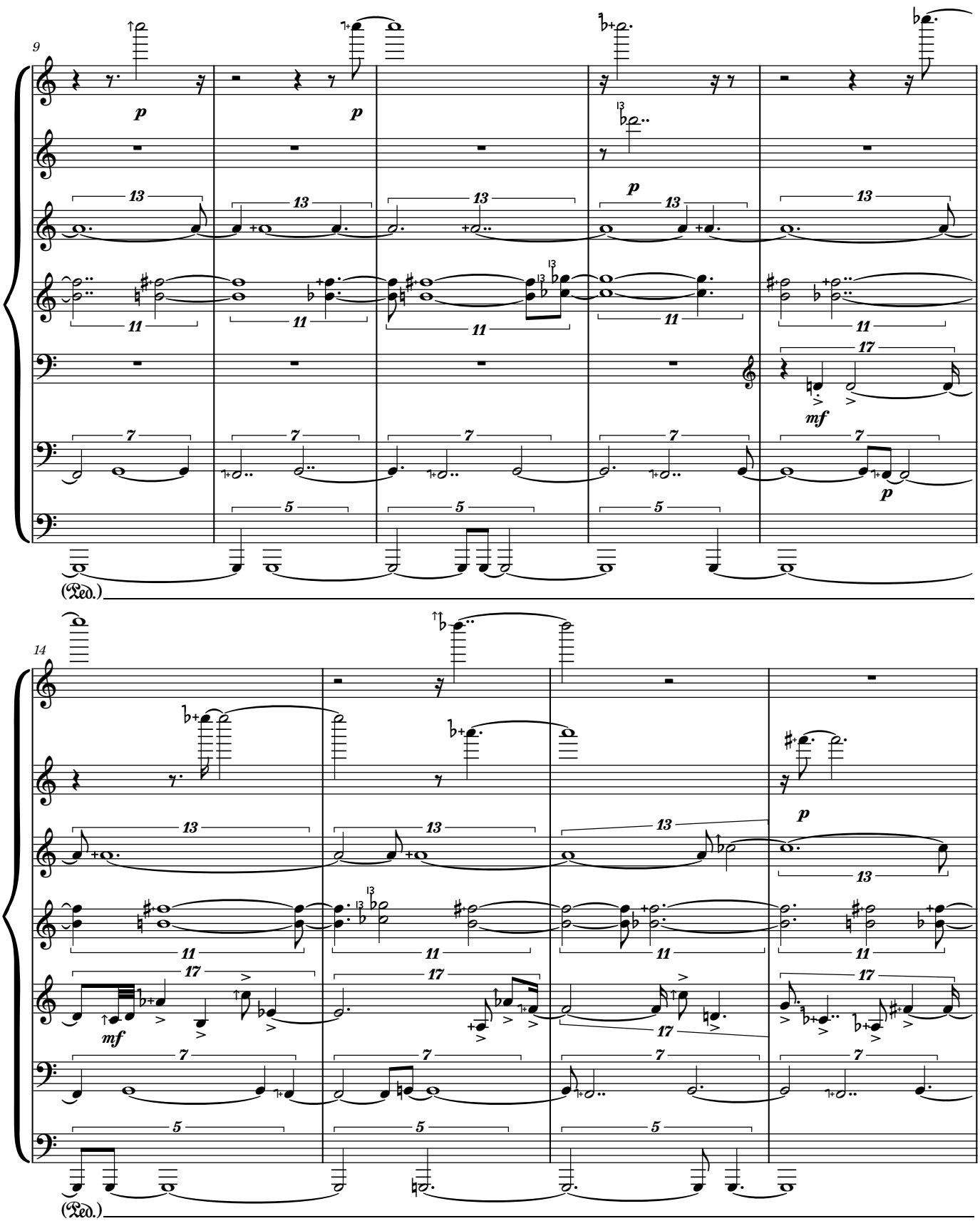


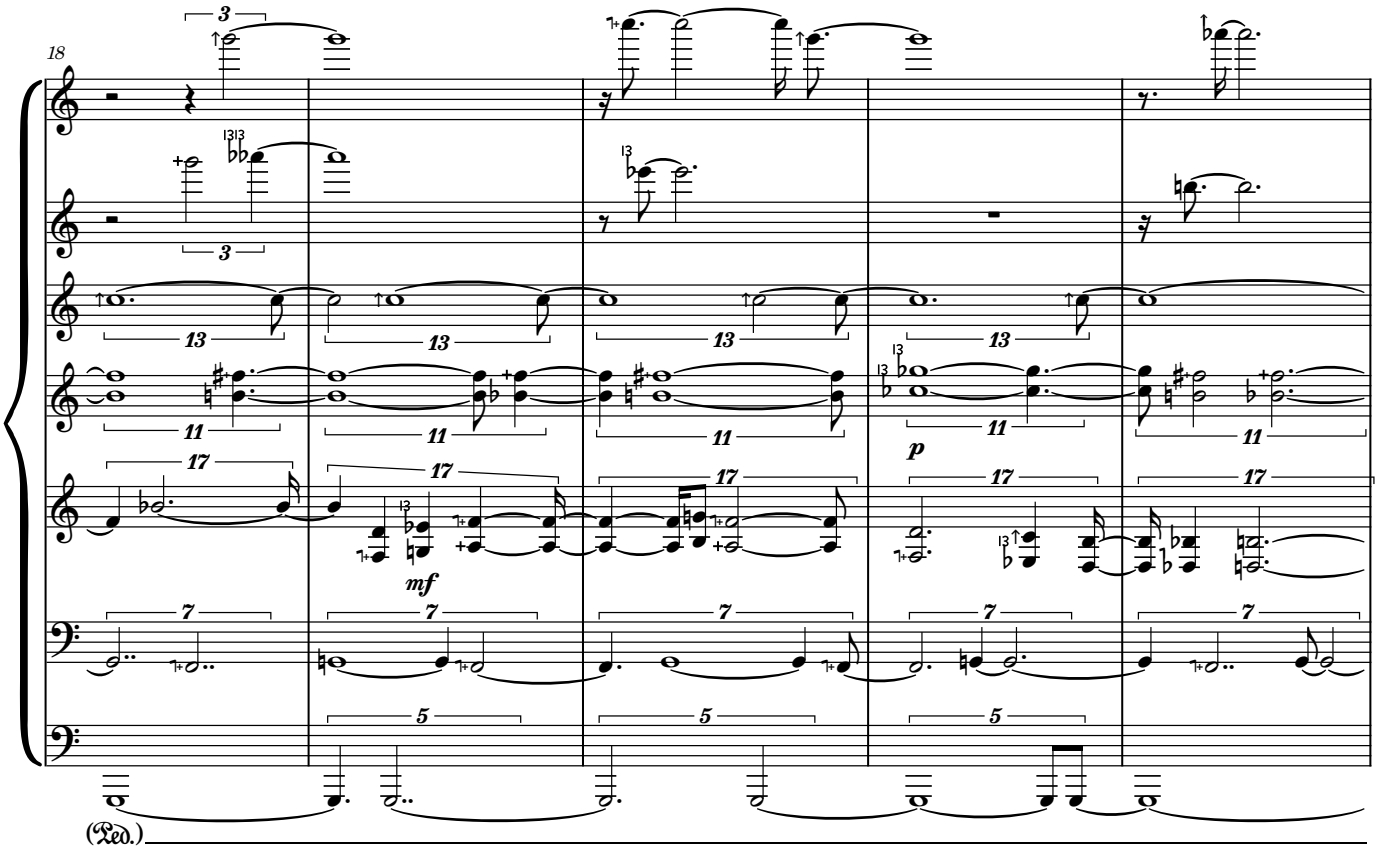
July 21-28, 2020
from a 2017 sketch
Germantown, NY

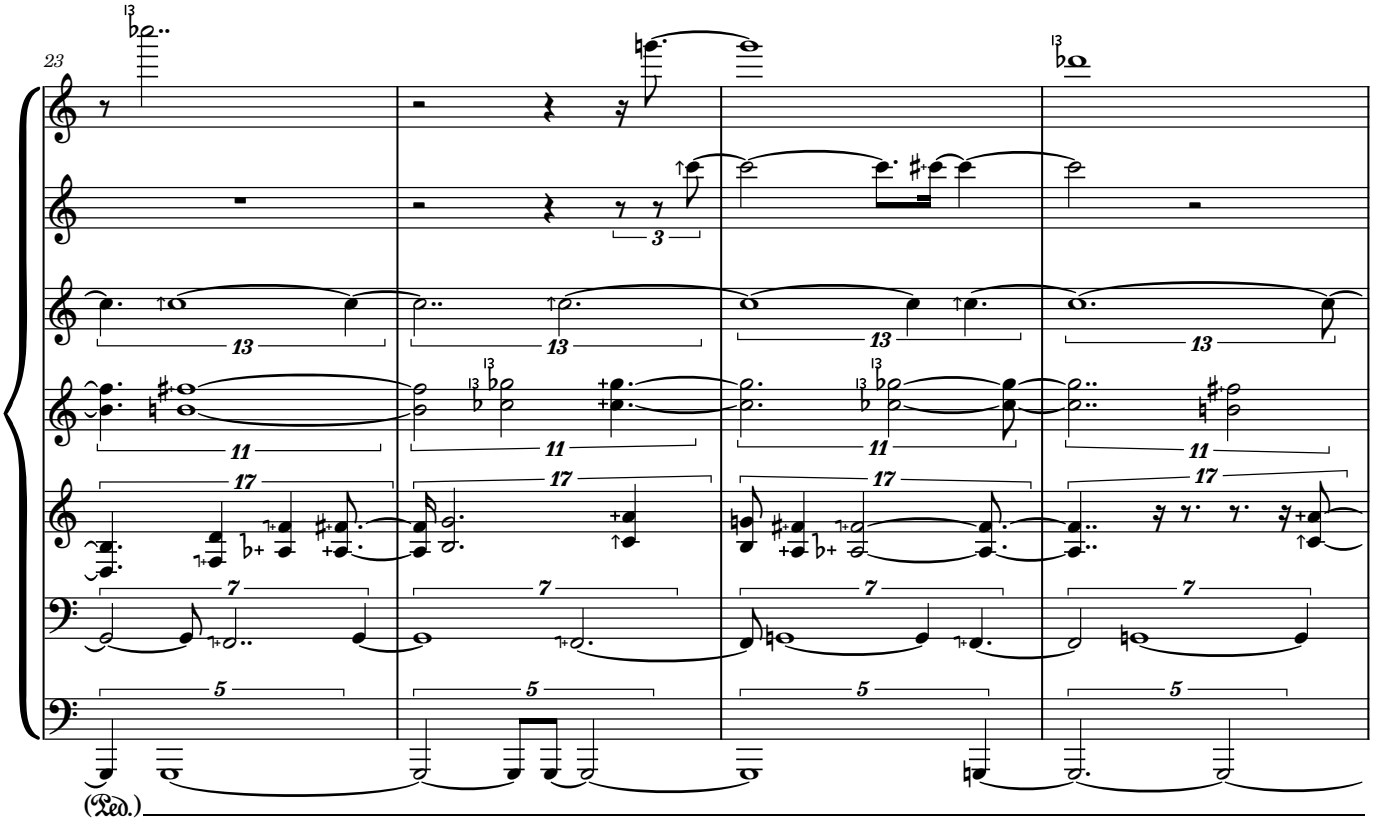
Neptune Night

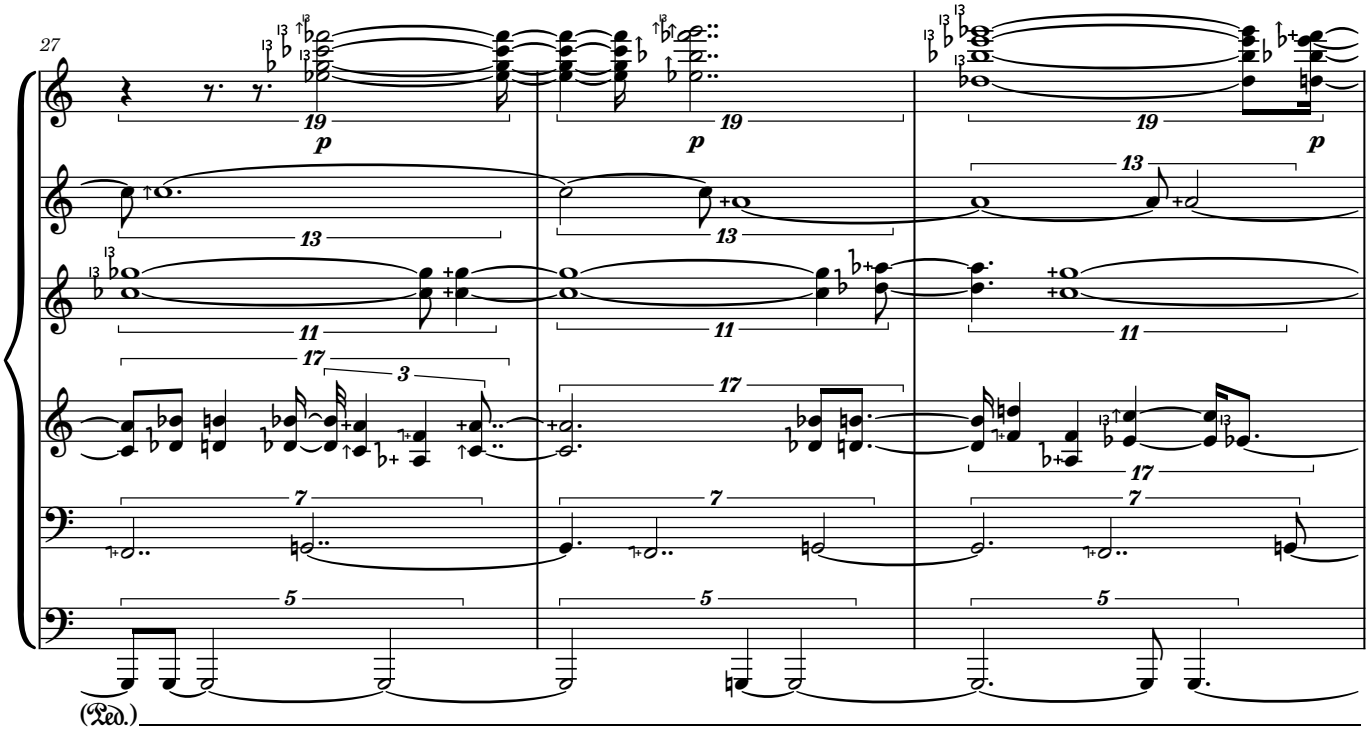
Kyle Gann
2017
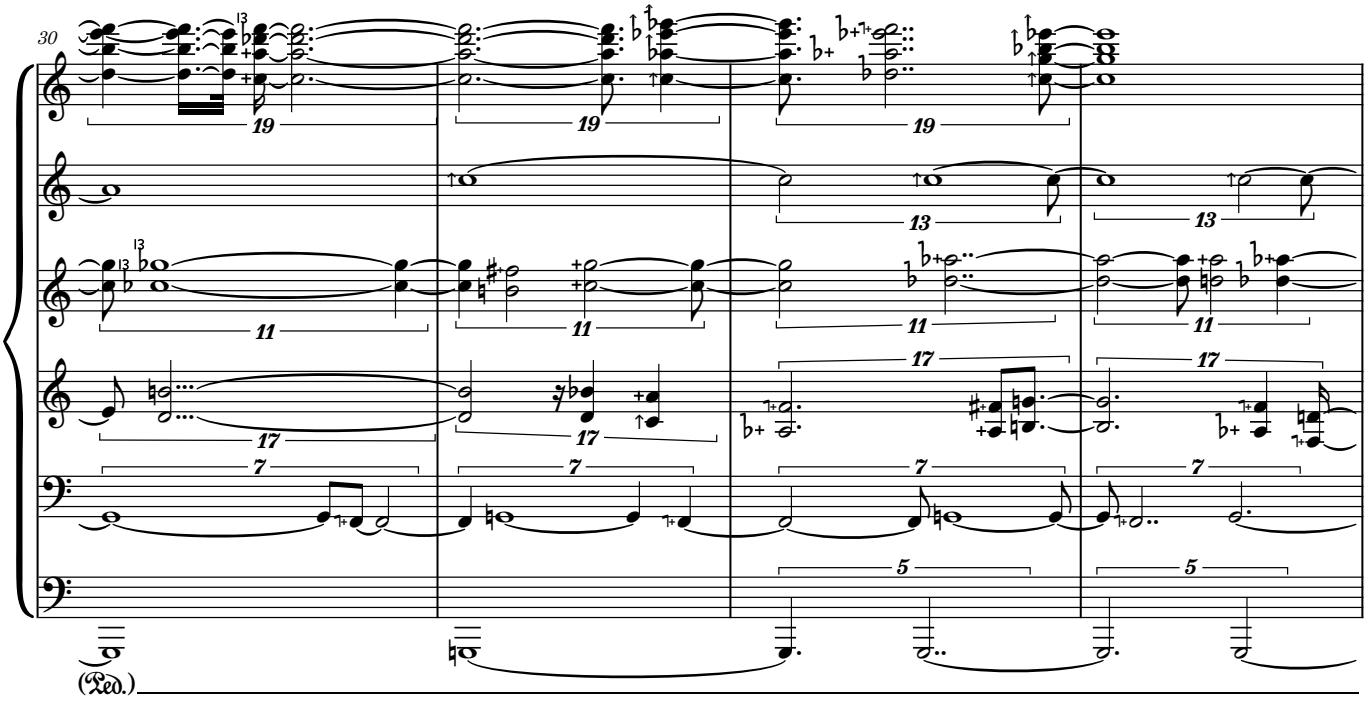


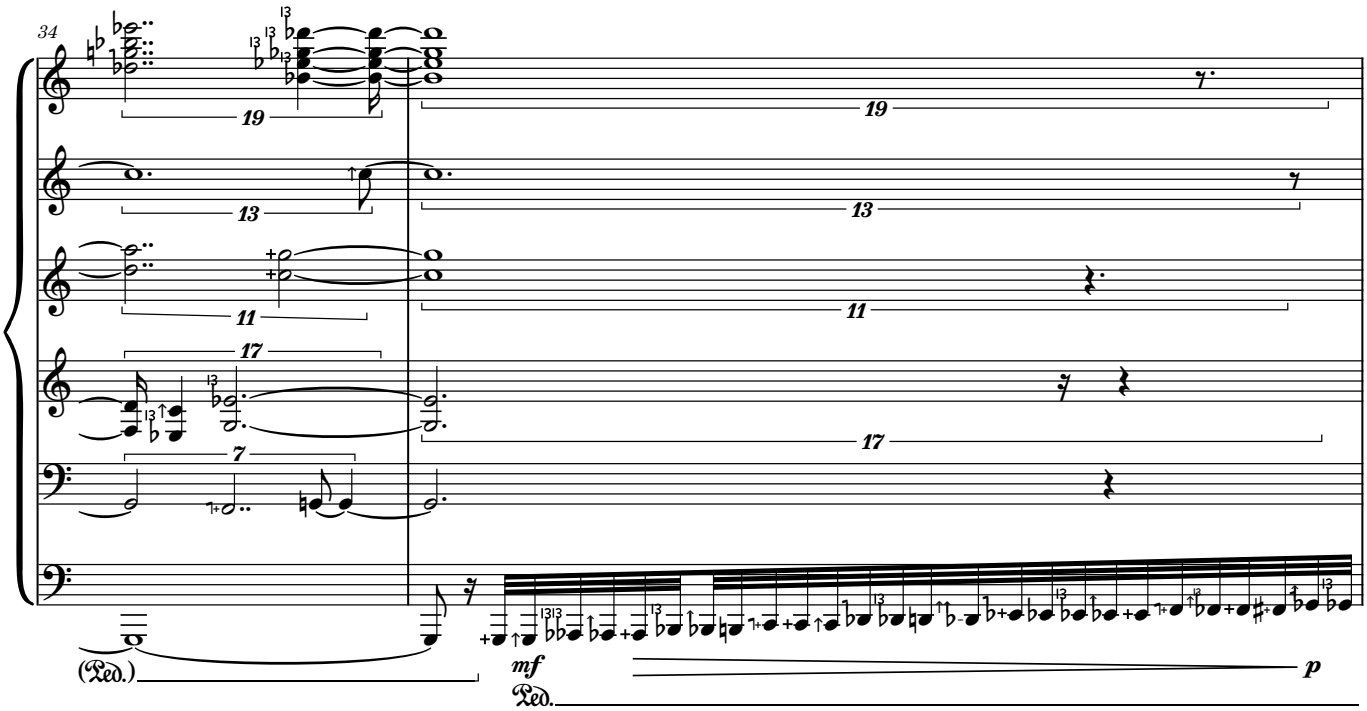

9
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(Ped.)
14
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mf
p
(Ped.)

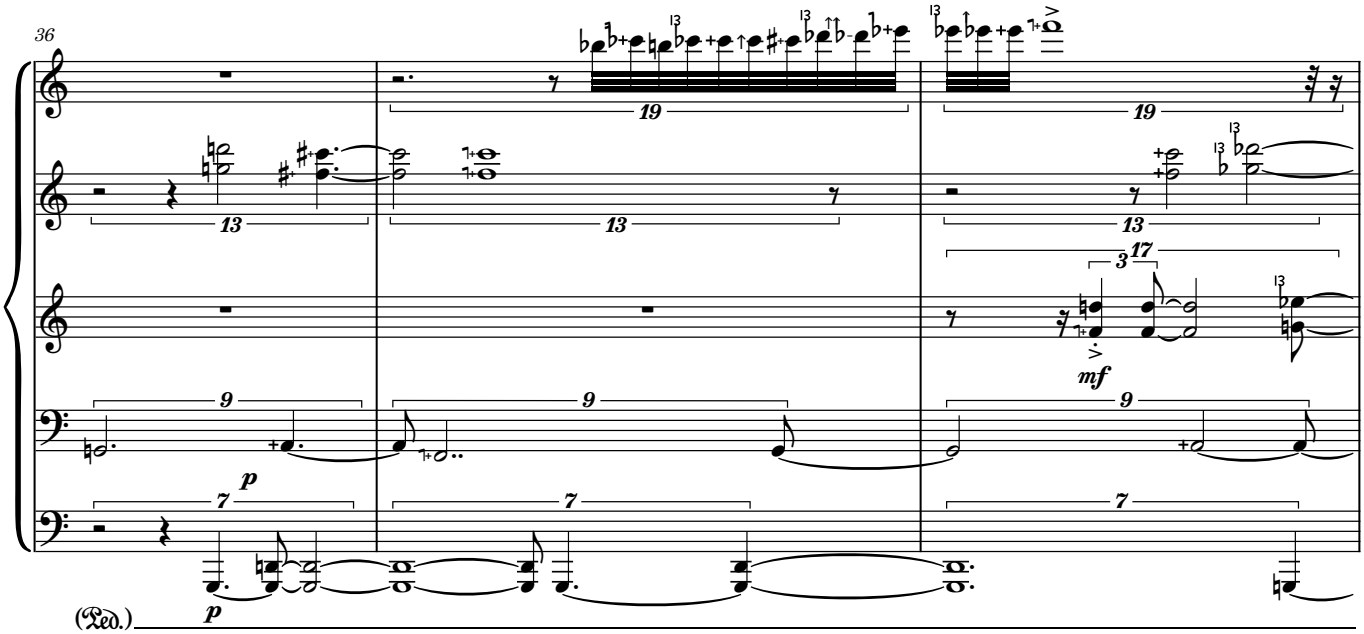

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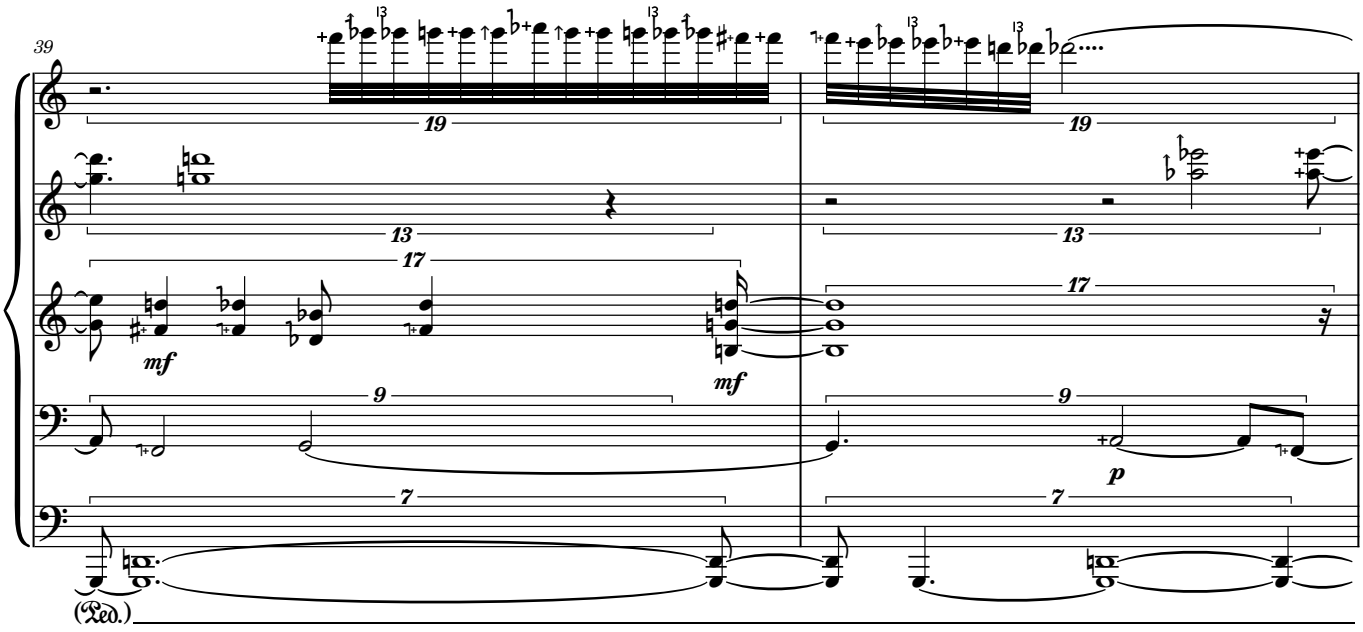

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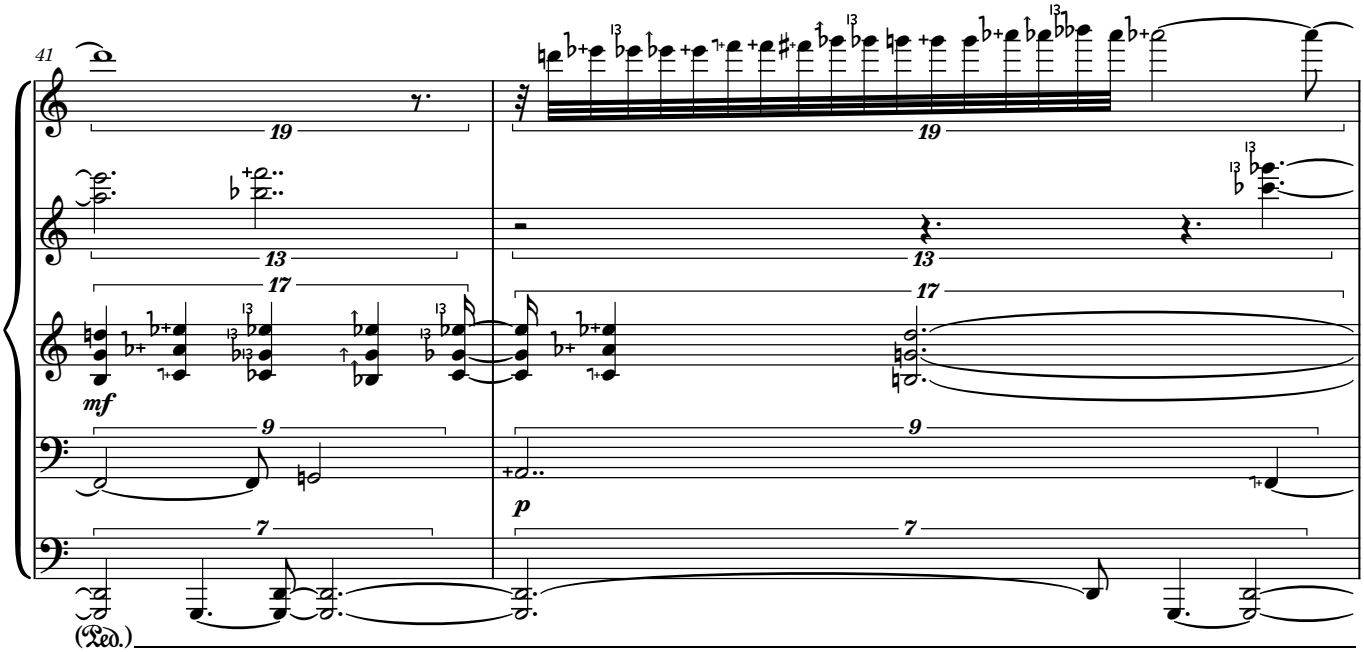

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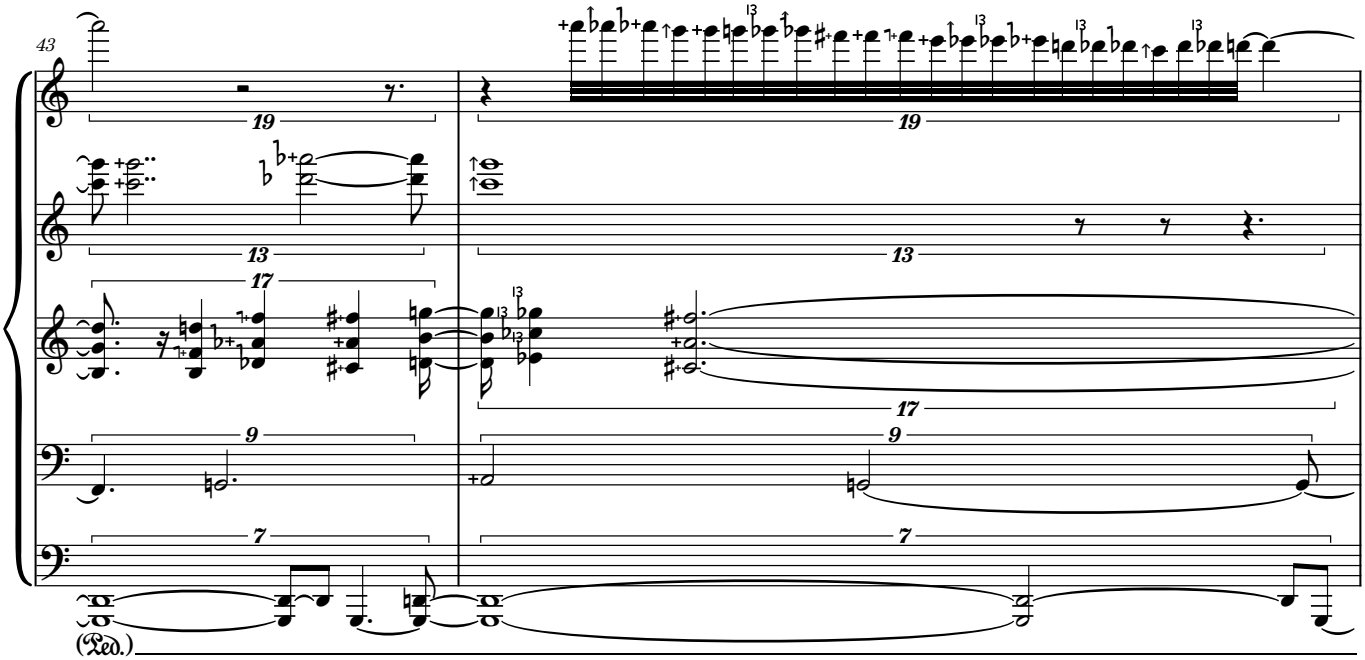

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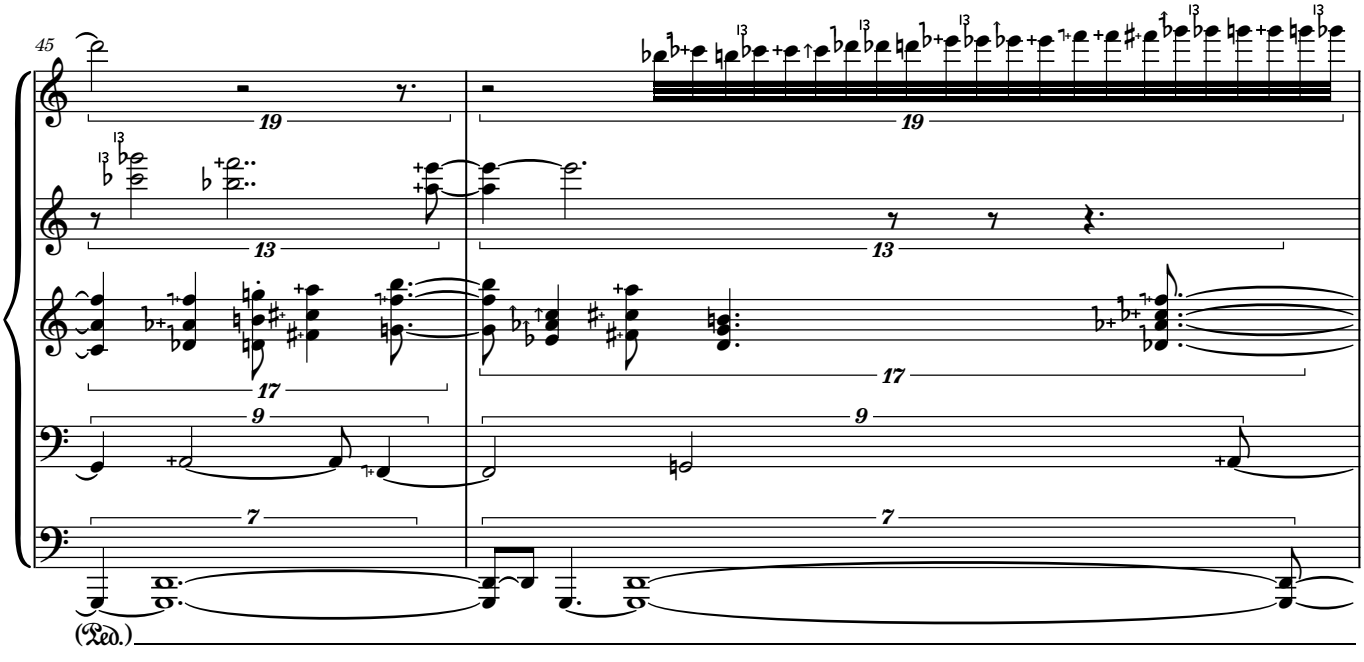

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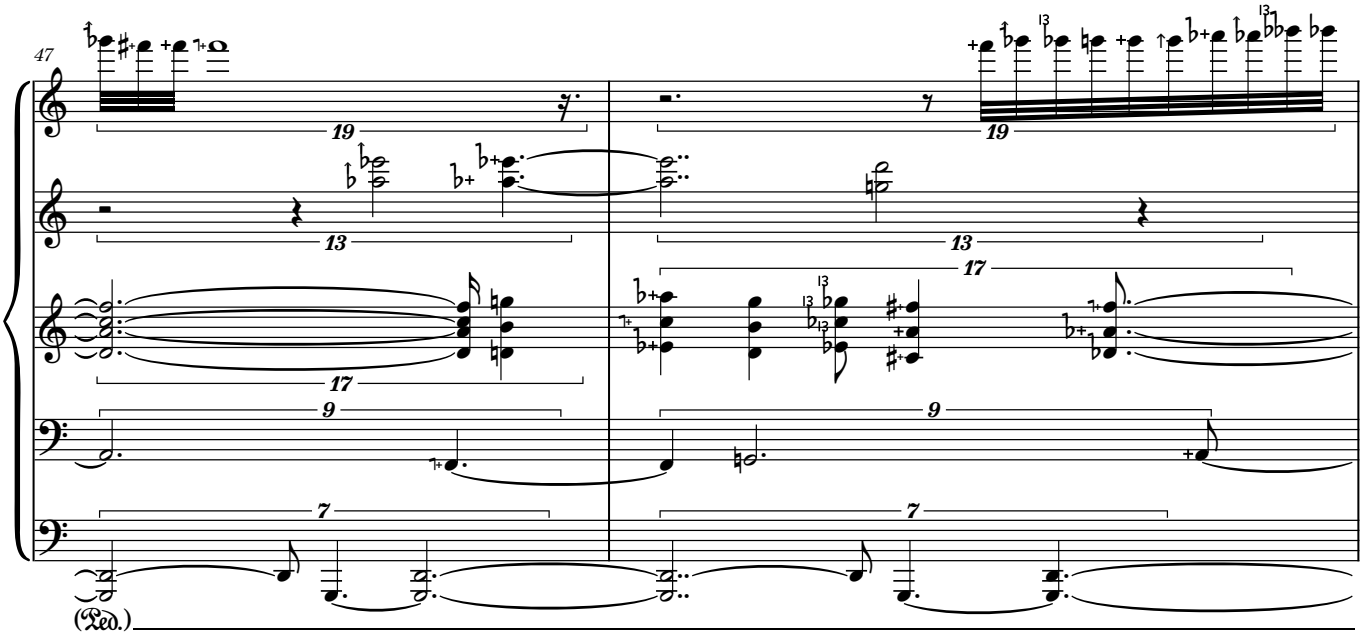

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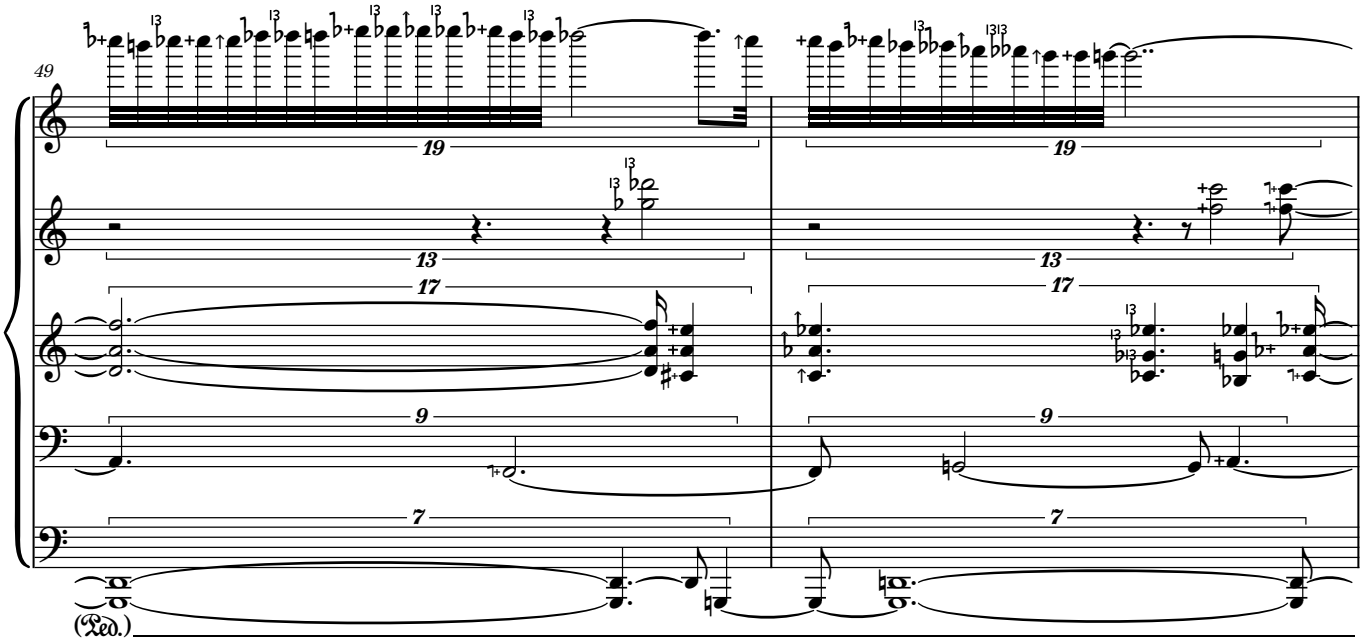

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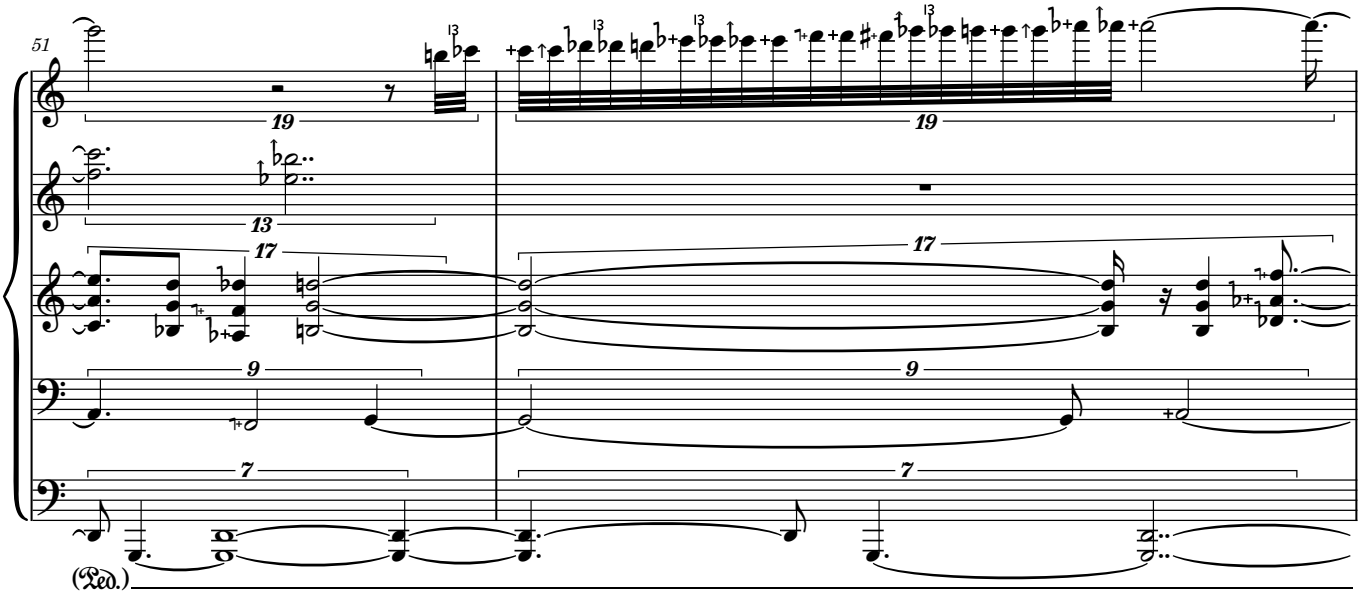

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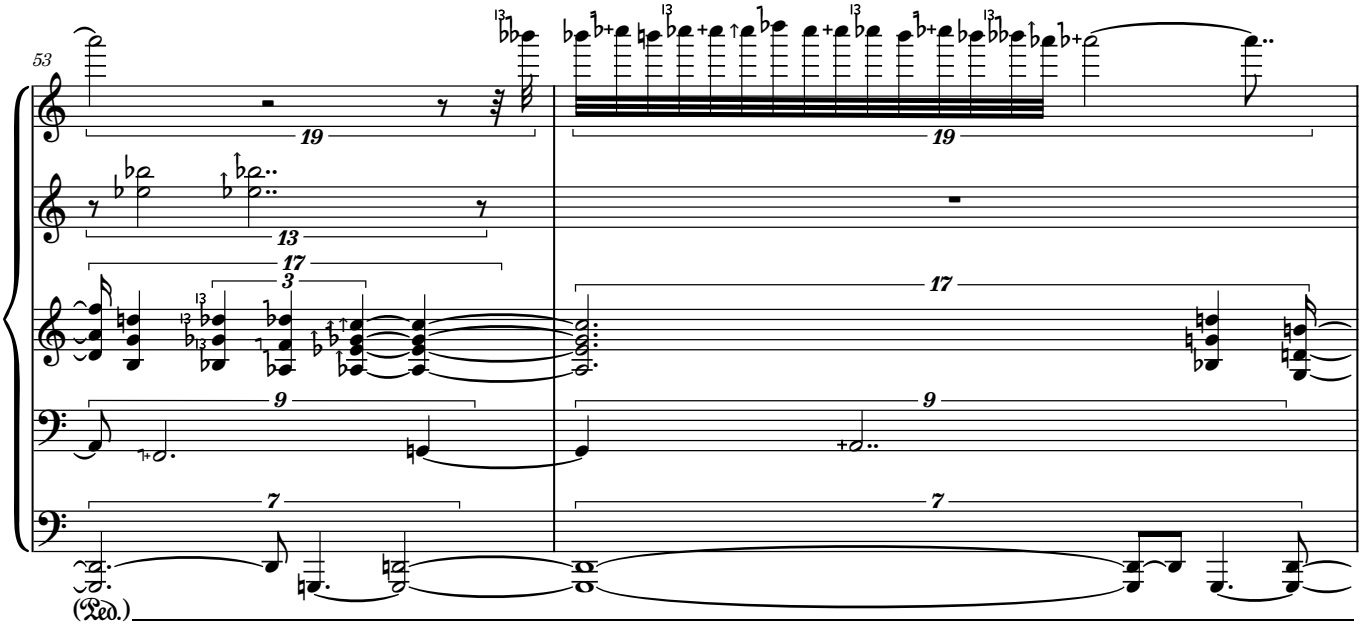

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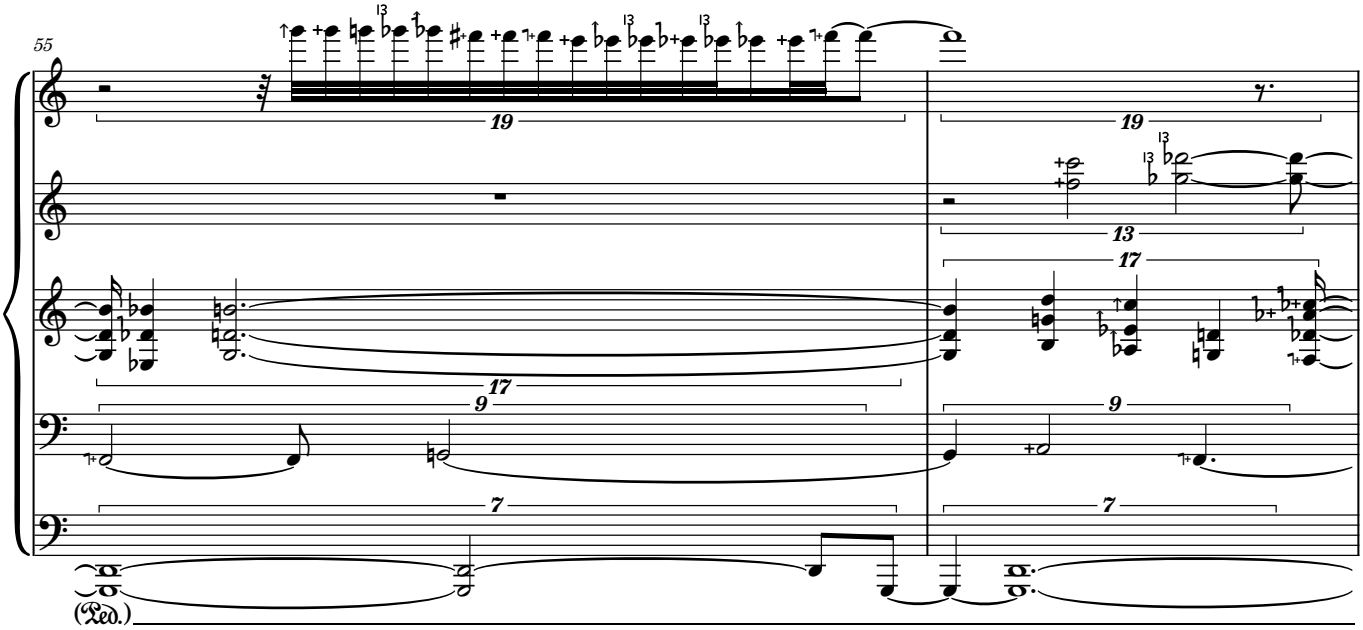

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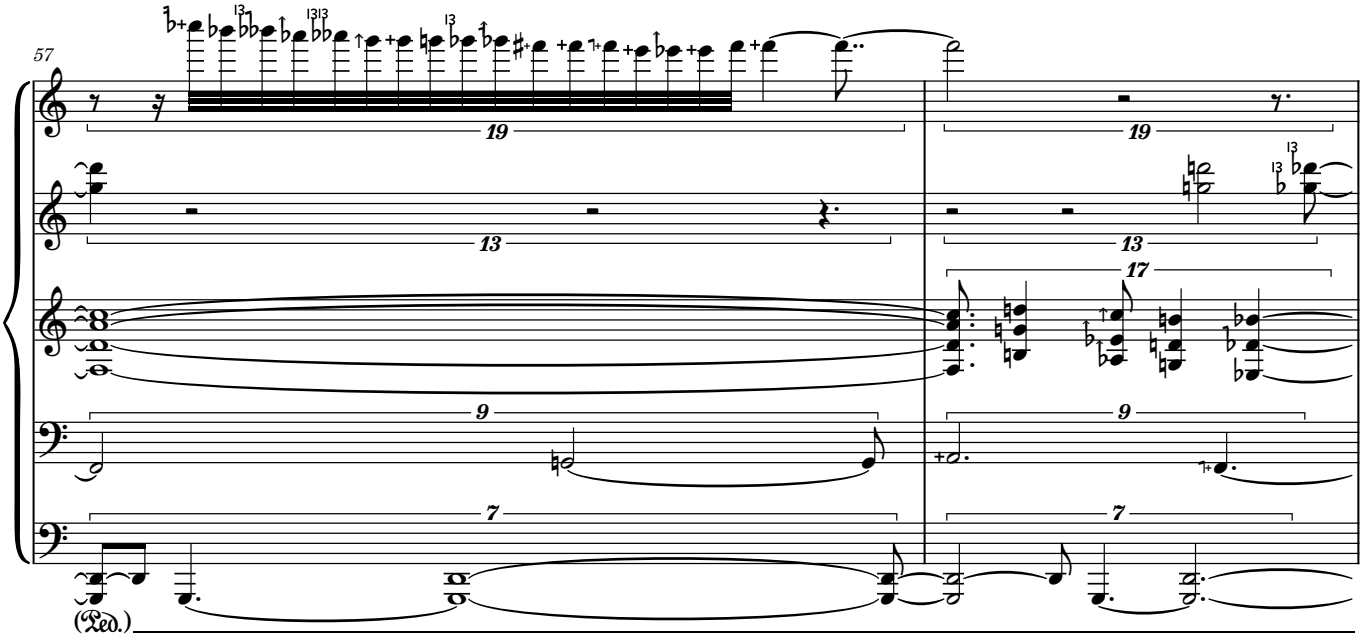

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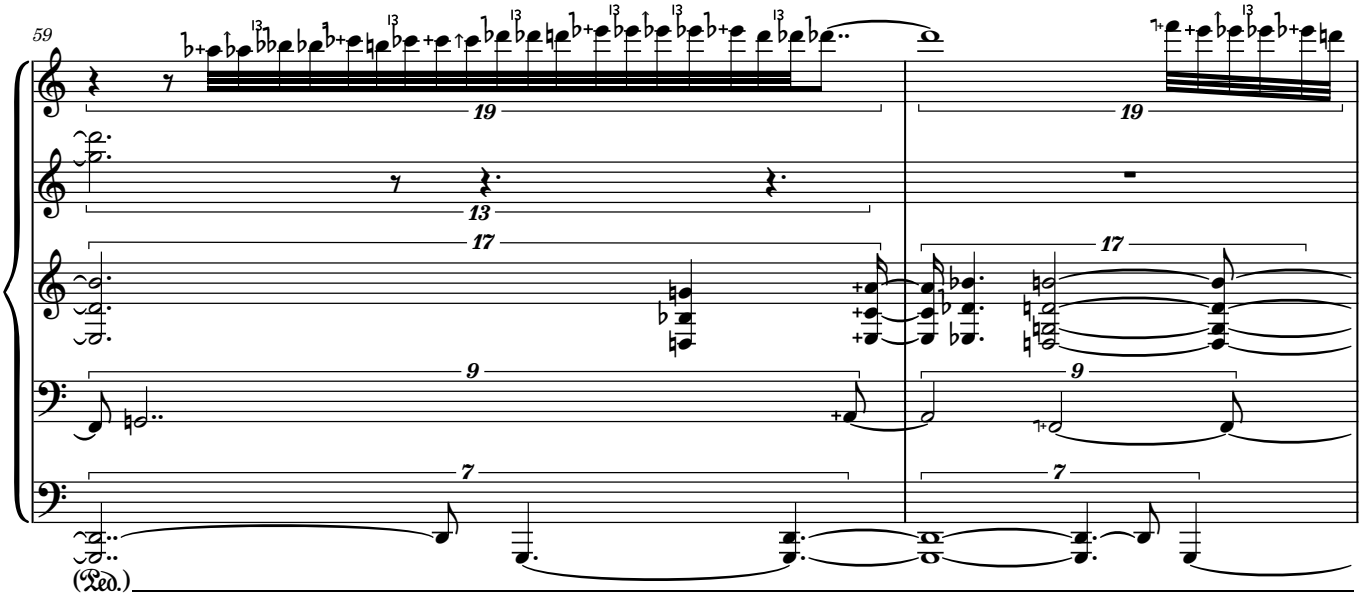

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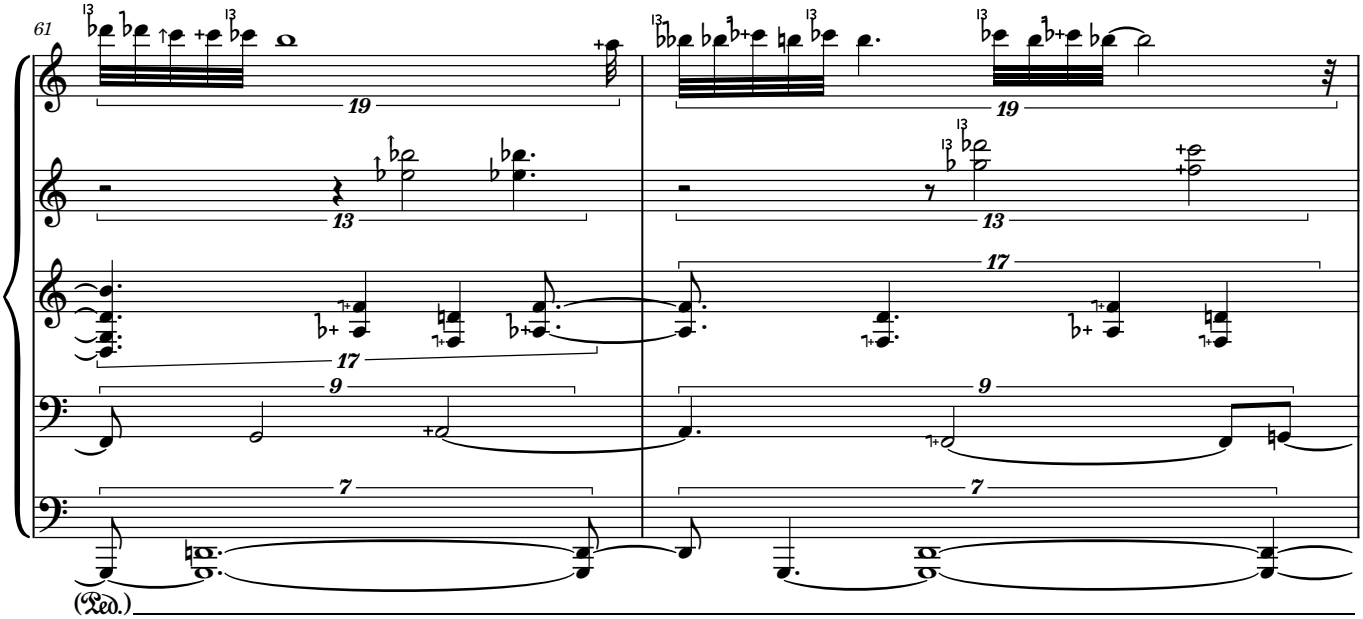

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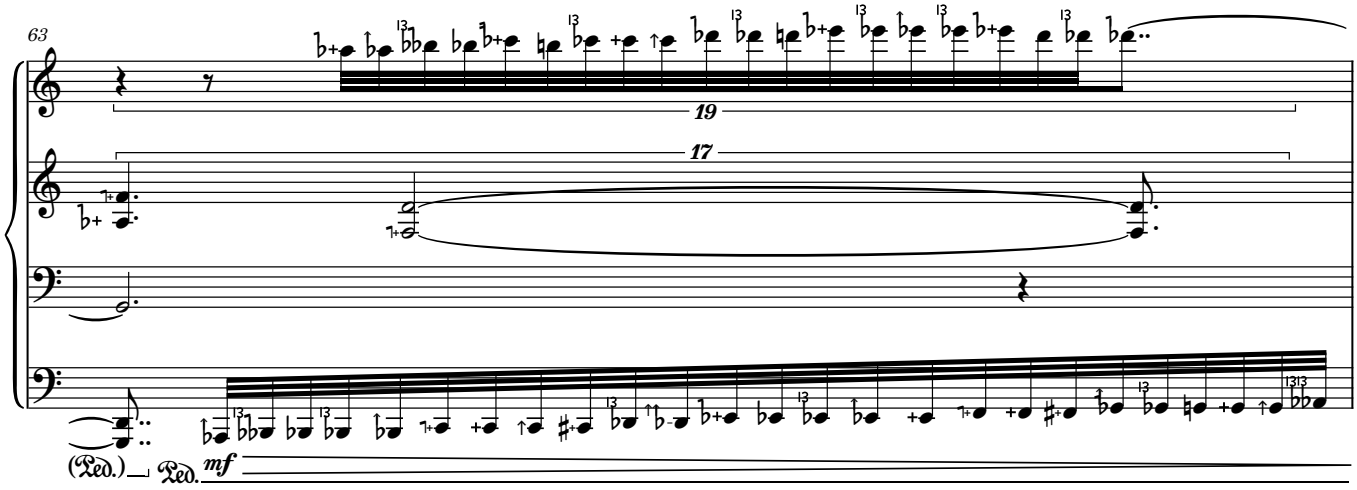

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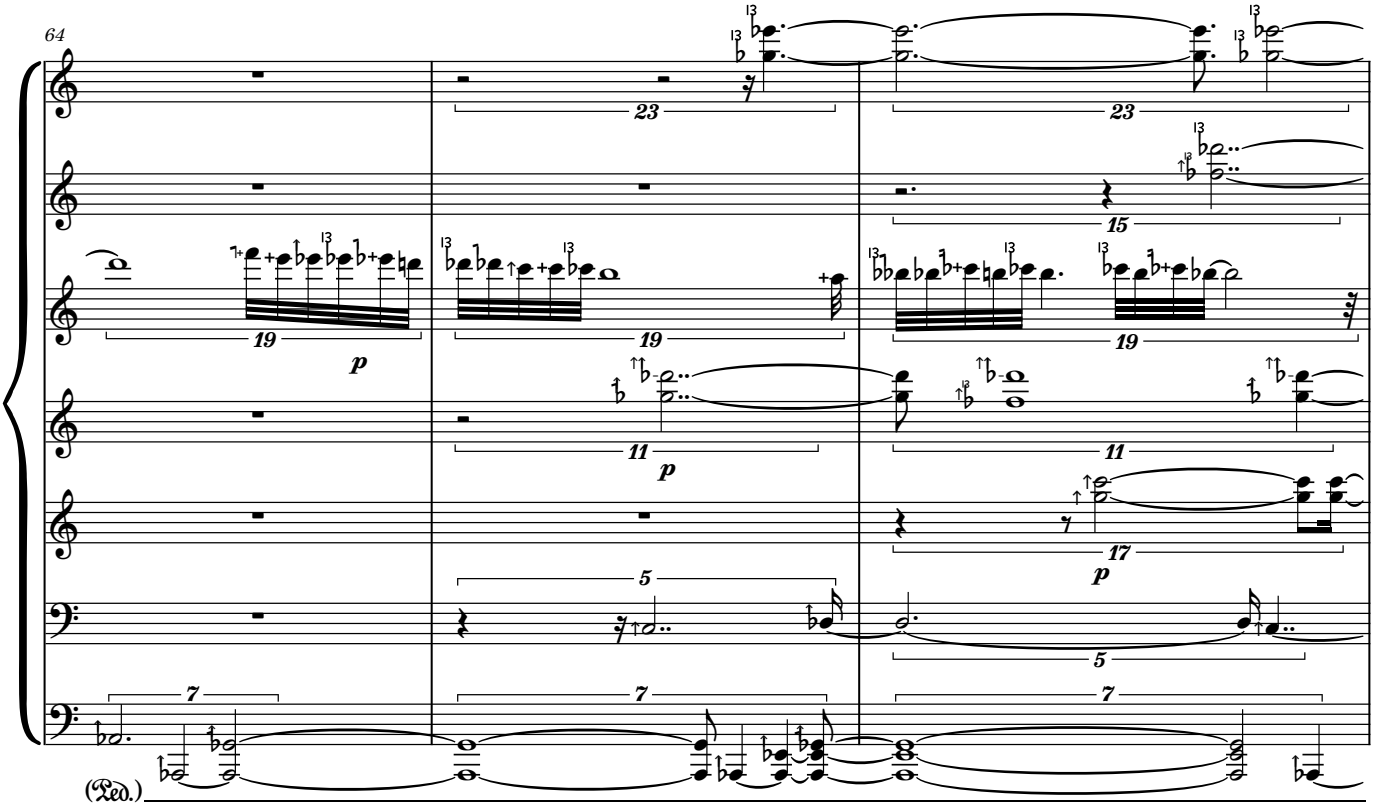

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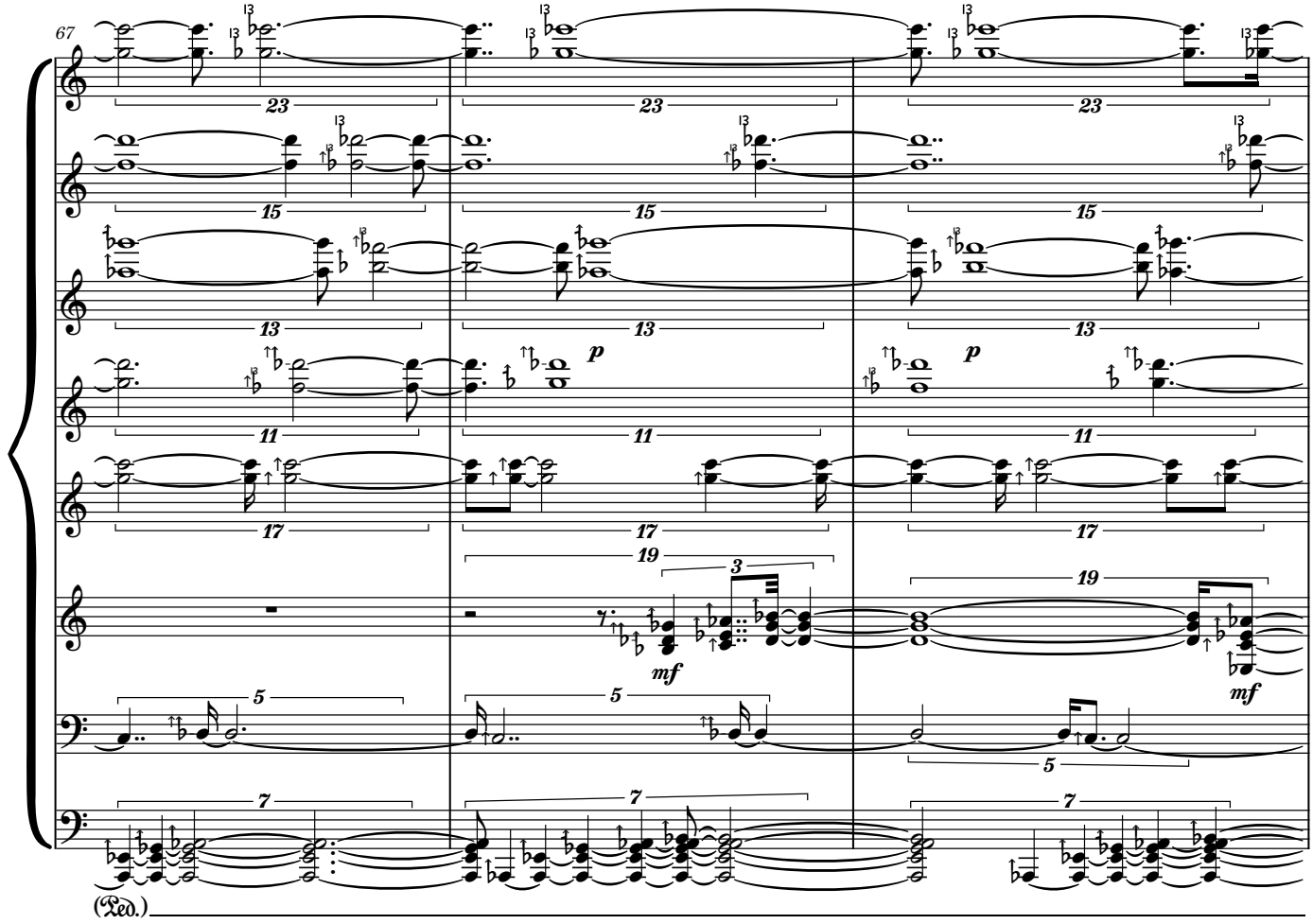

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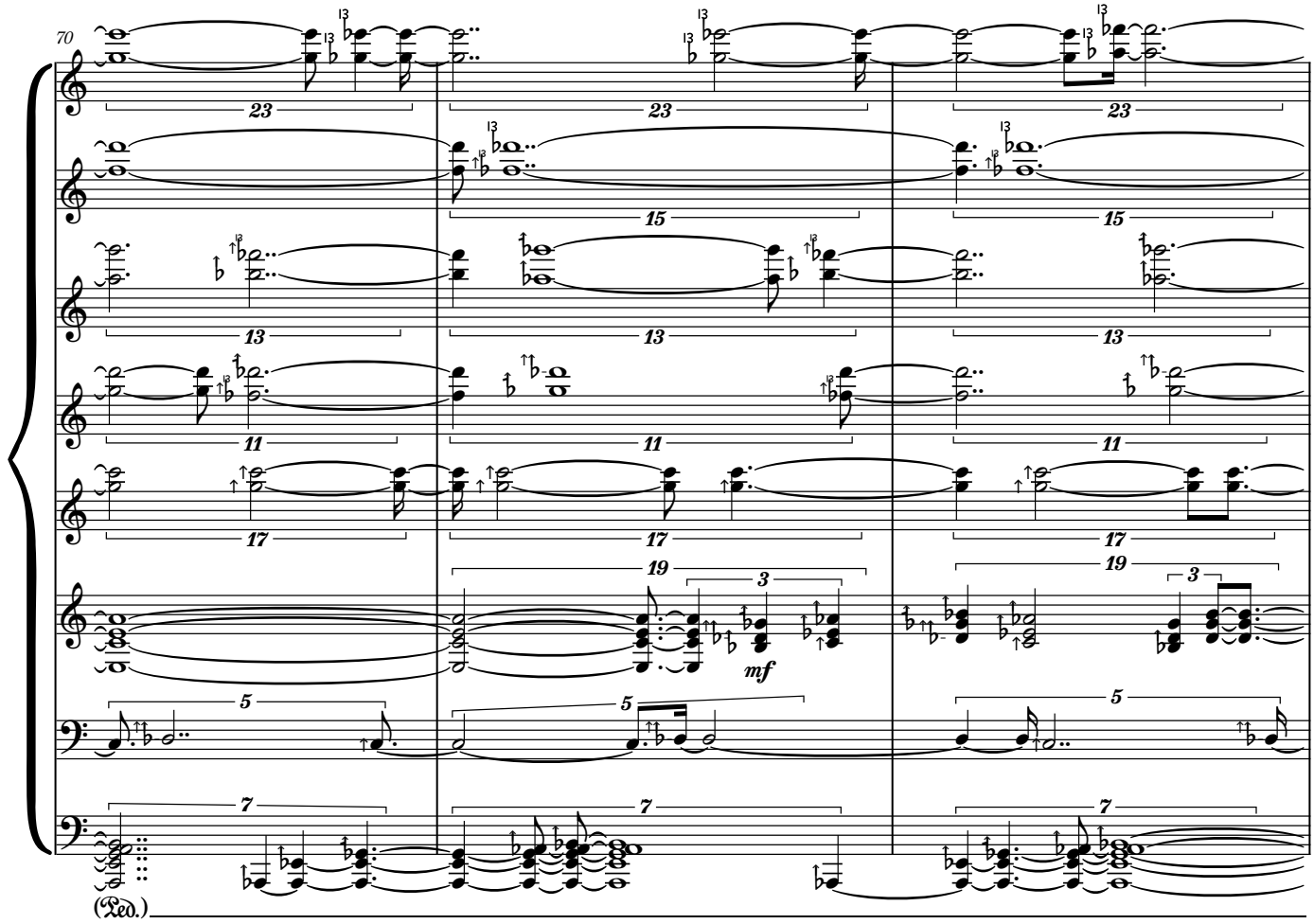

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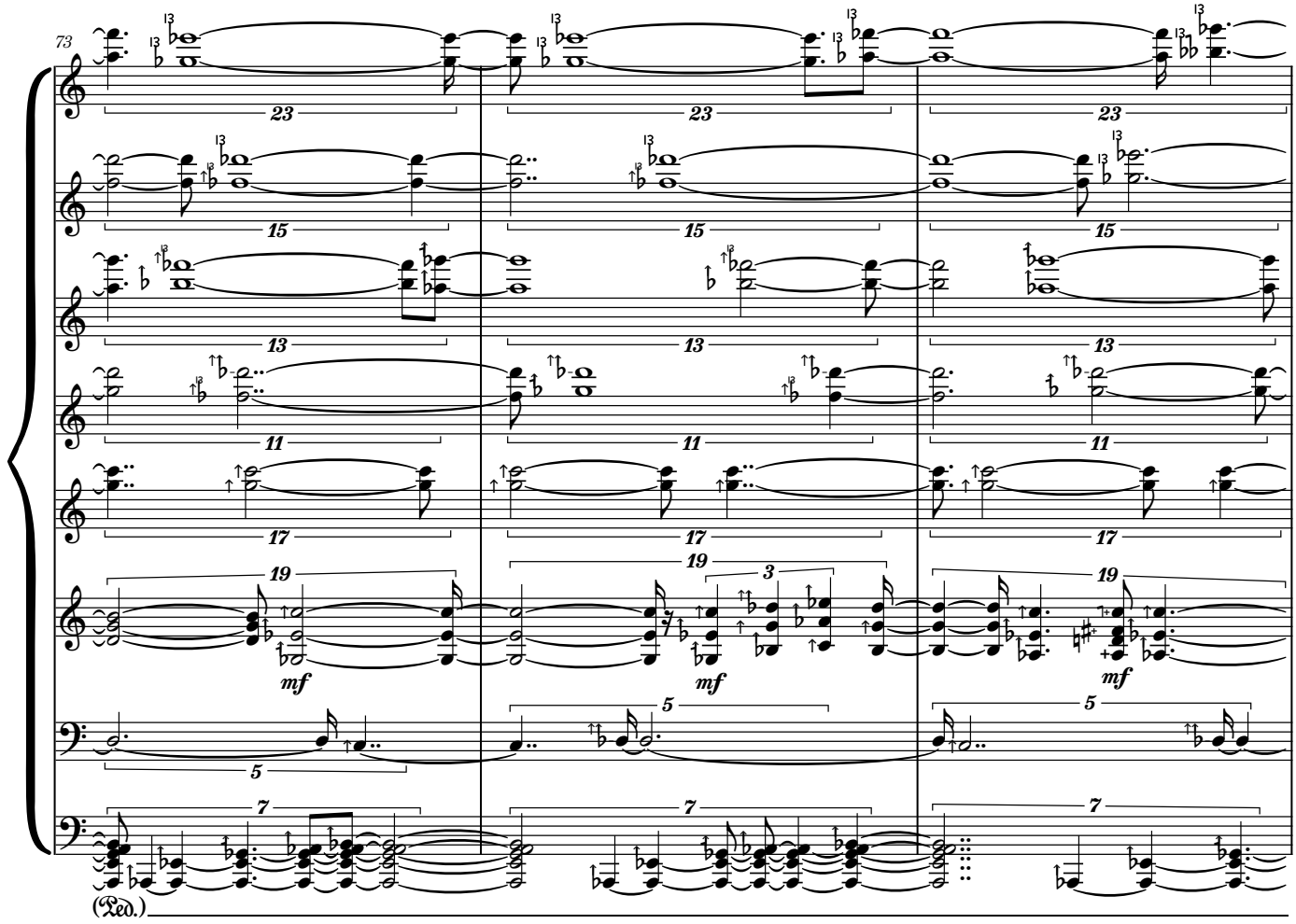

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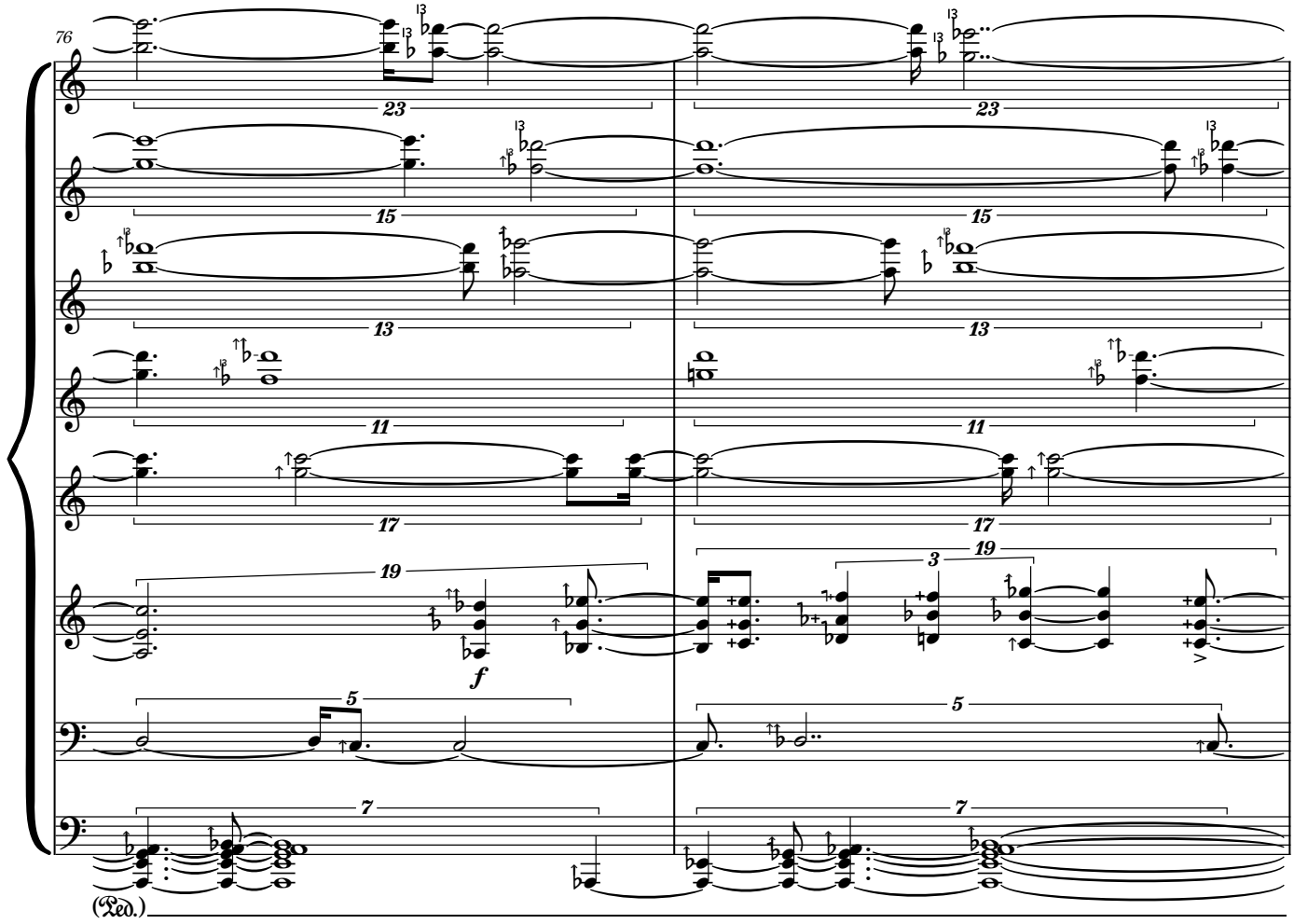

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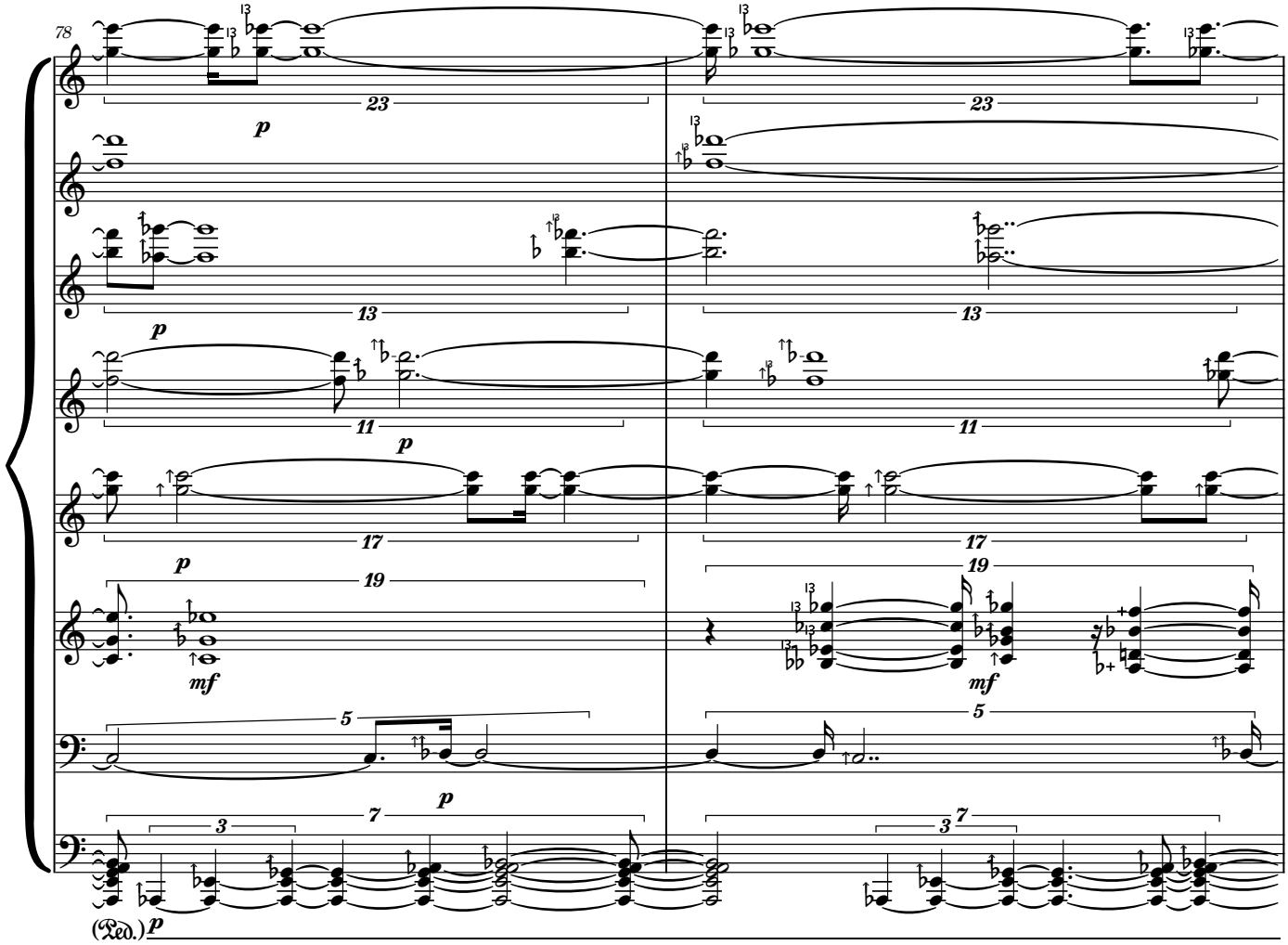

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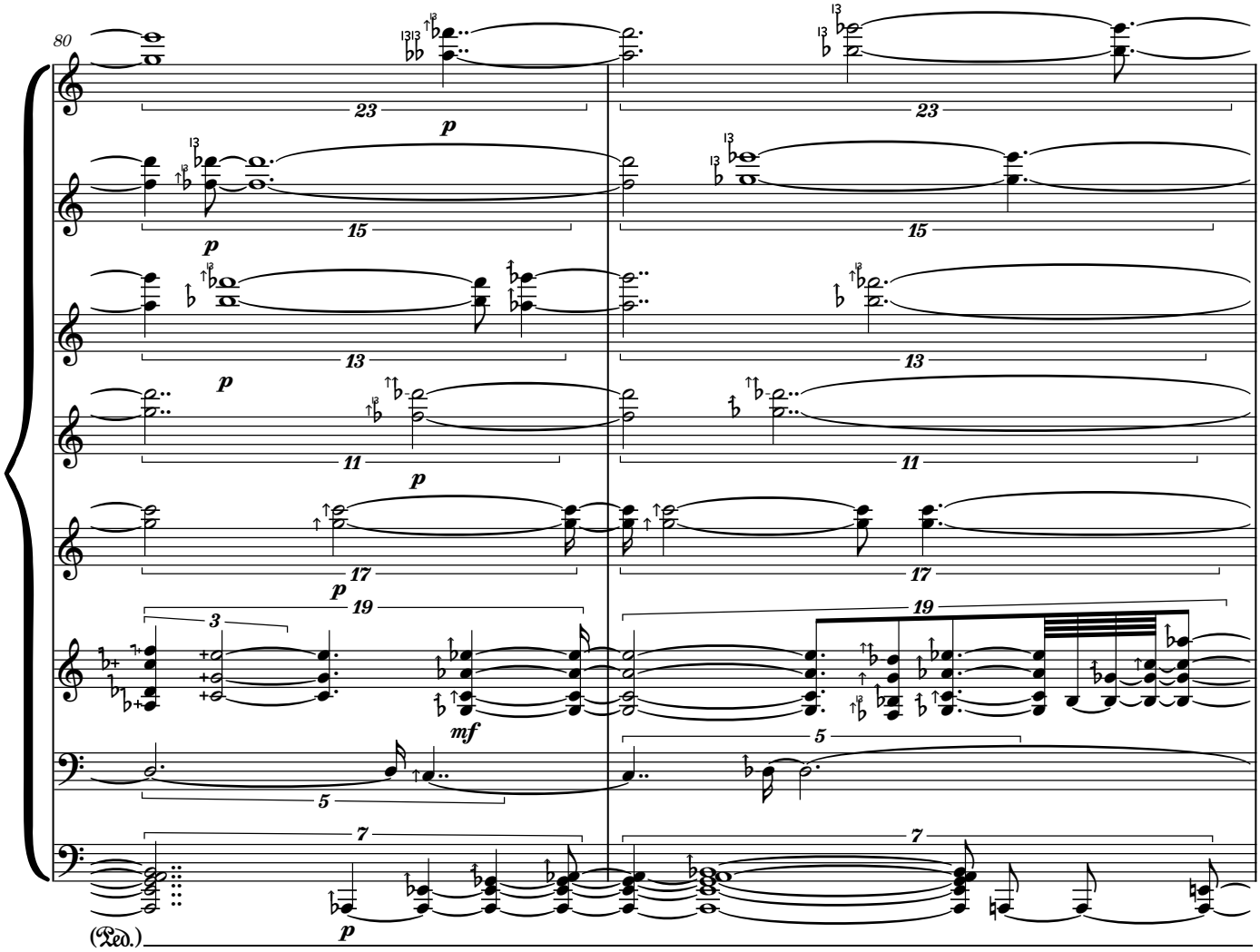

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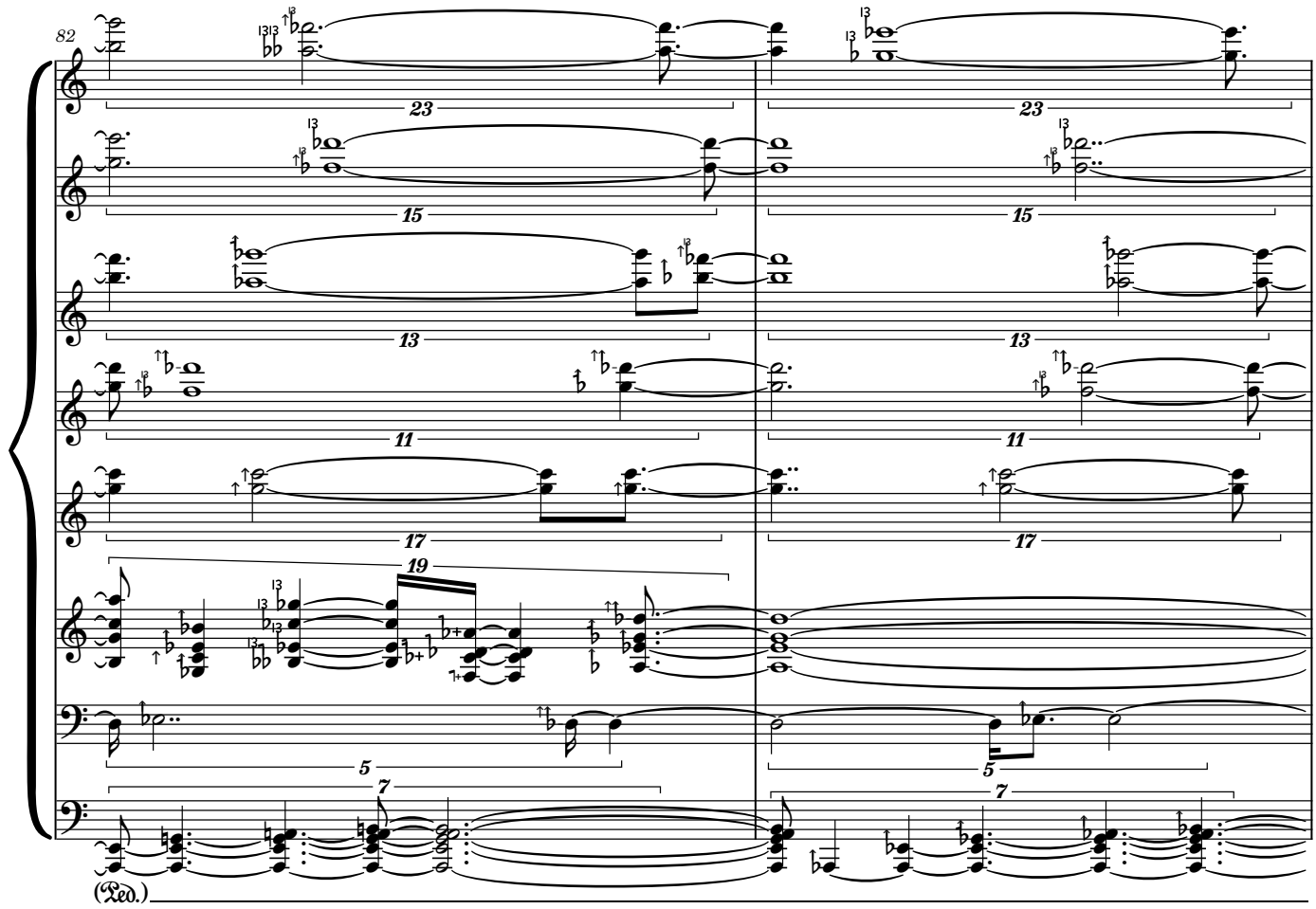

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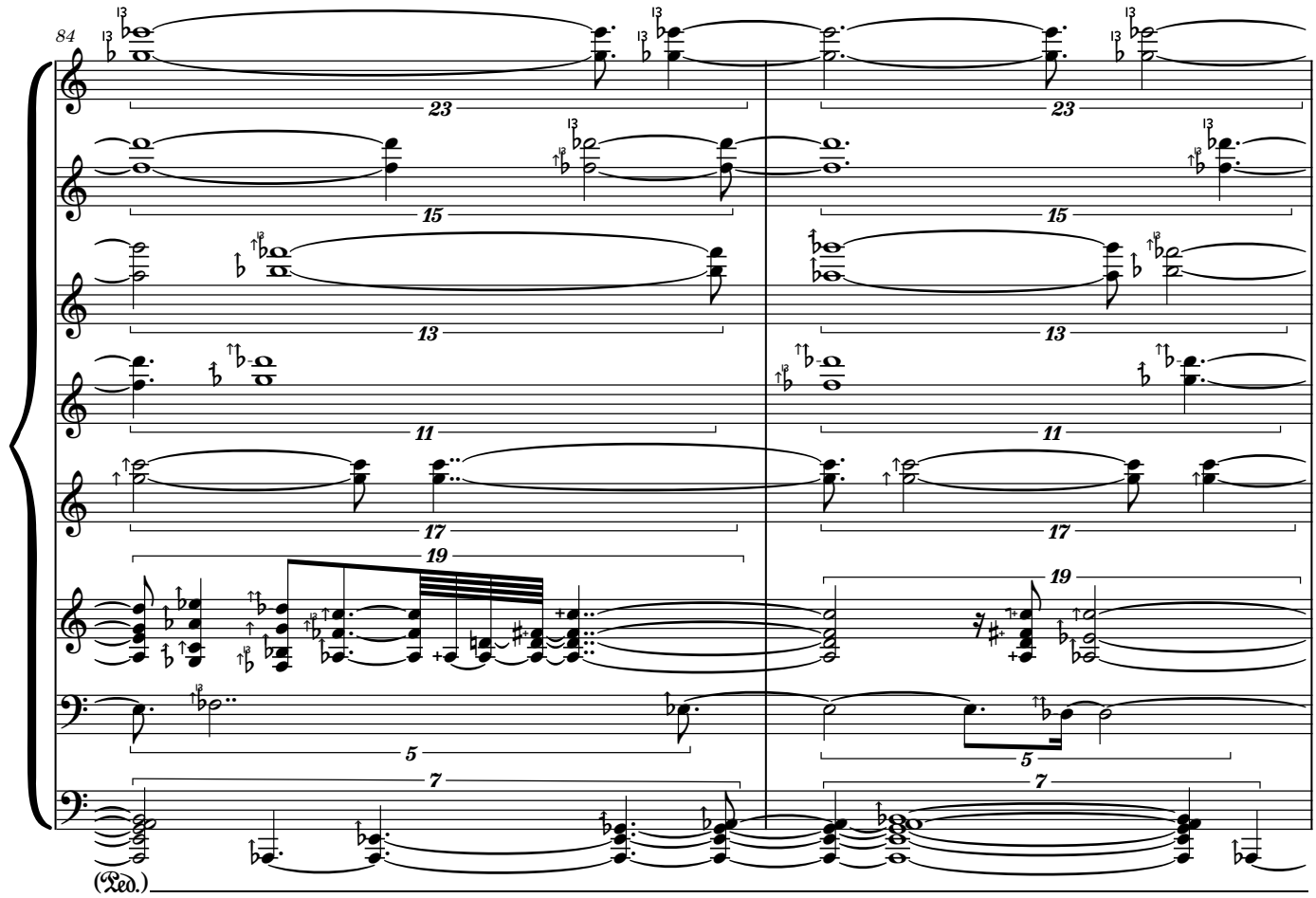

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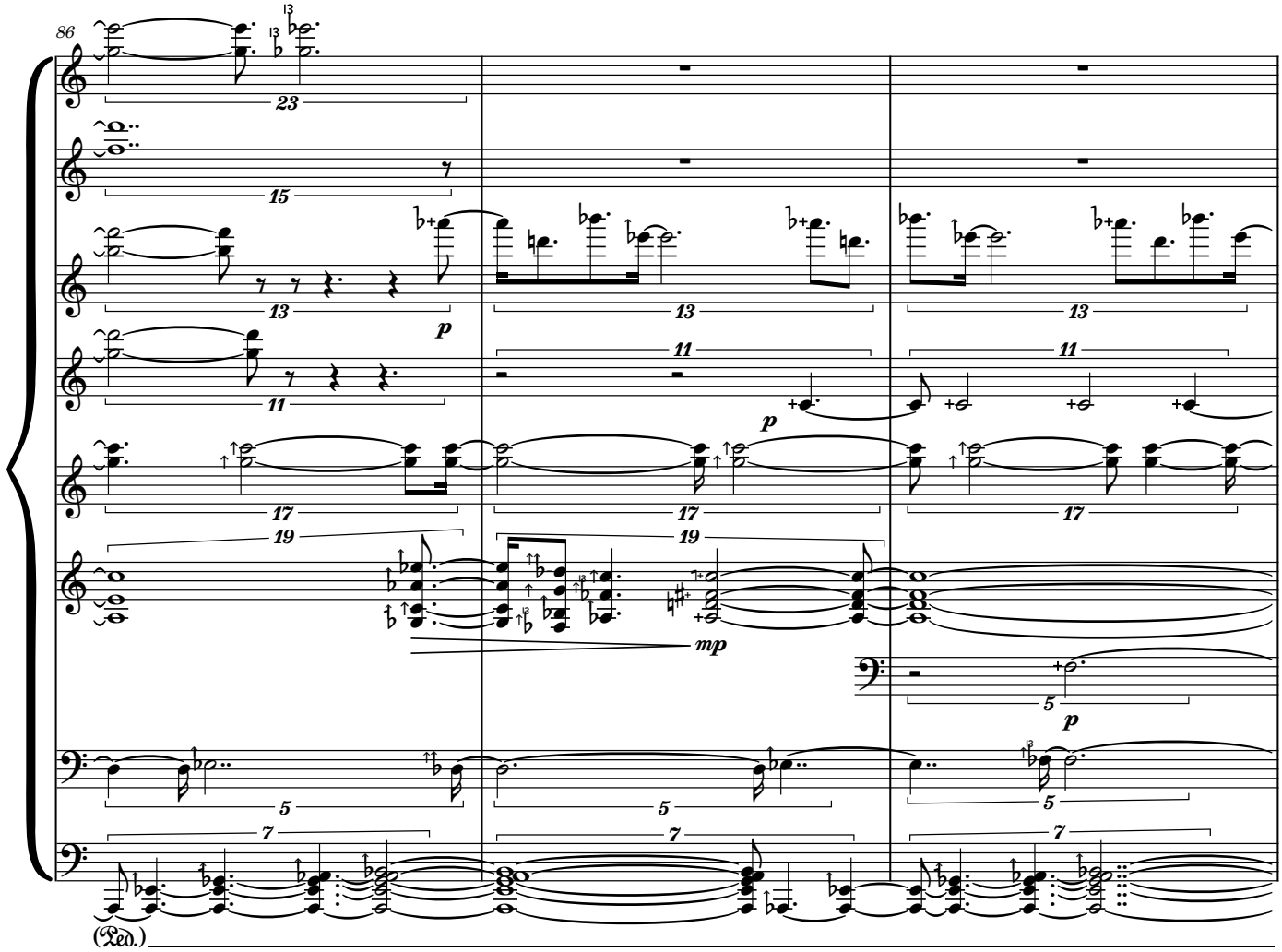

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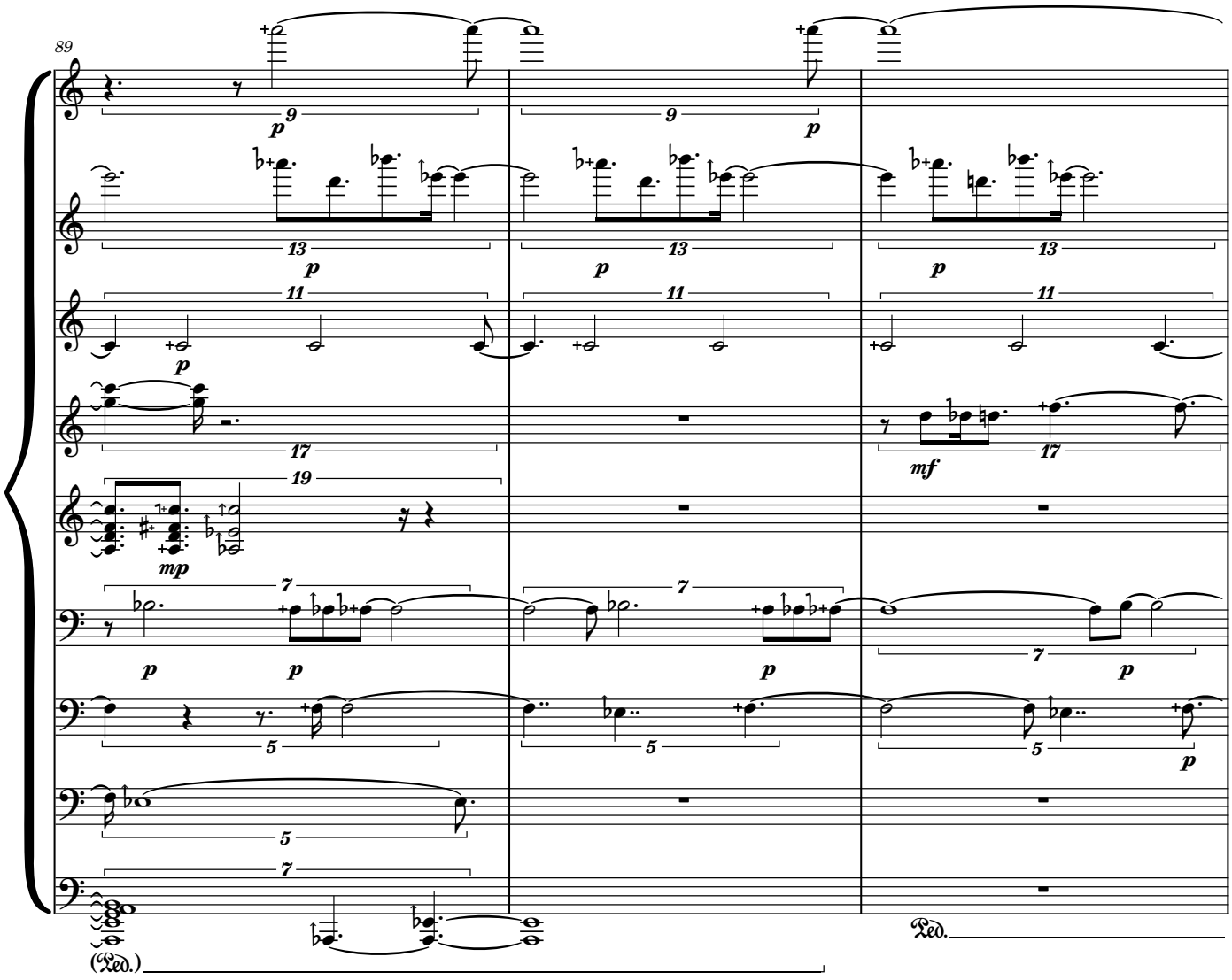

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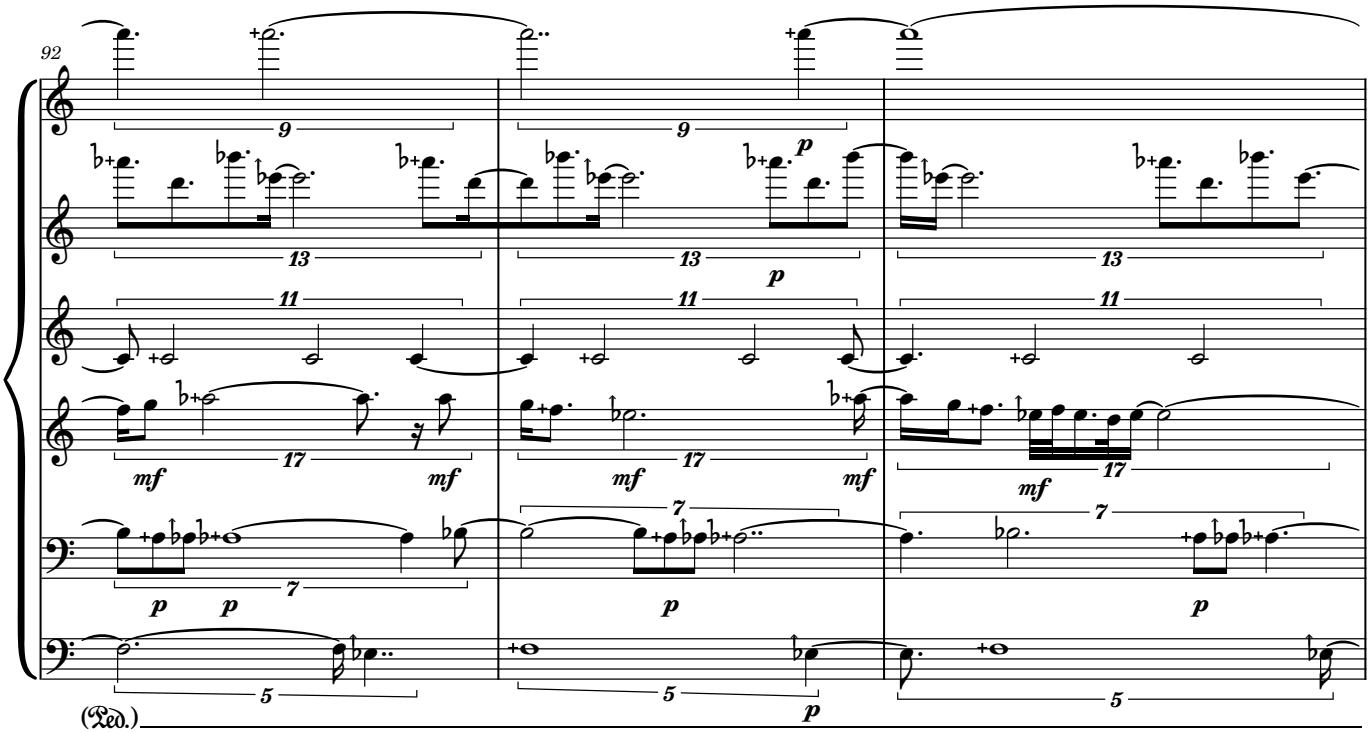

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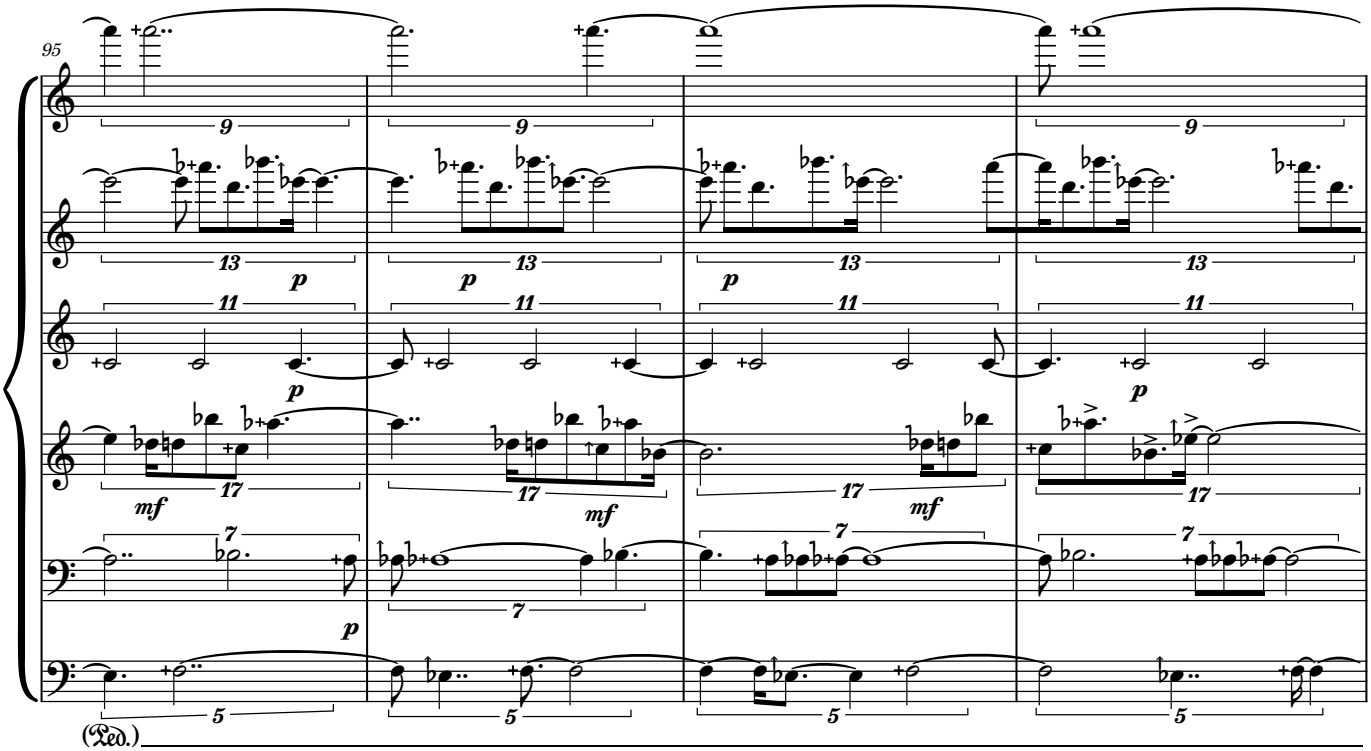

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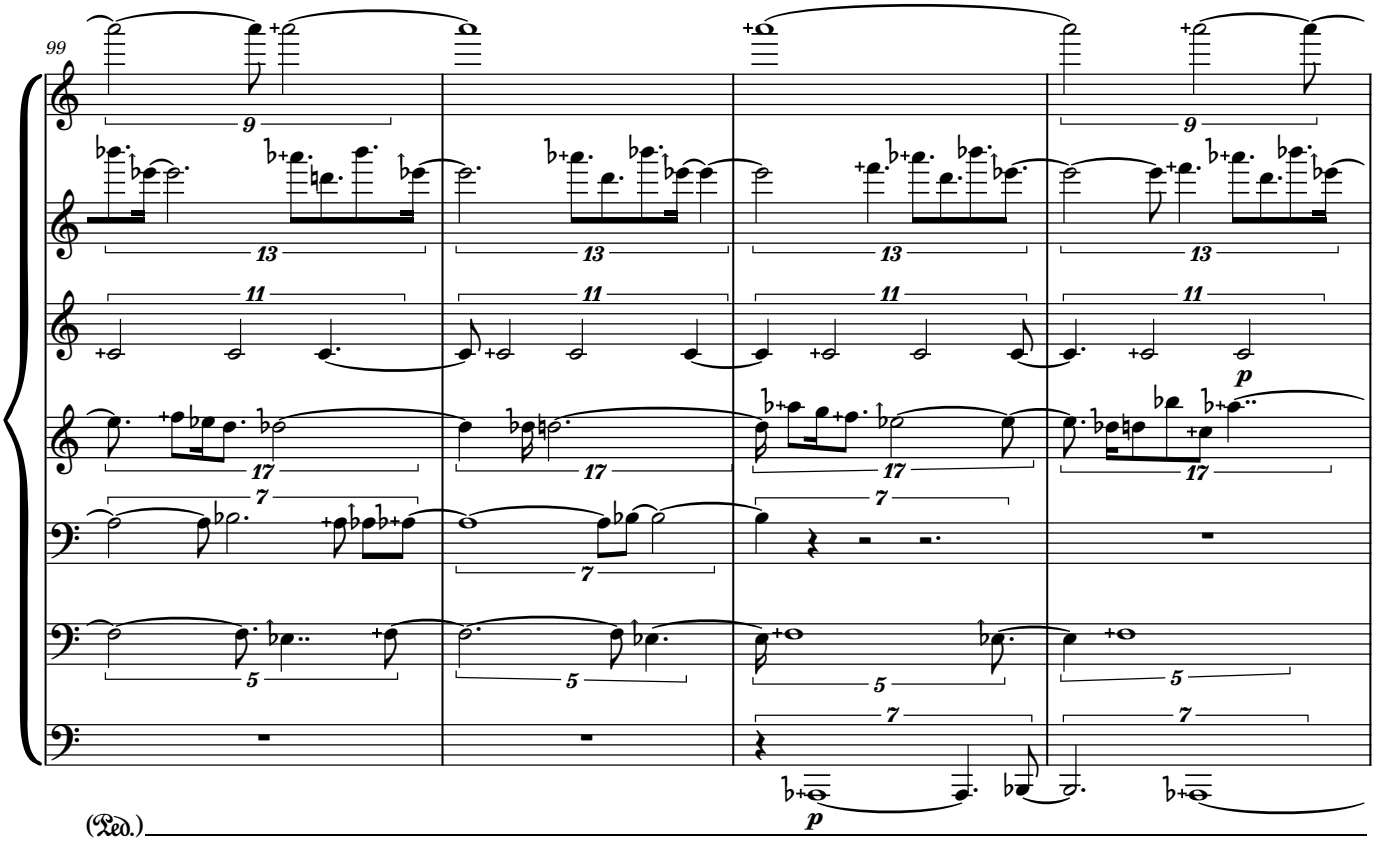

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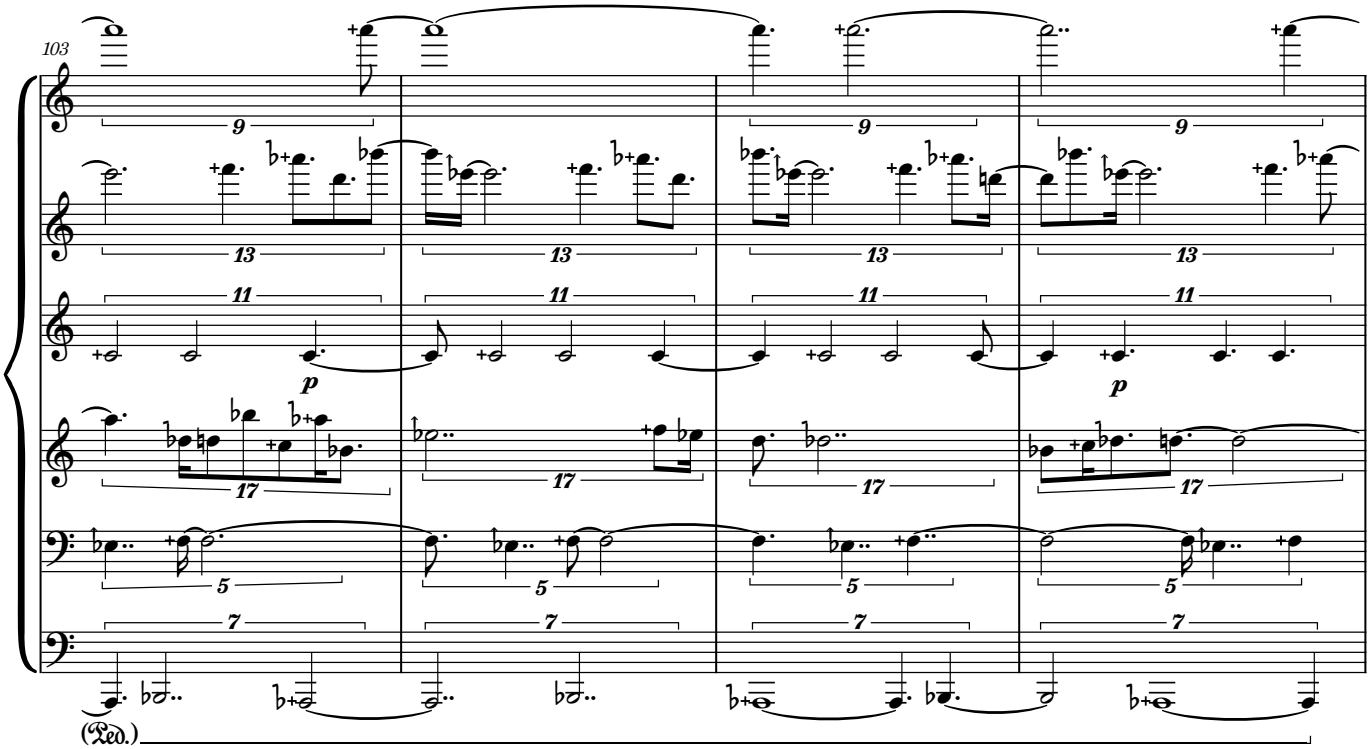

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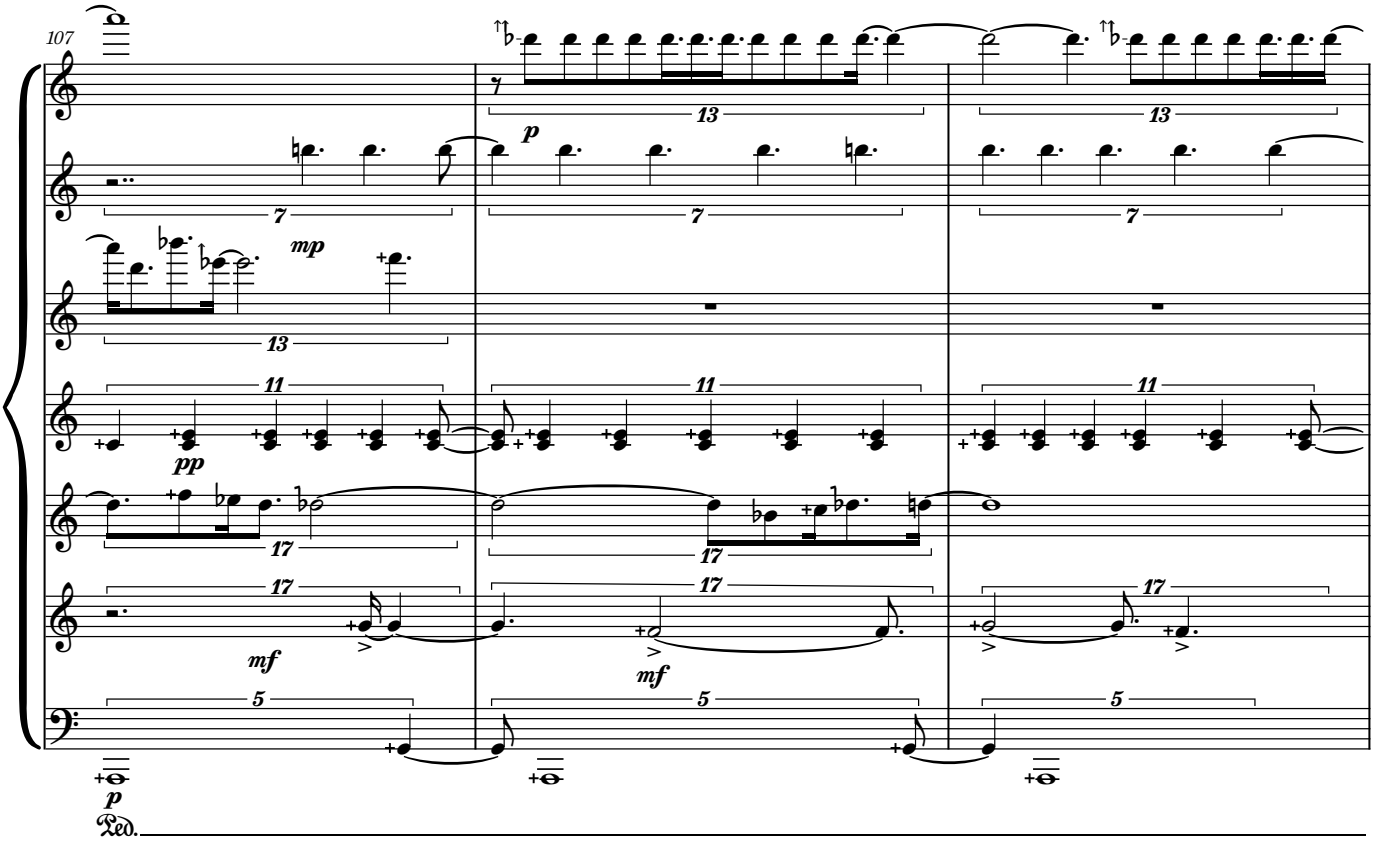

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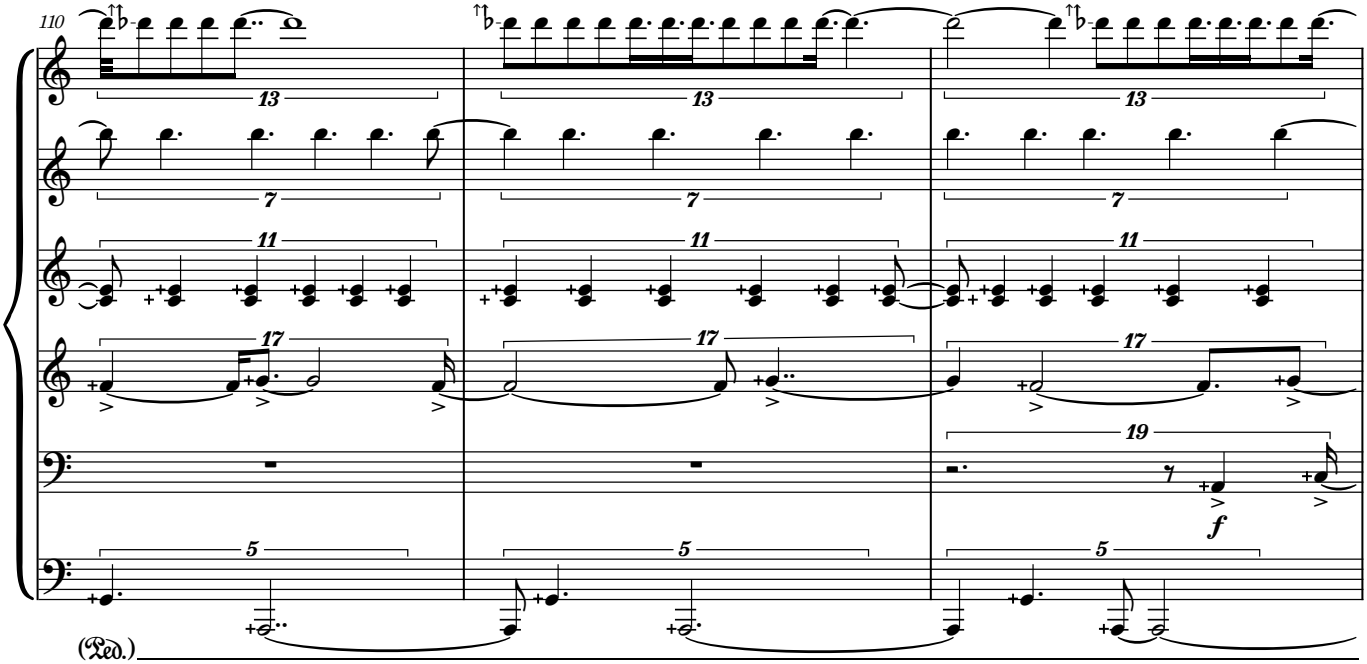

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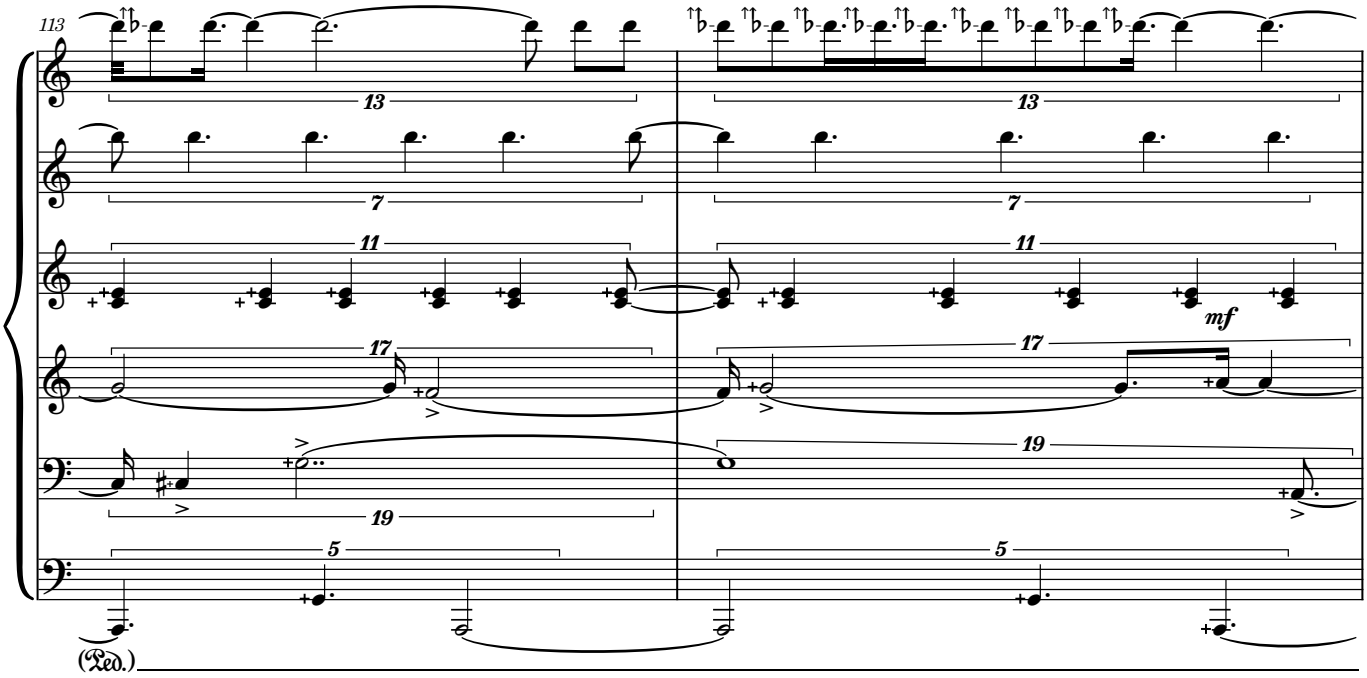

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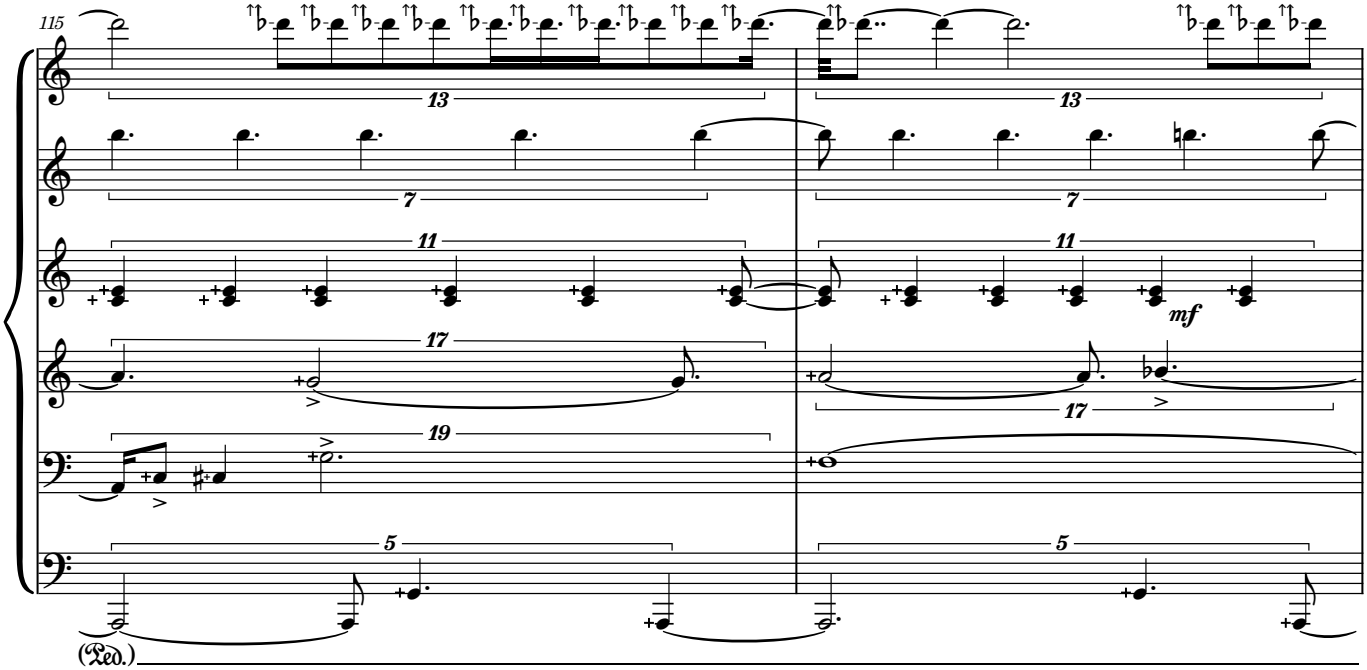

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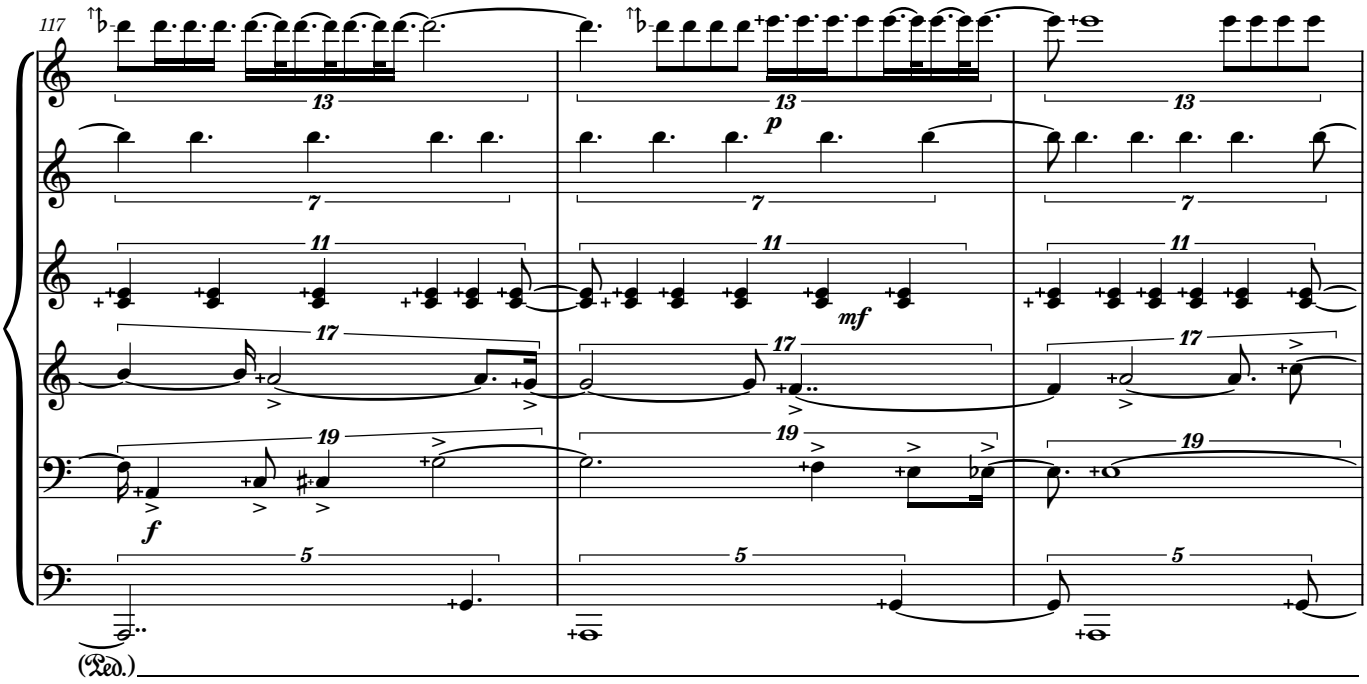

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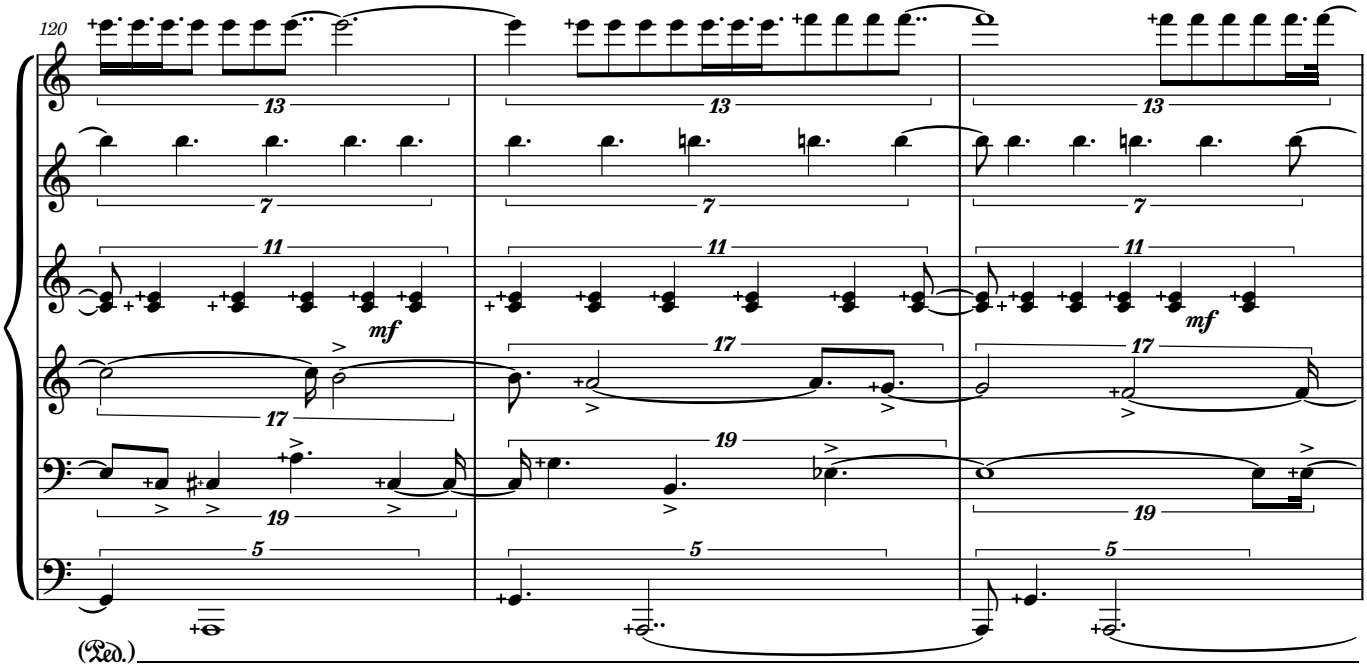

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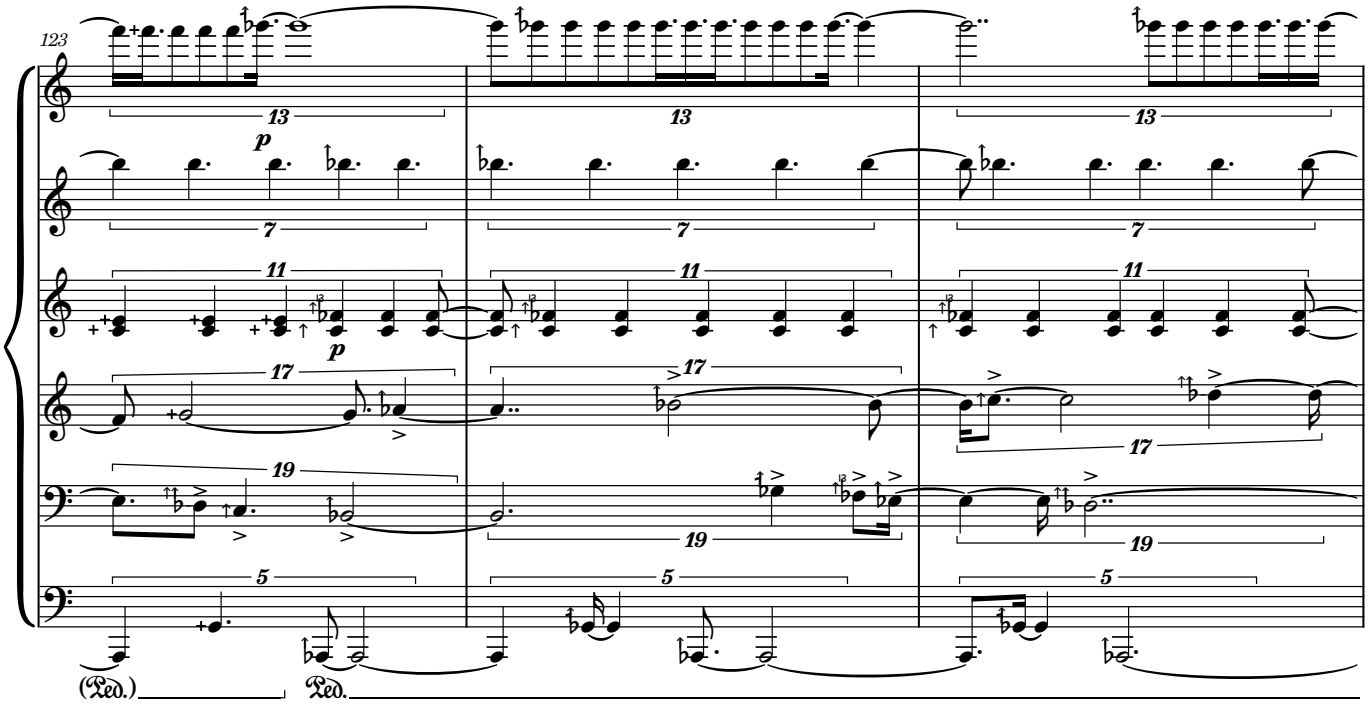

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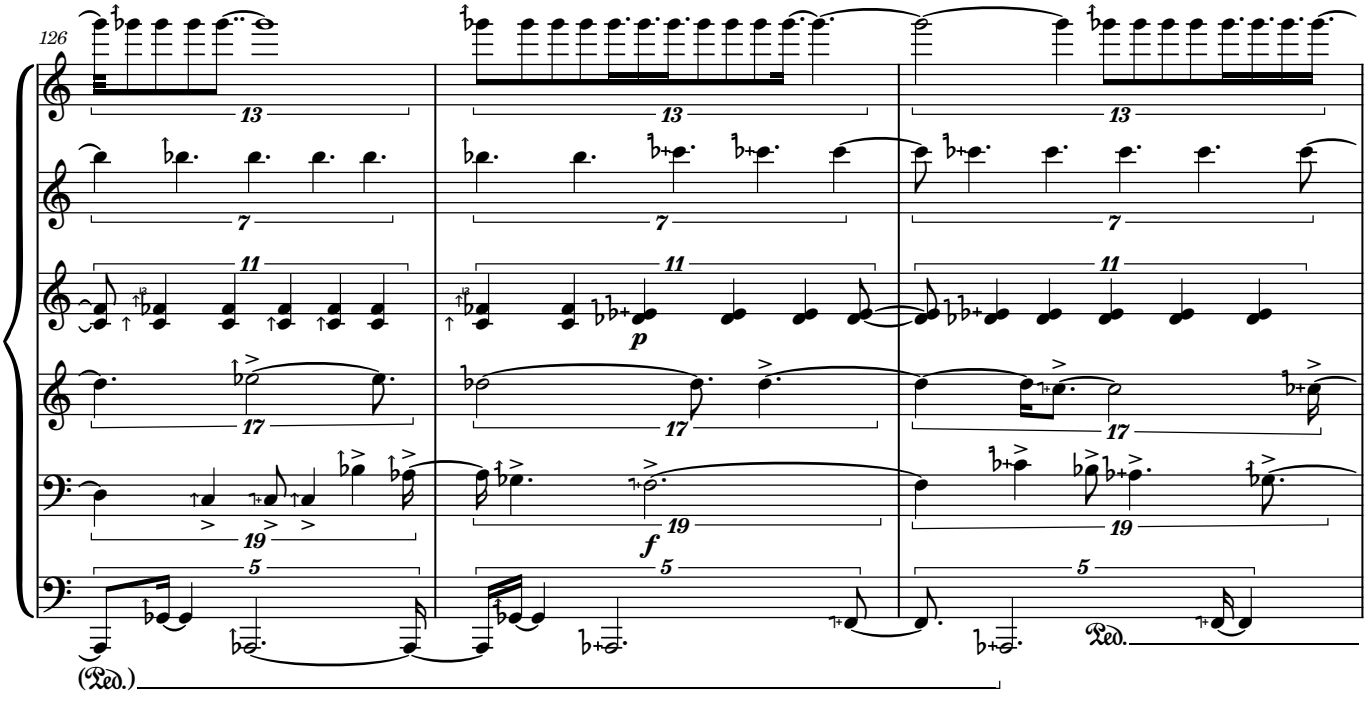

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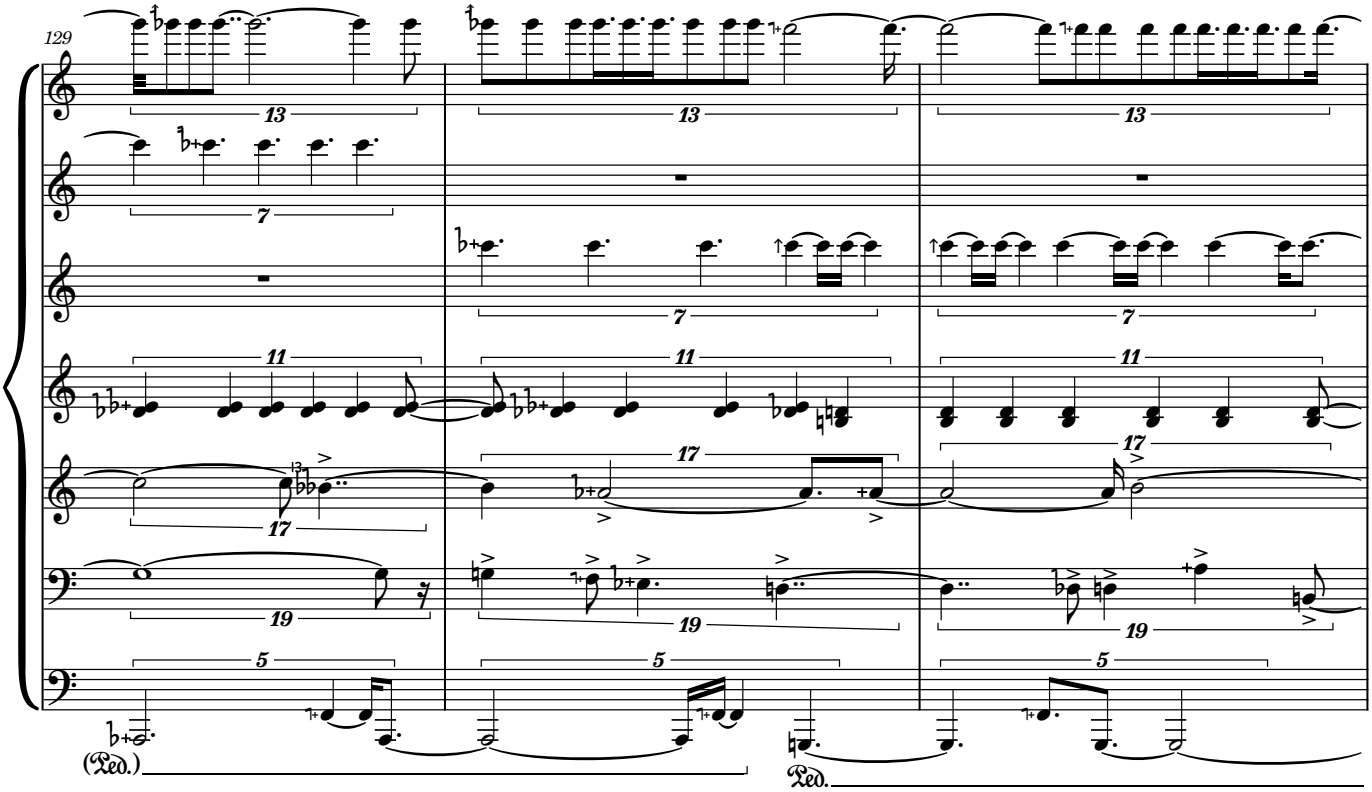

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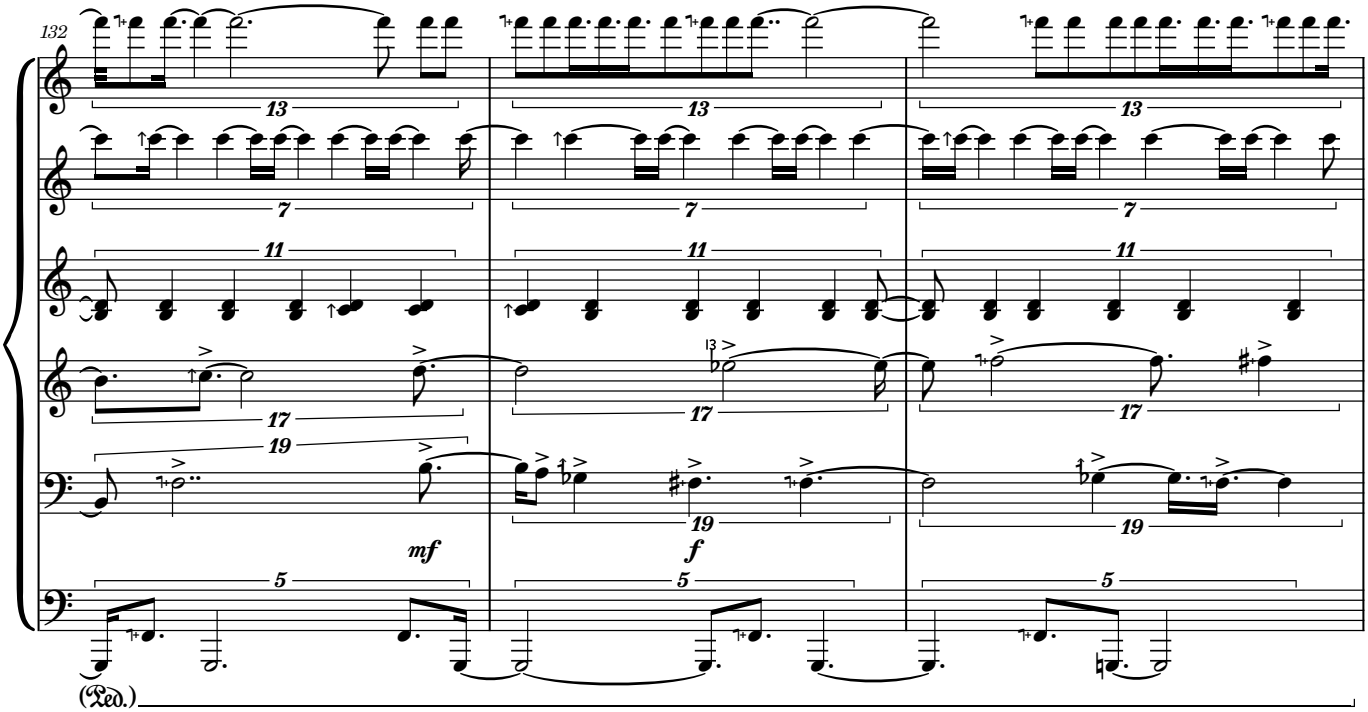

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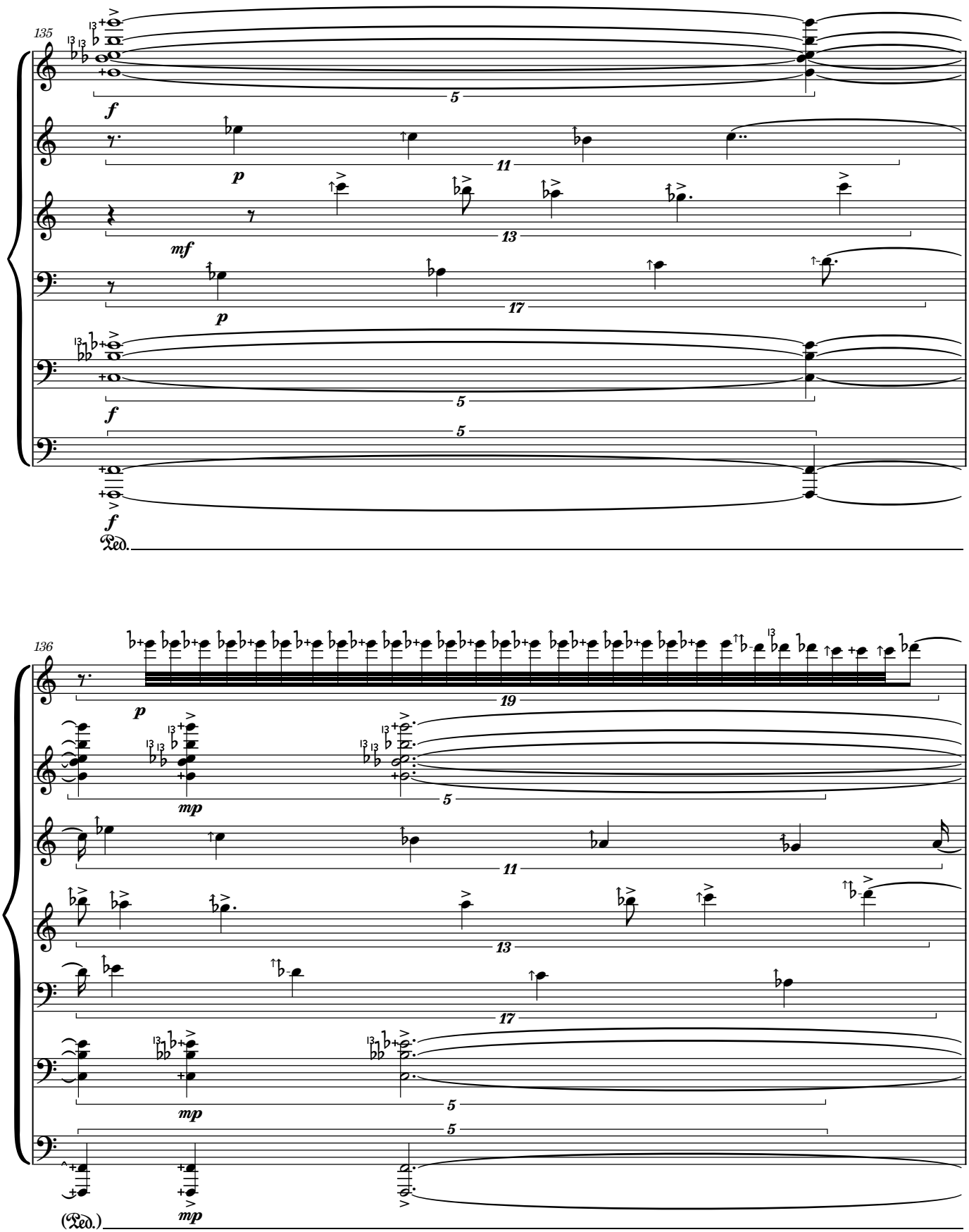

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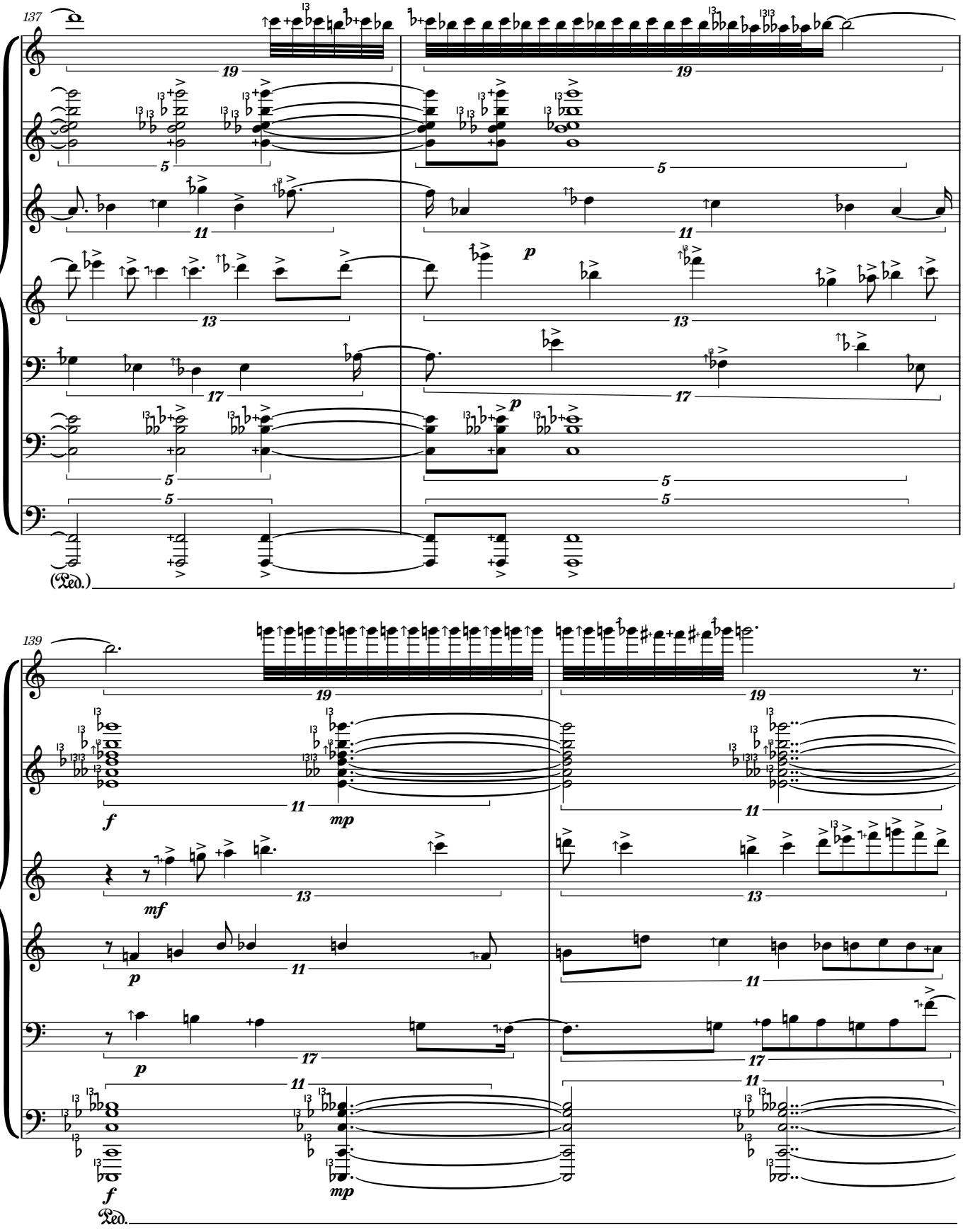

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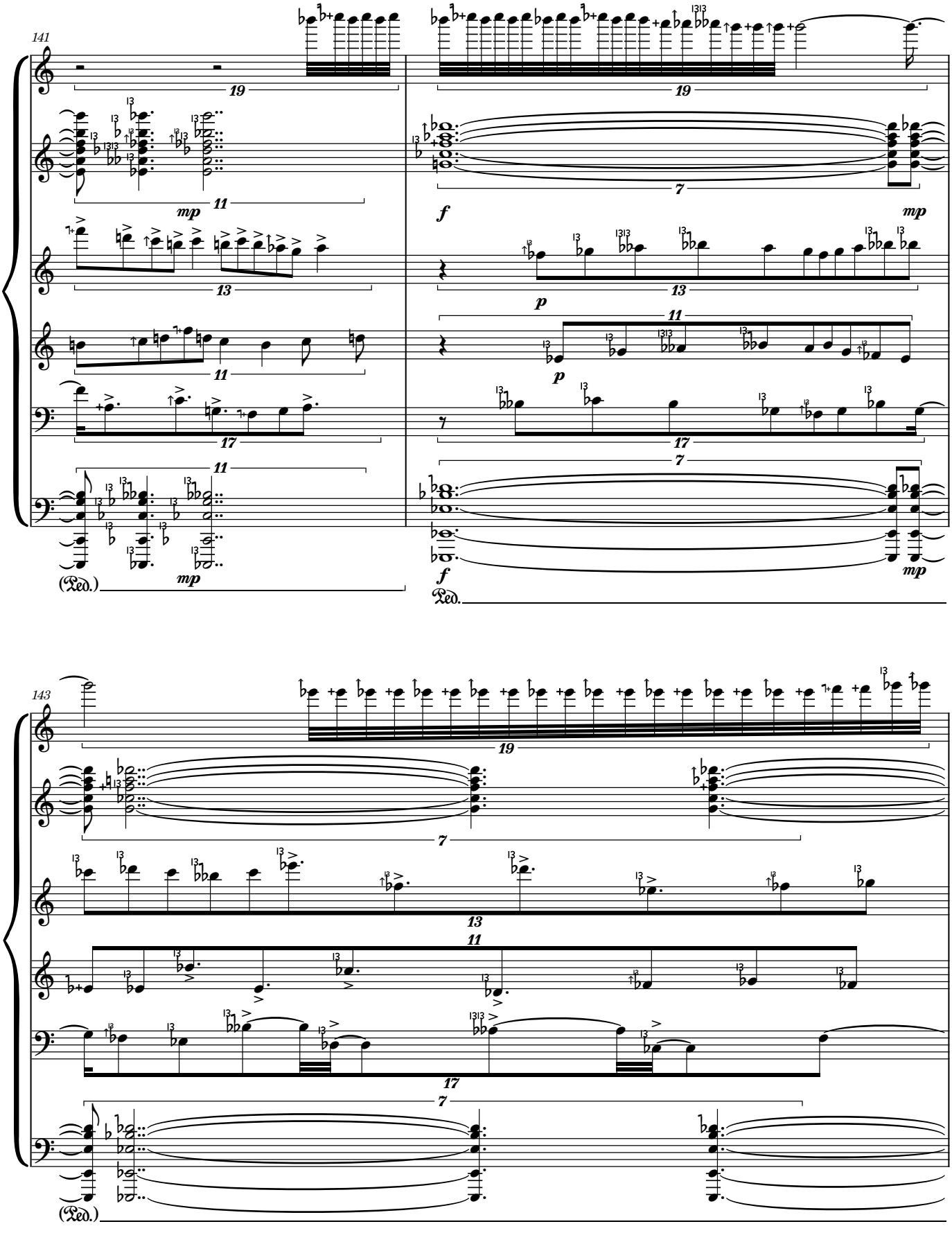

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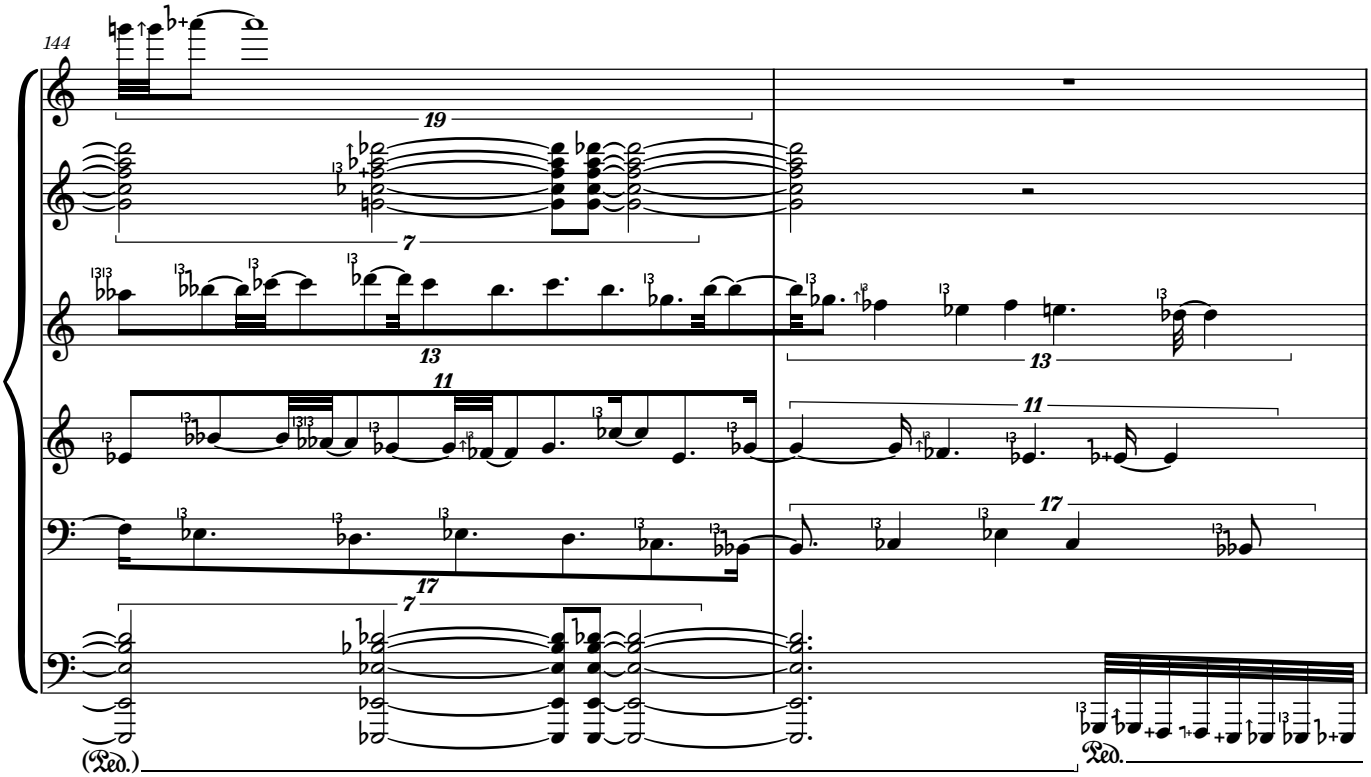

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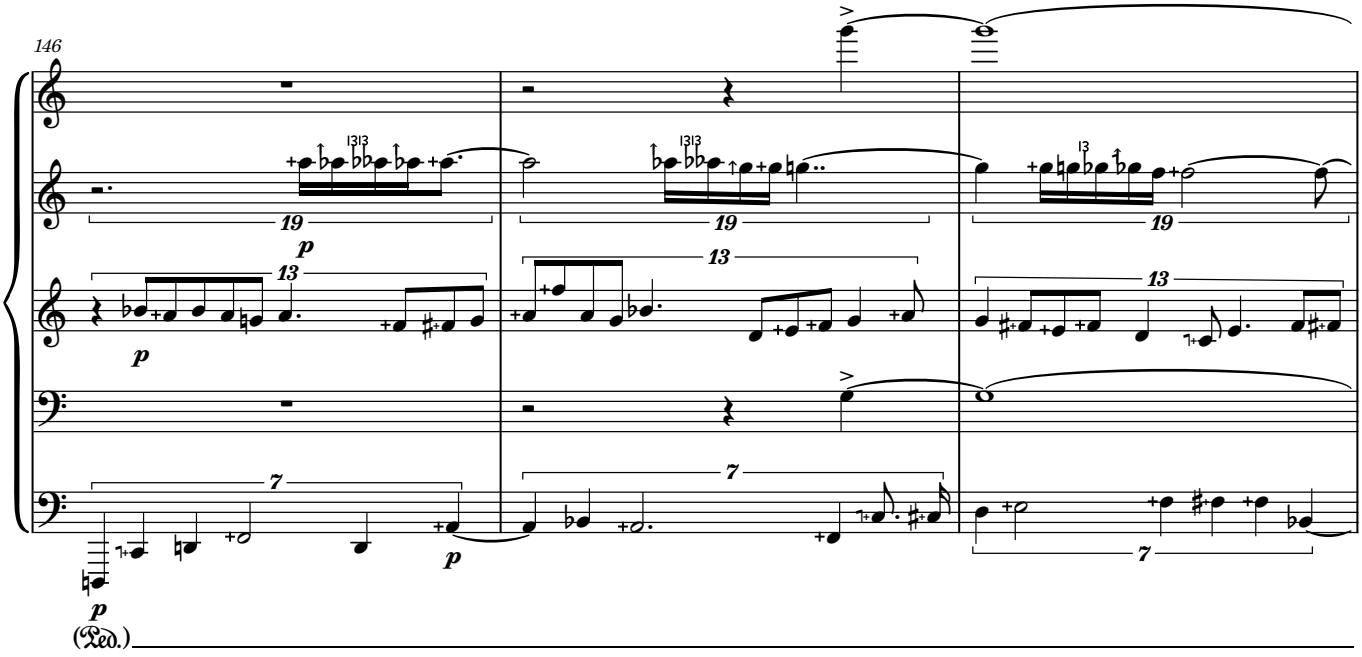

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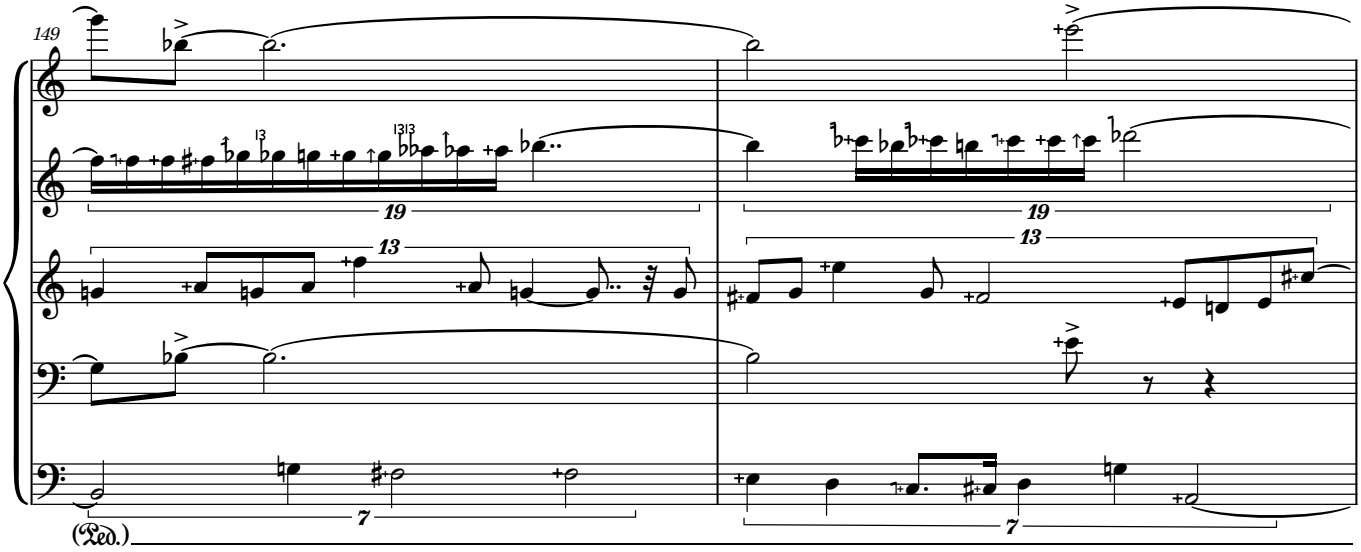

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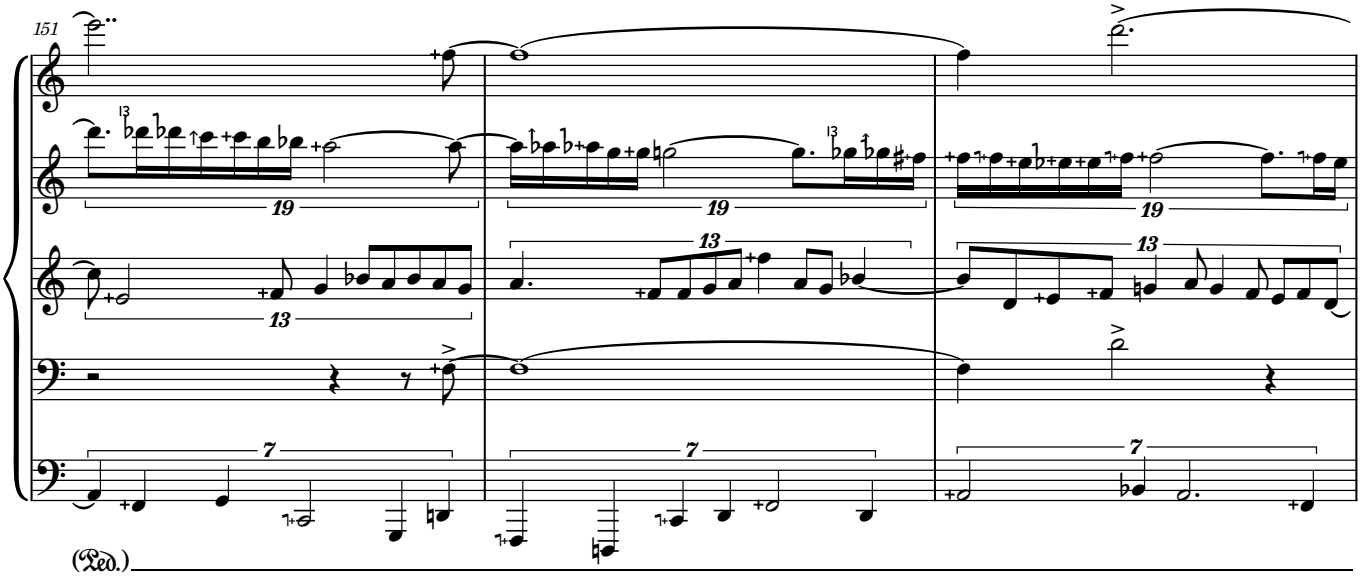

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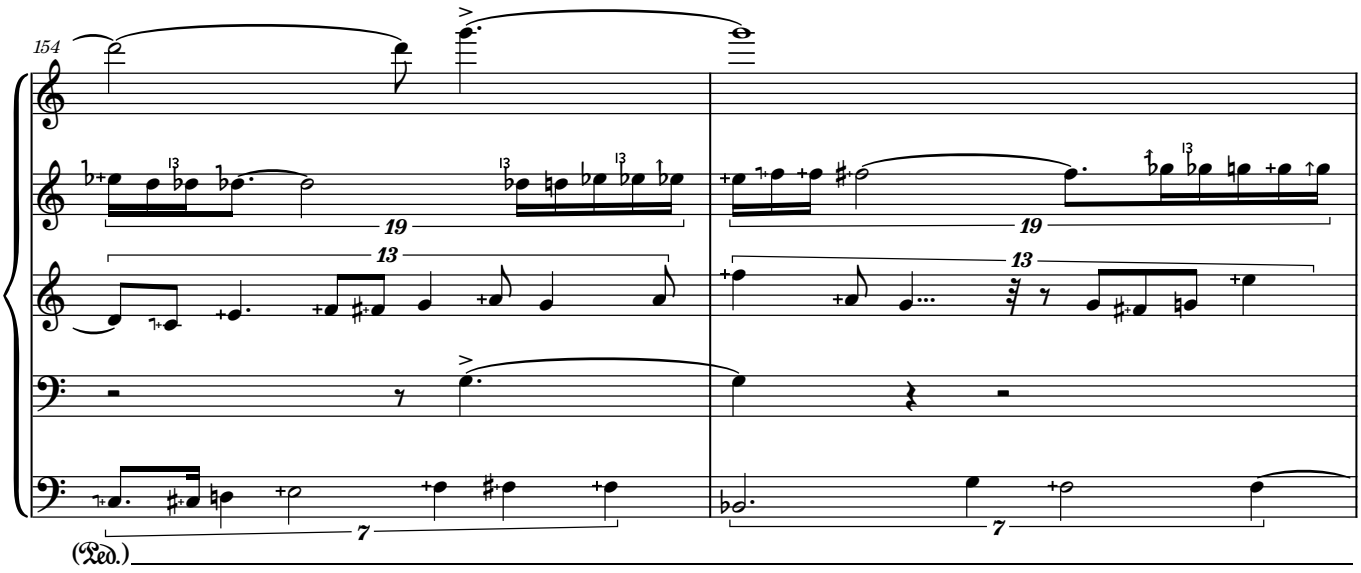

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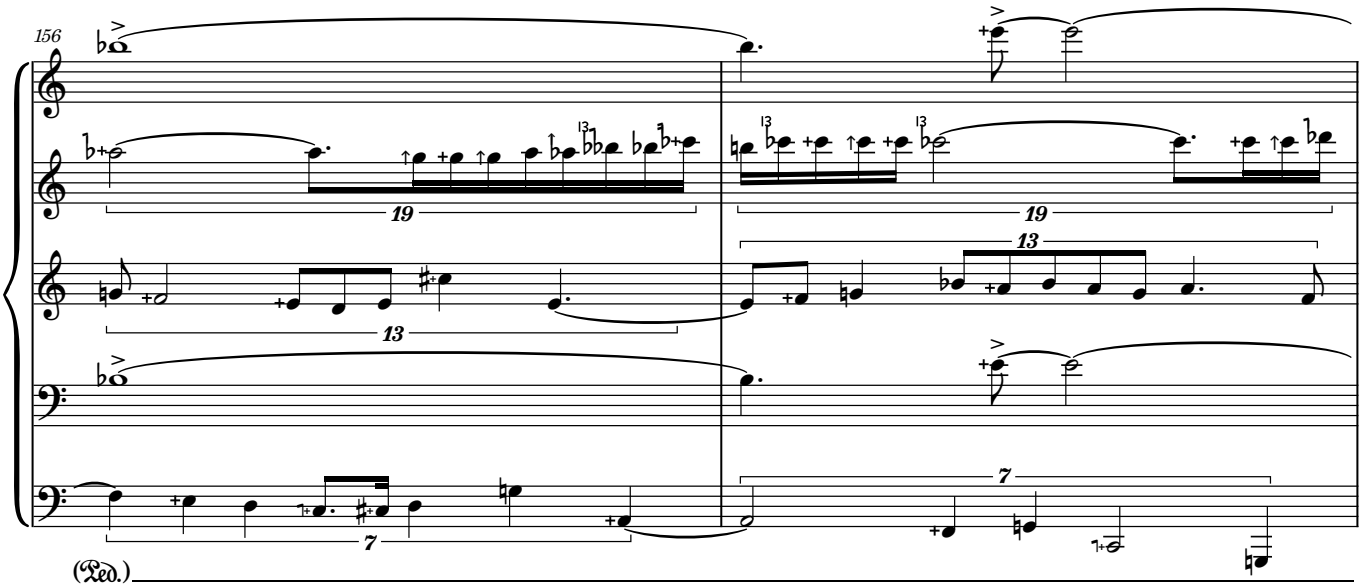

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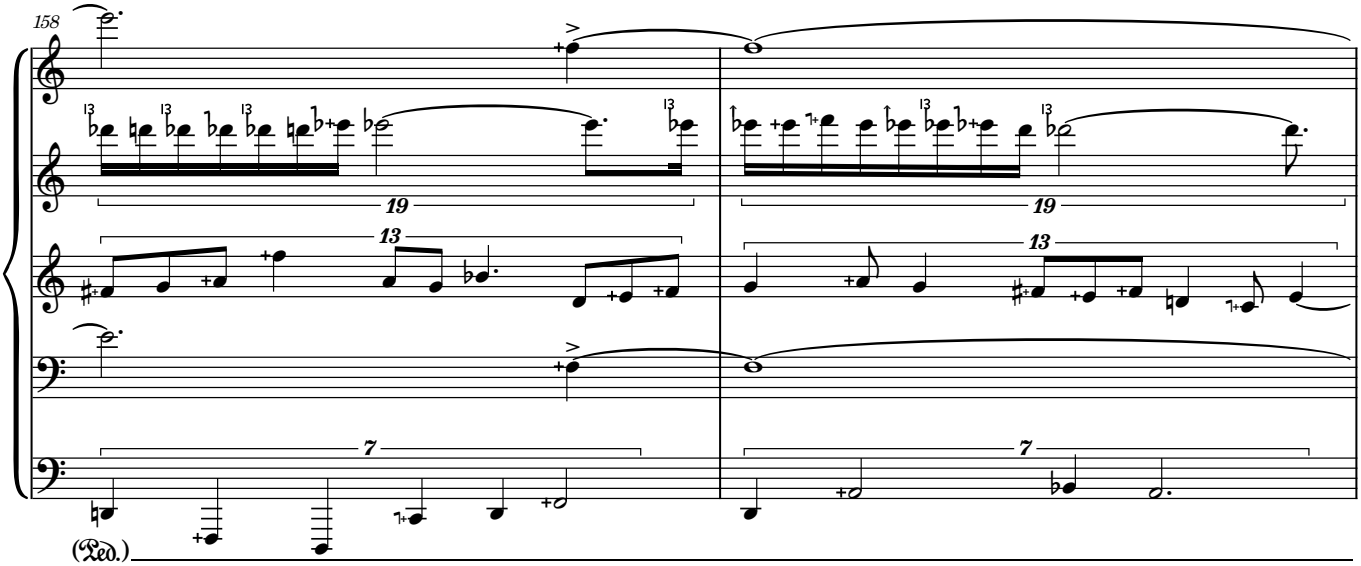

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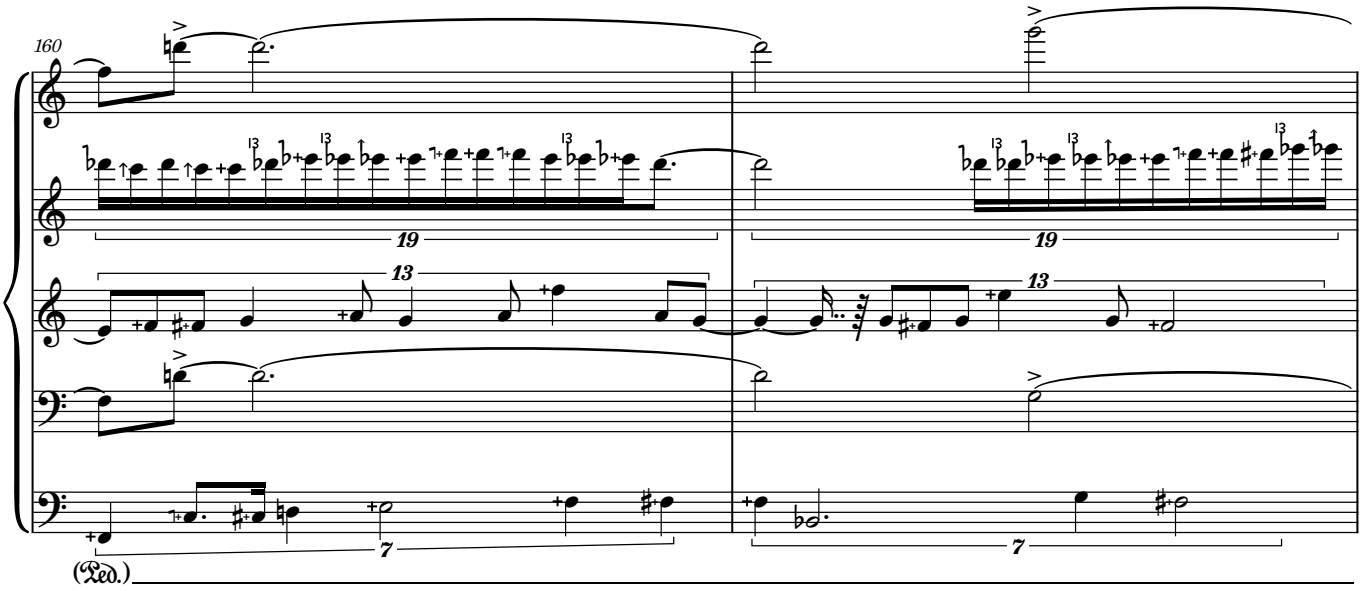

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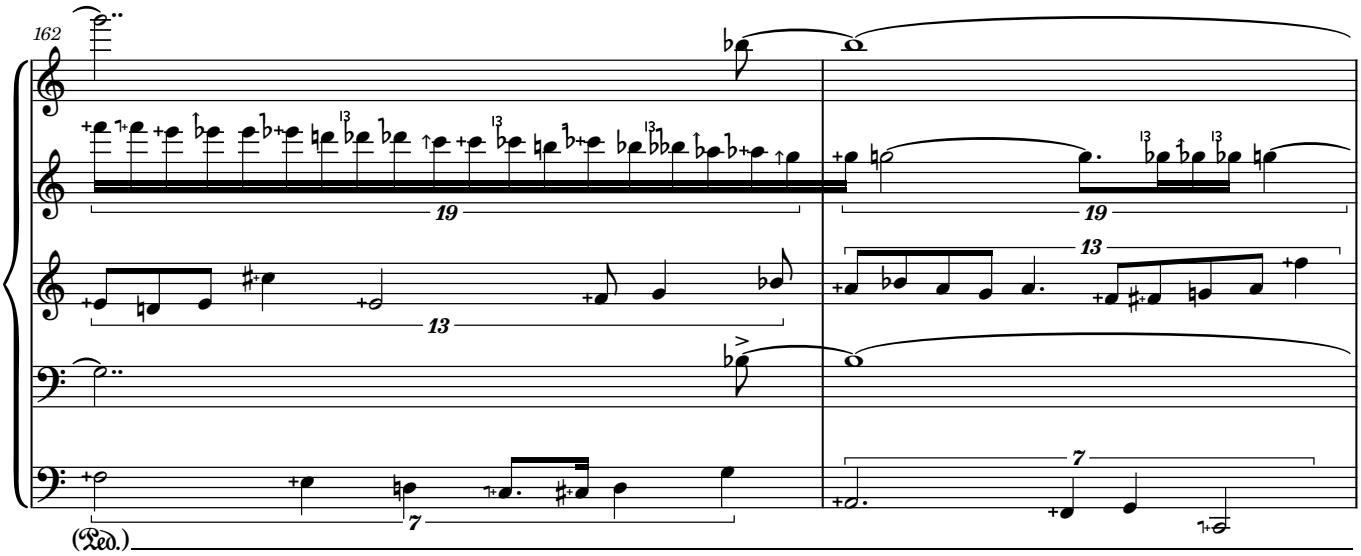

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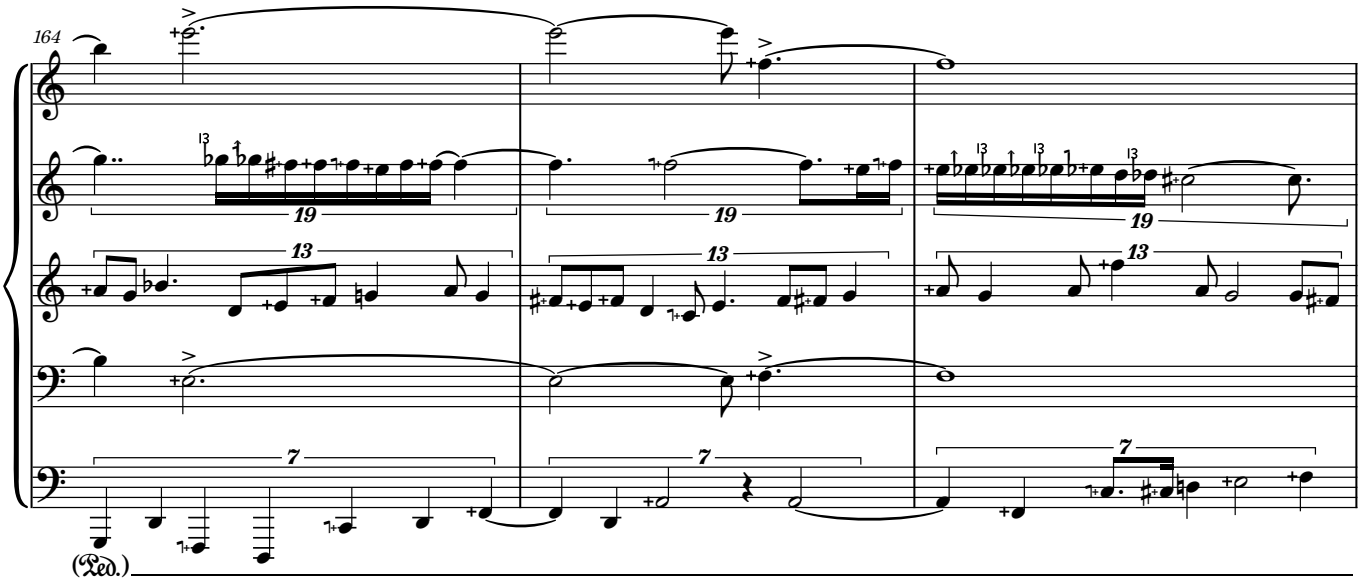

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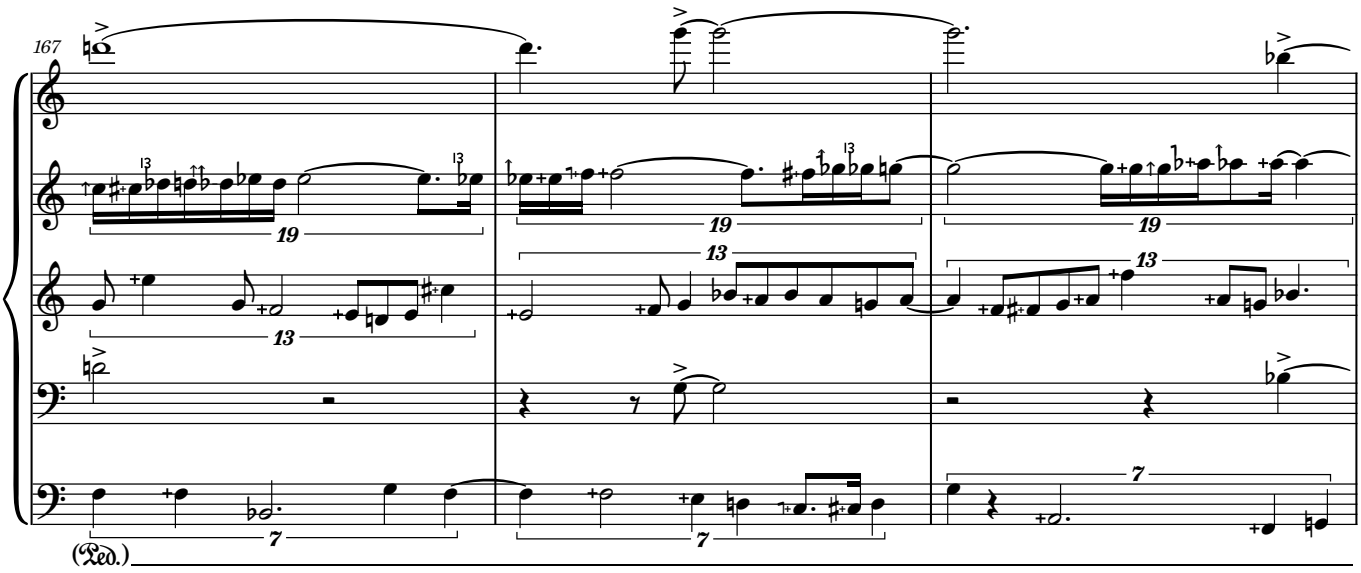

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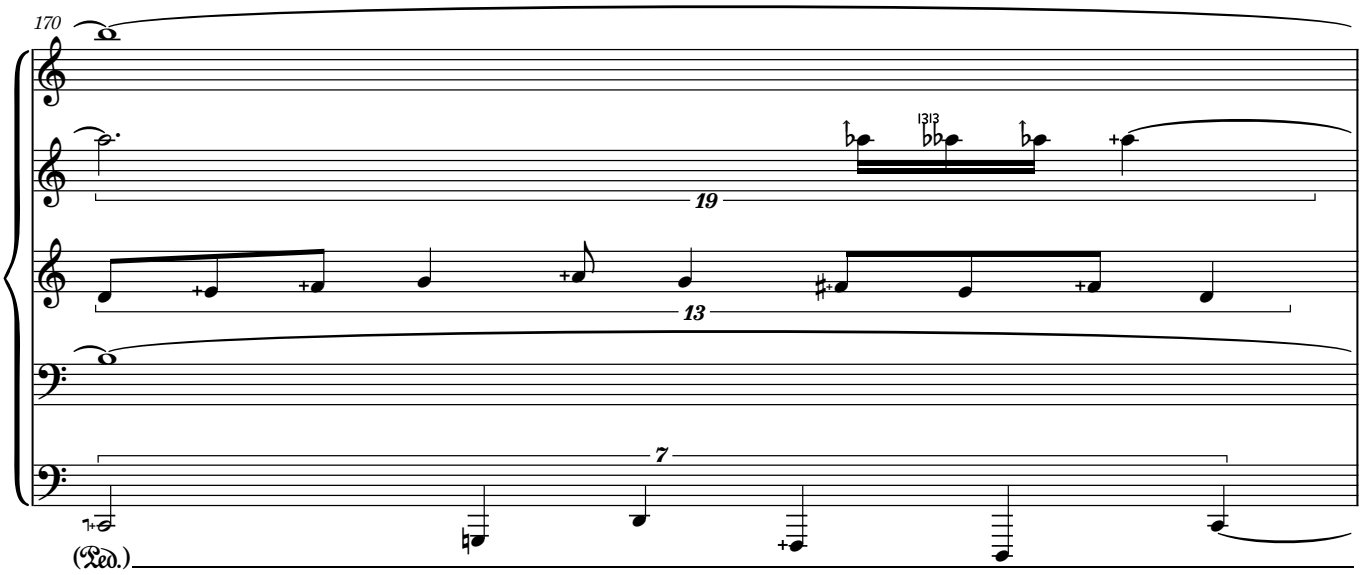

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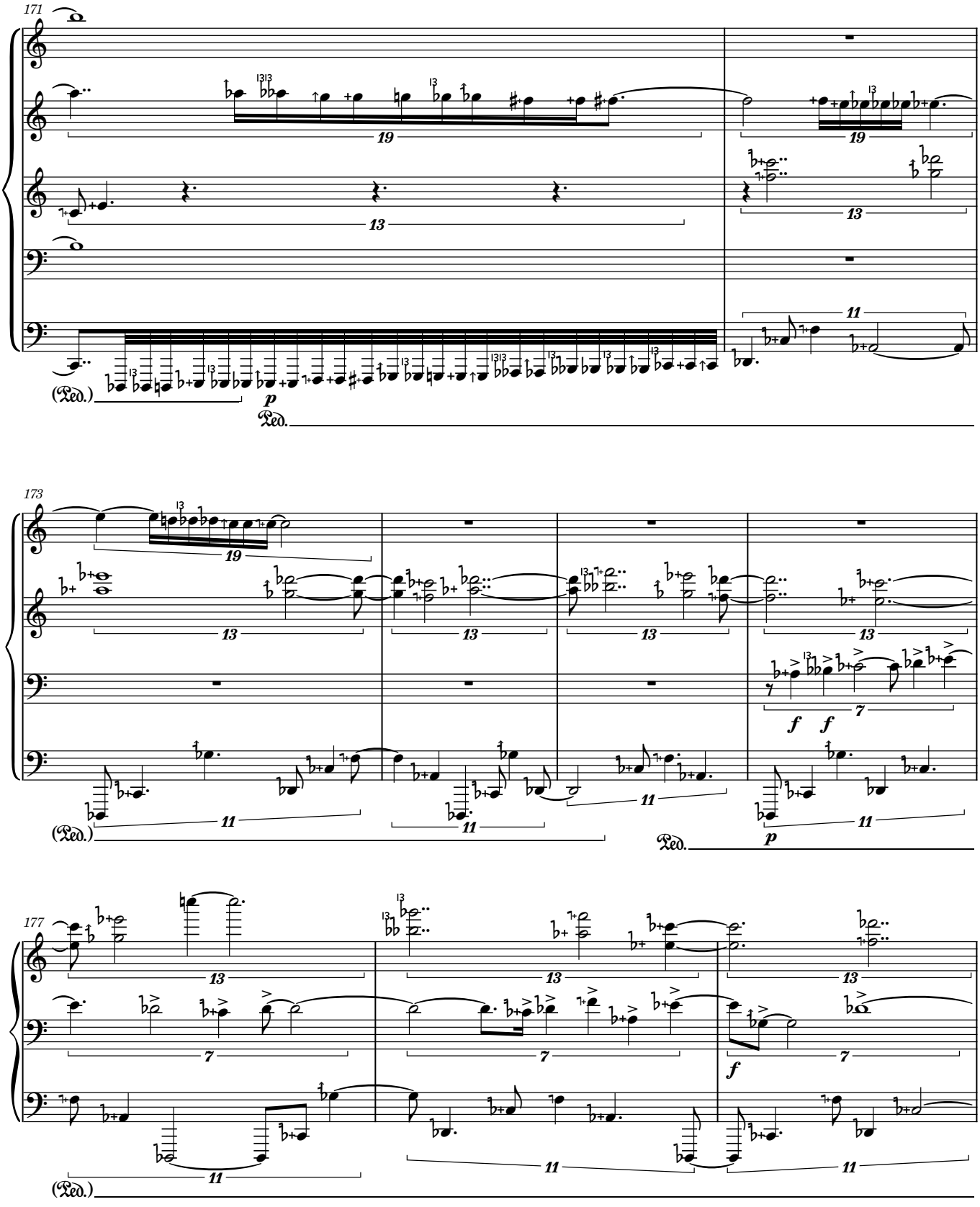

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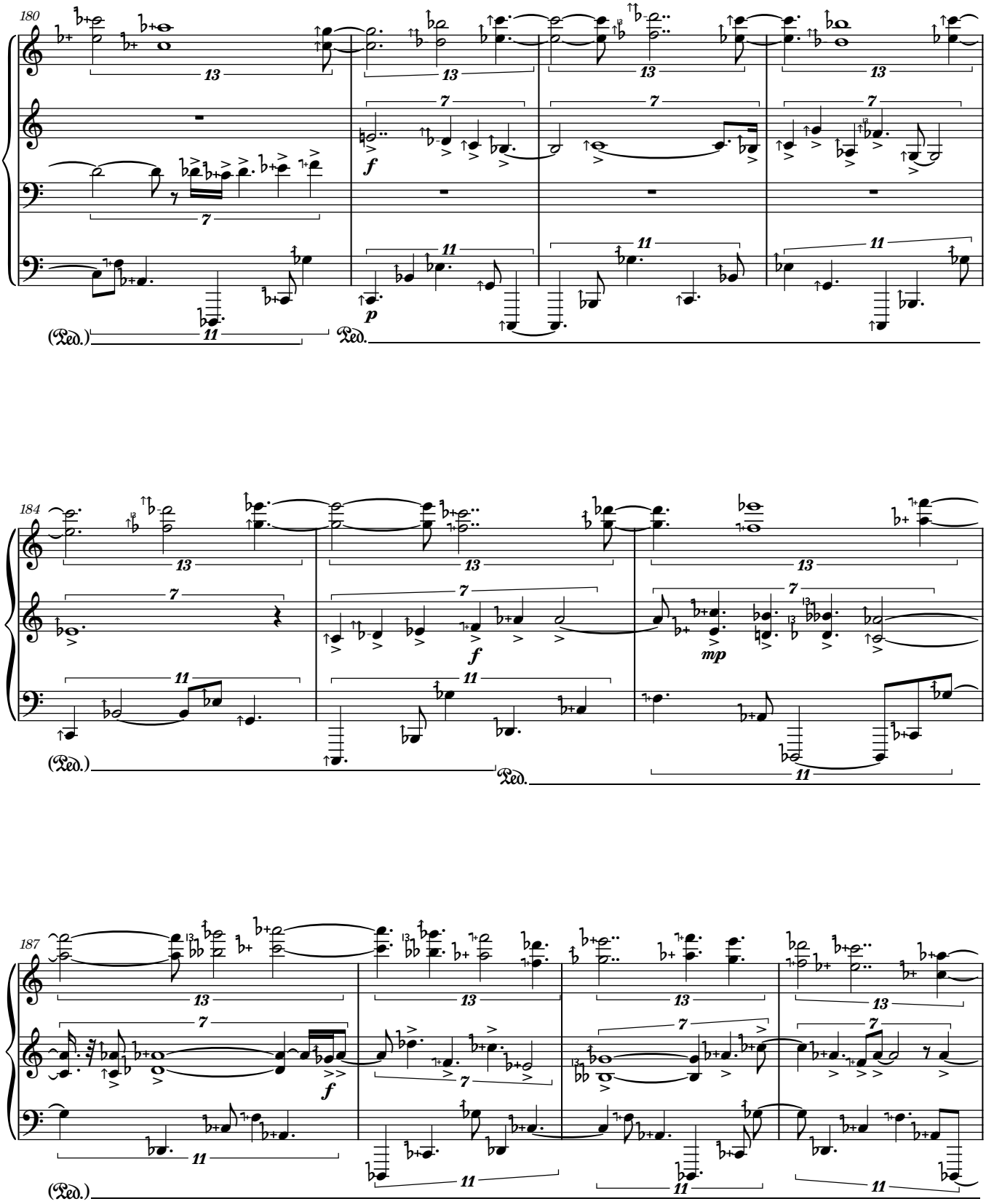

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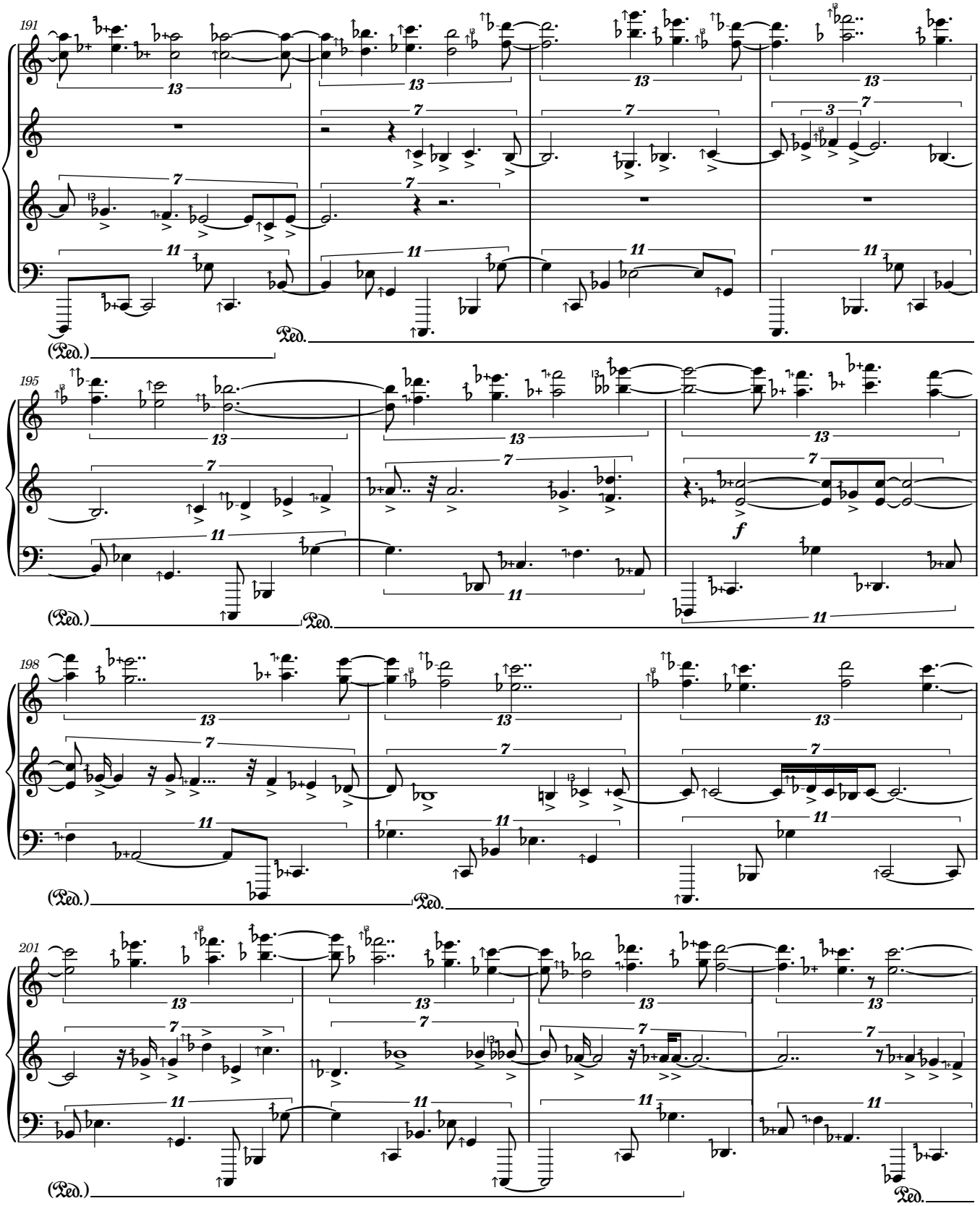

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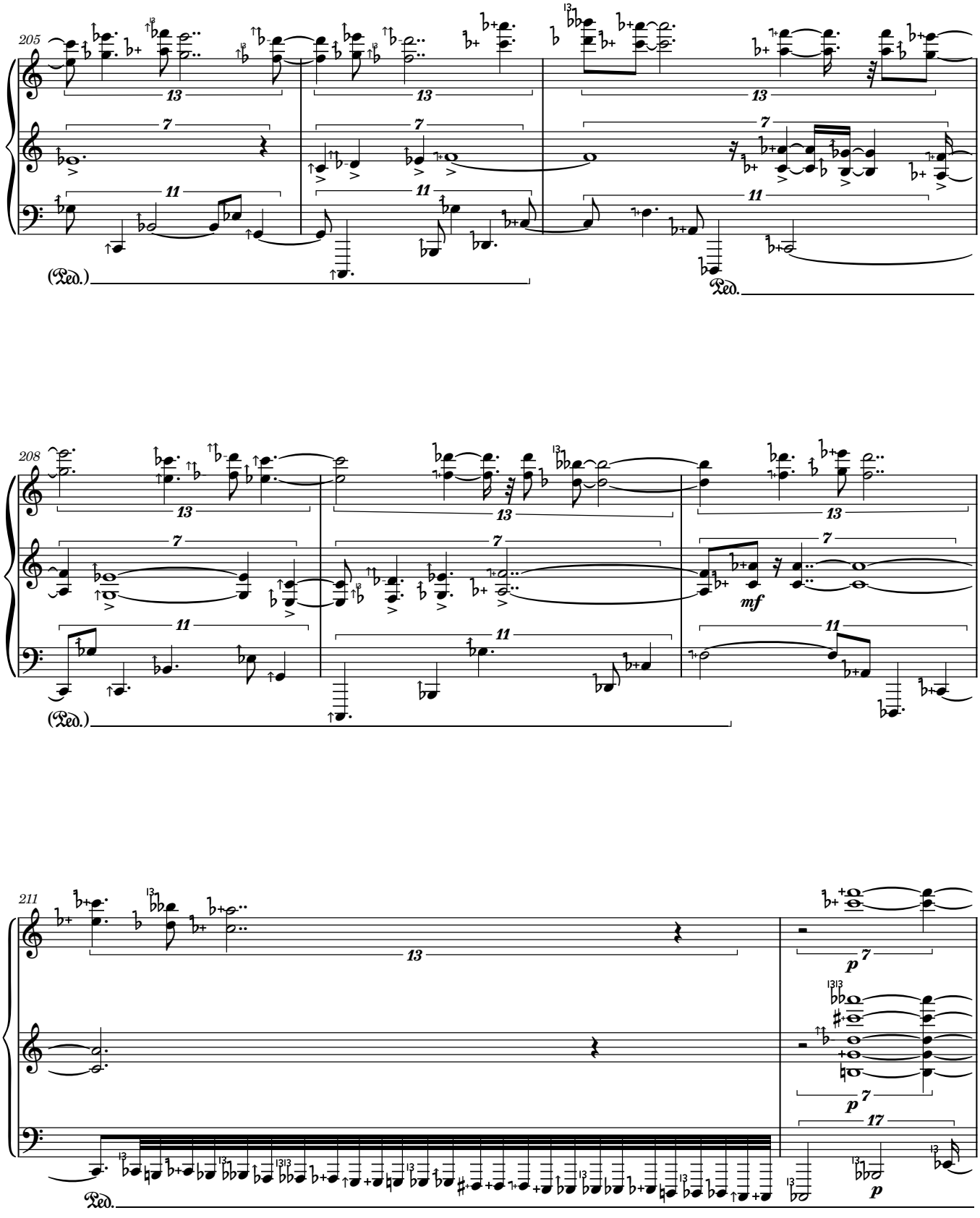

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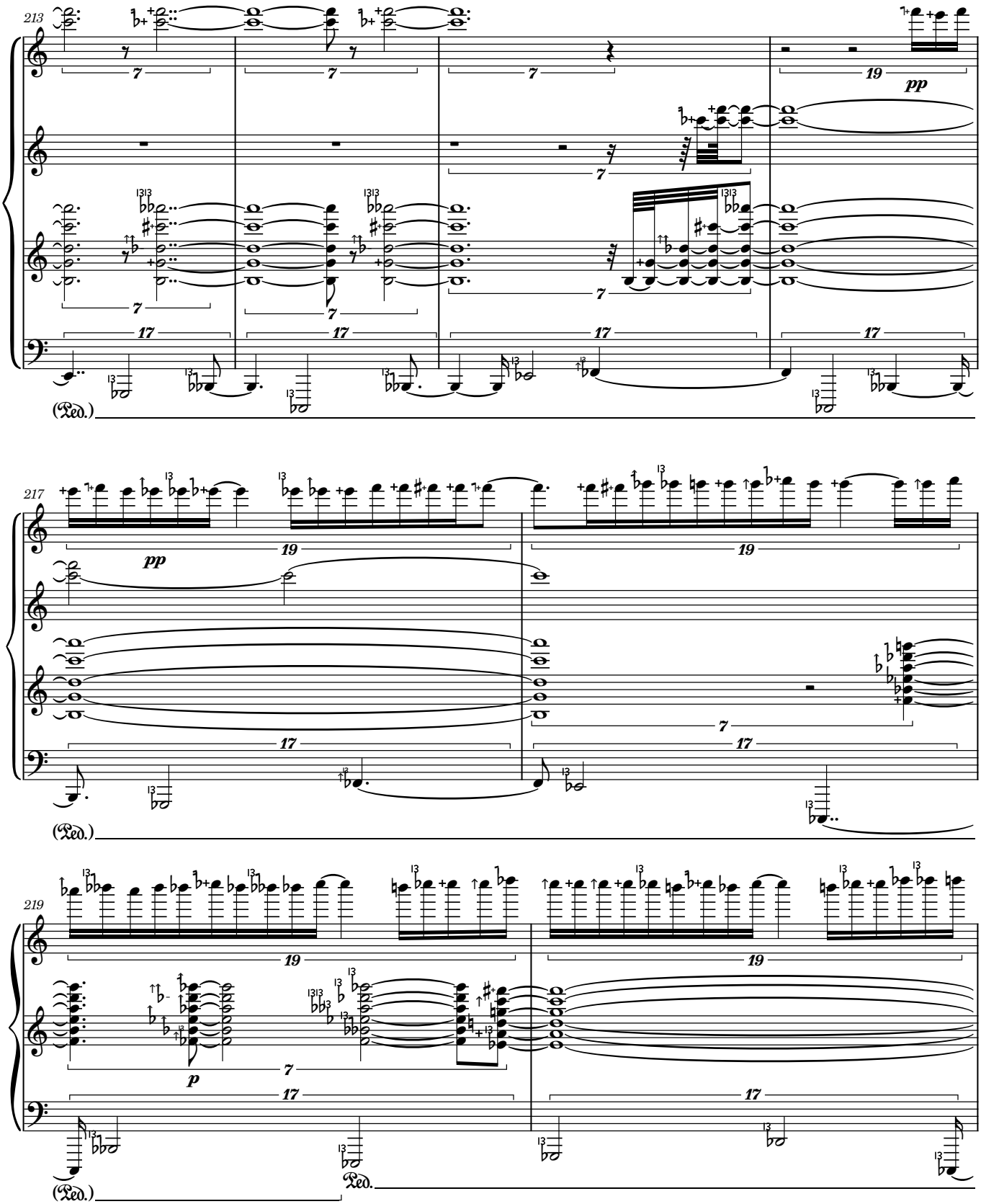

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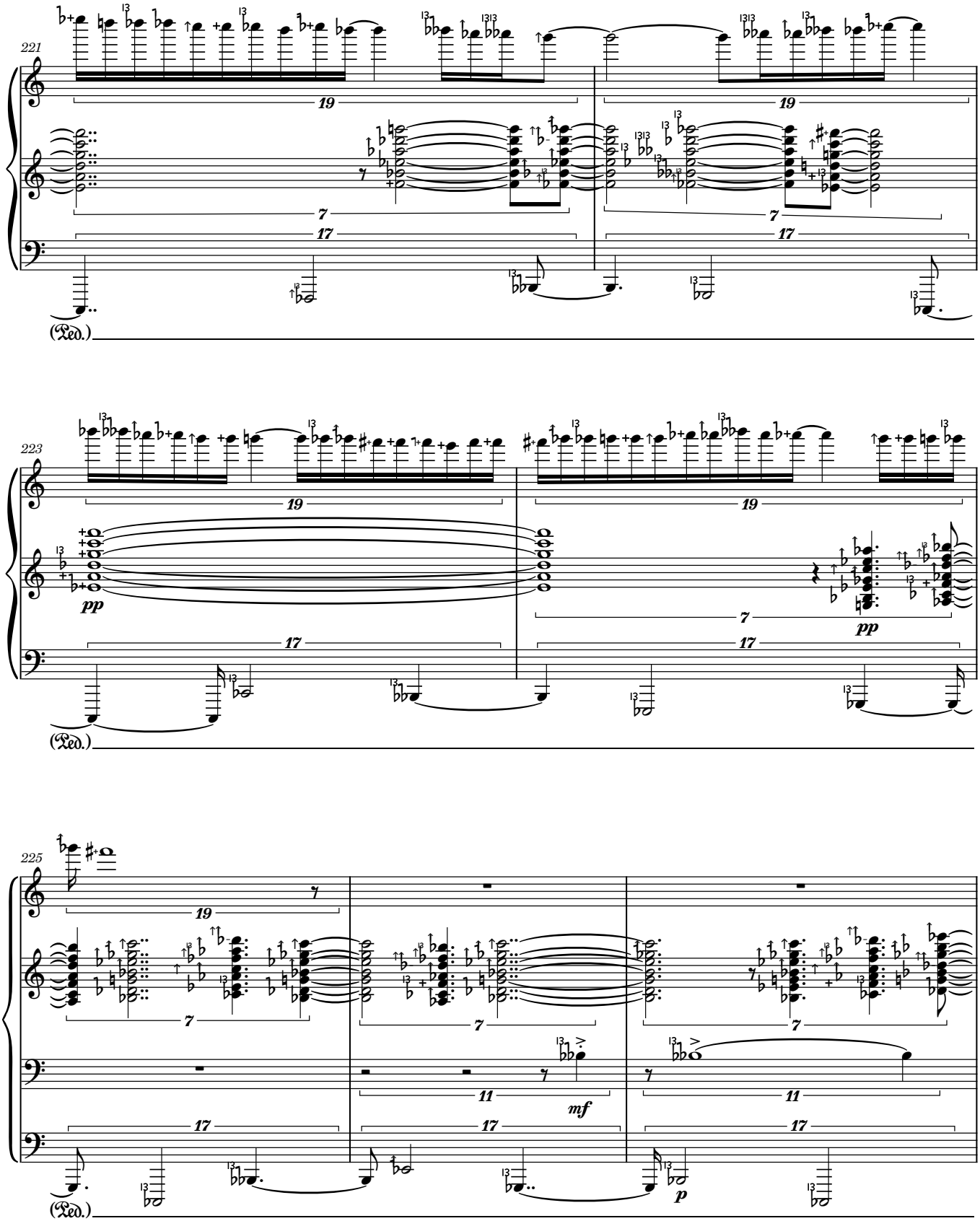

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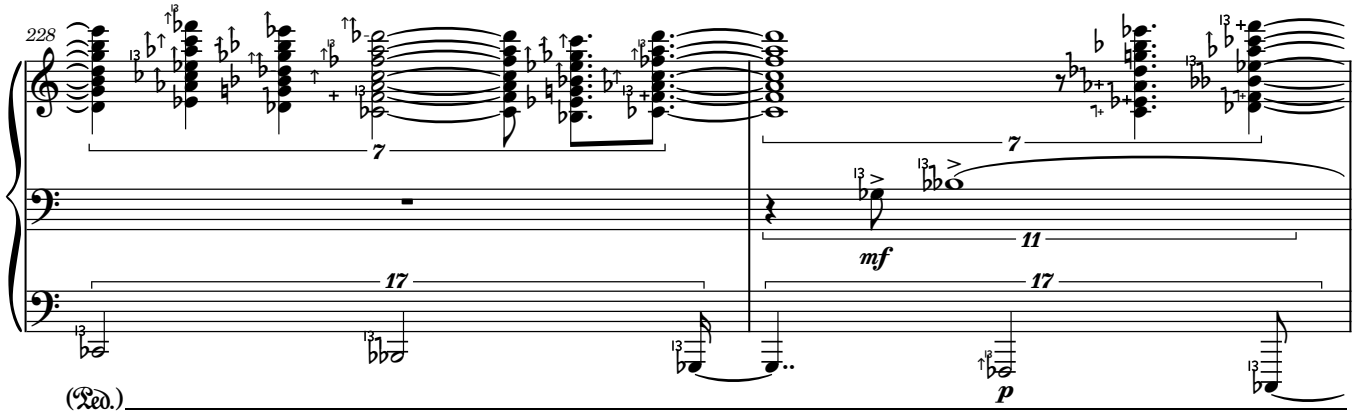

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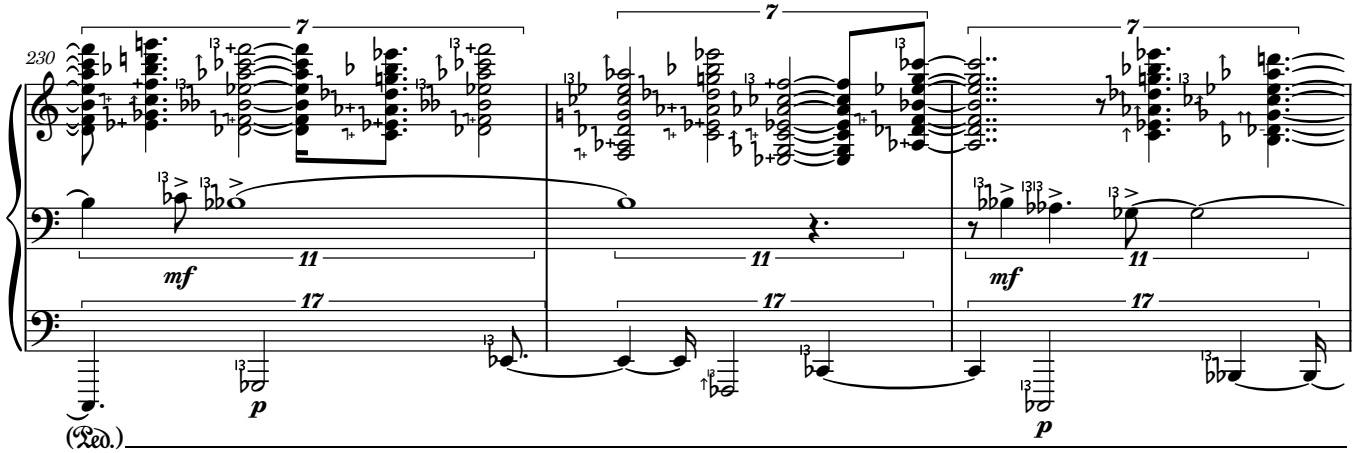

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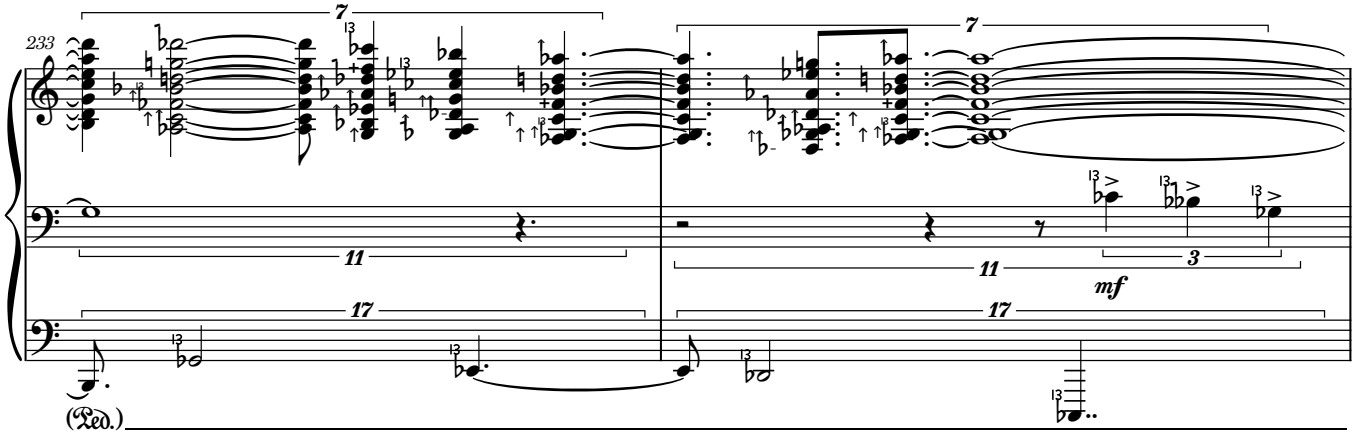

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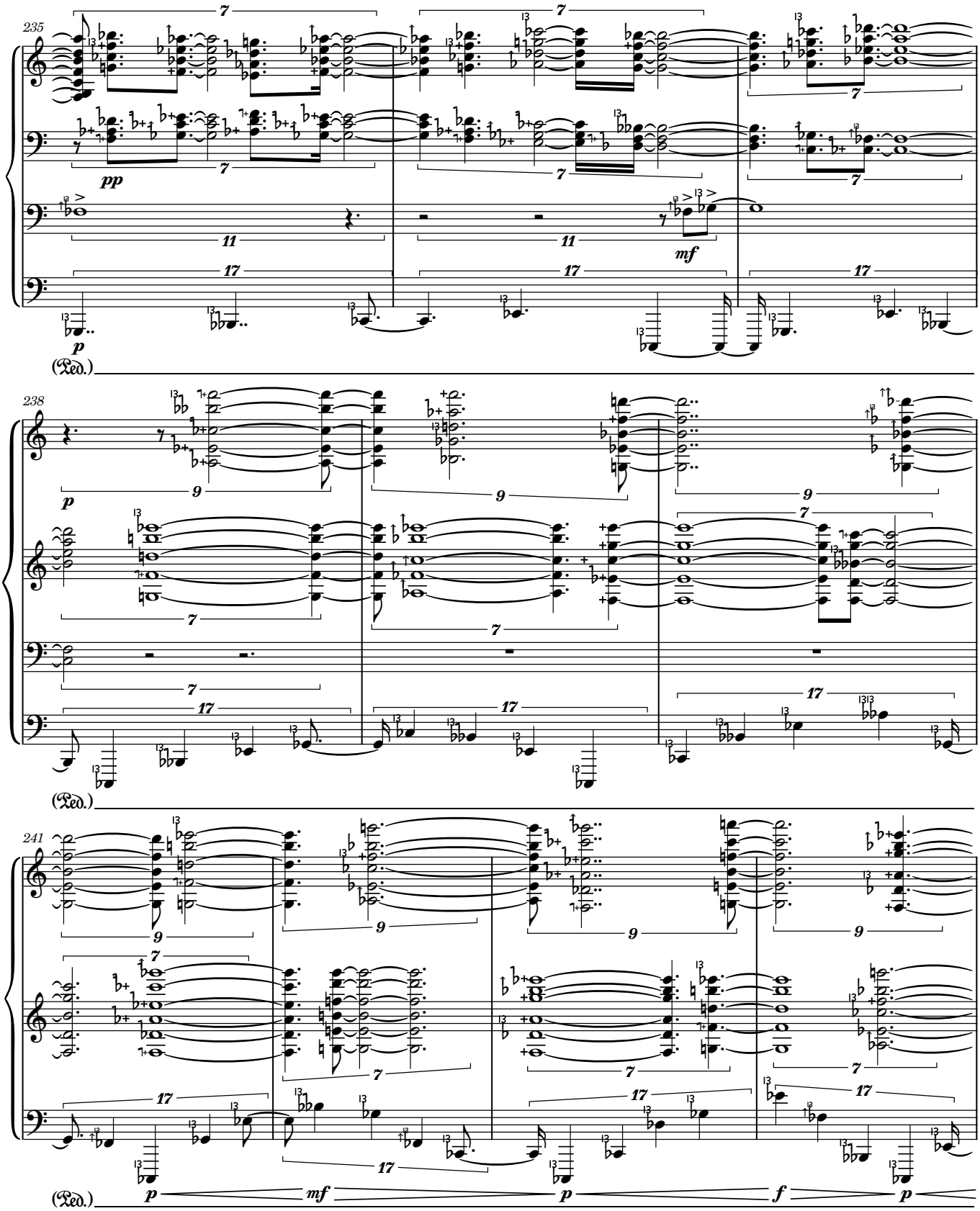

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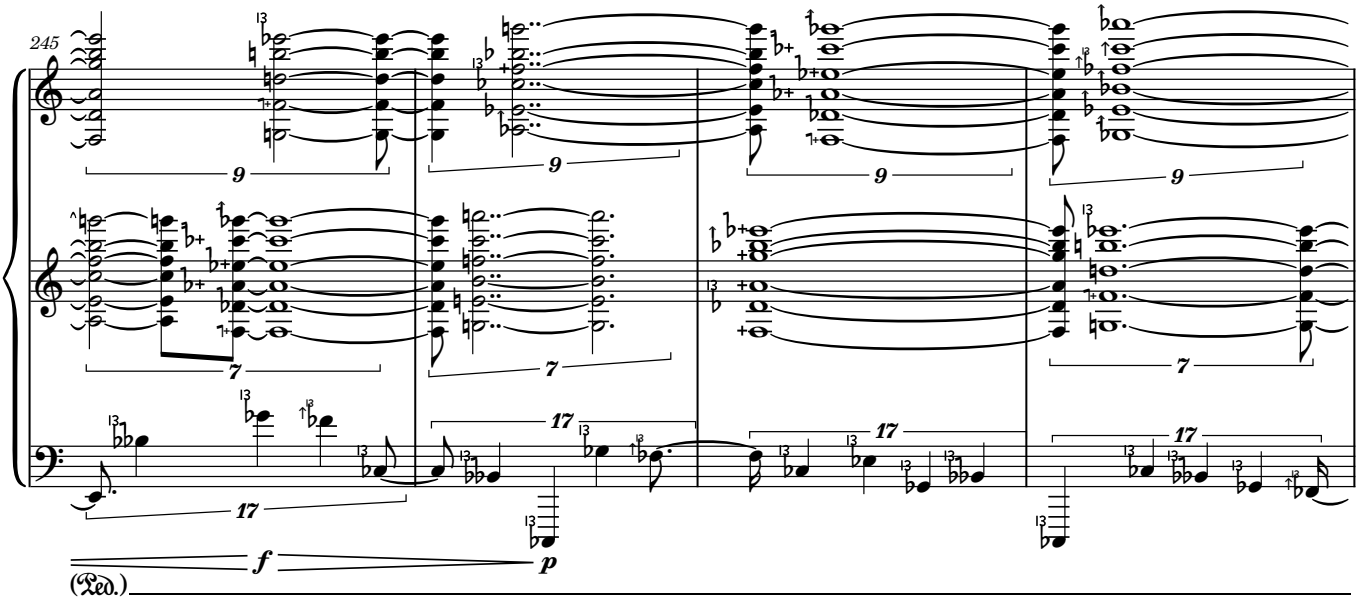

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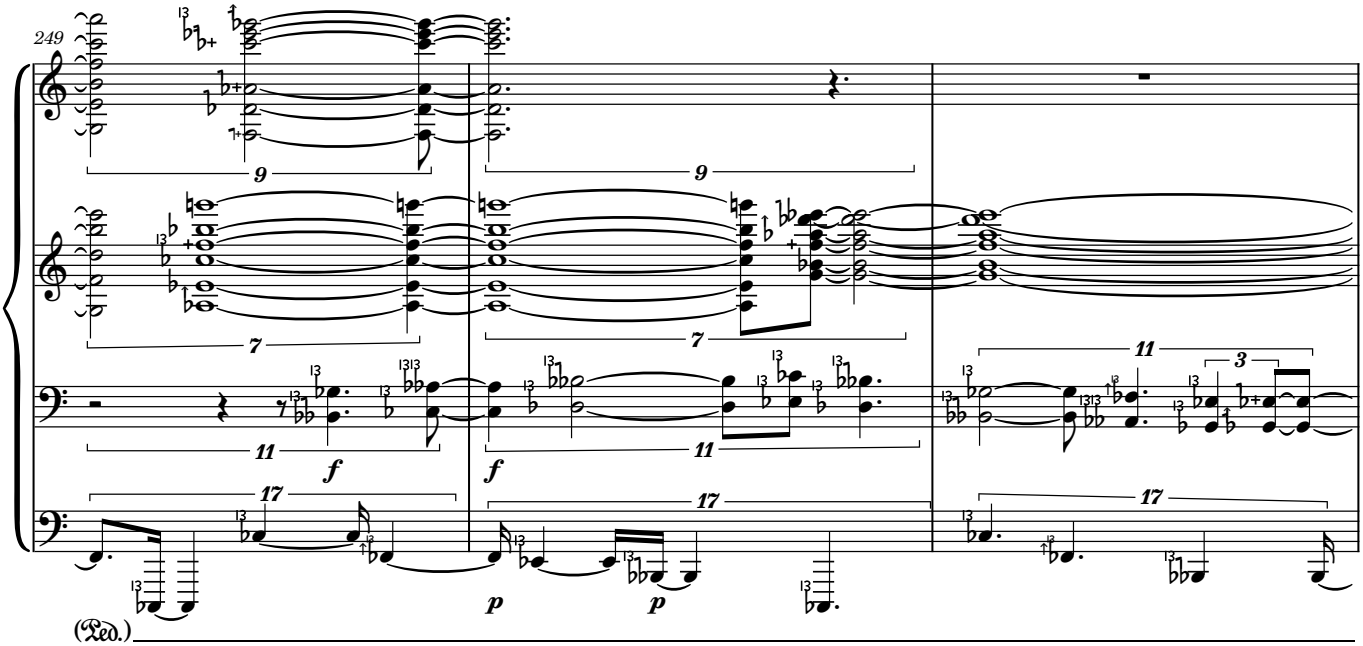

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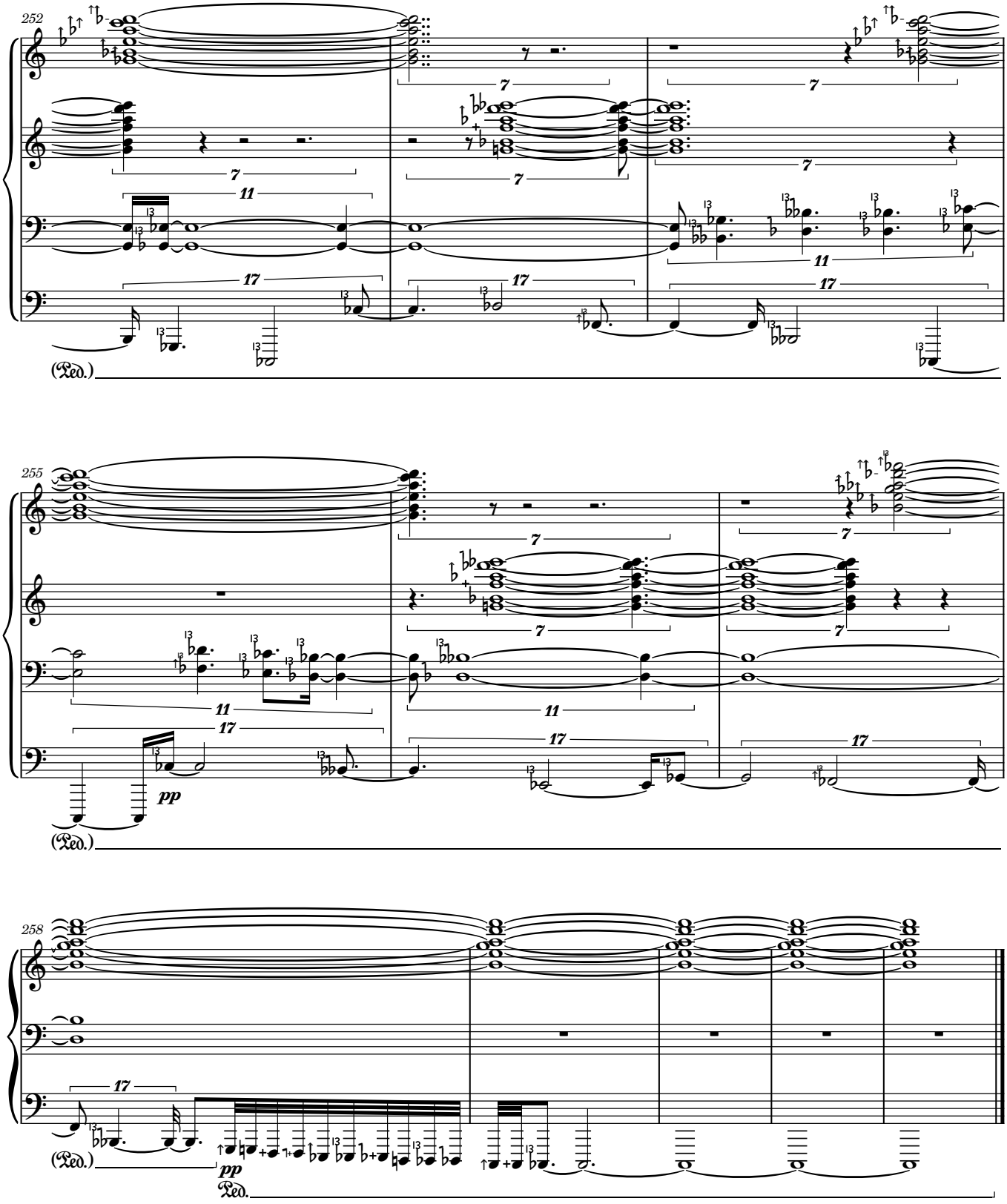

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233
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235
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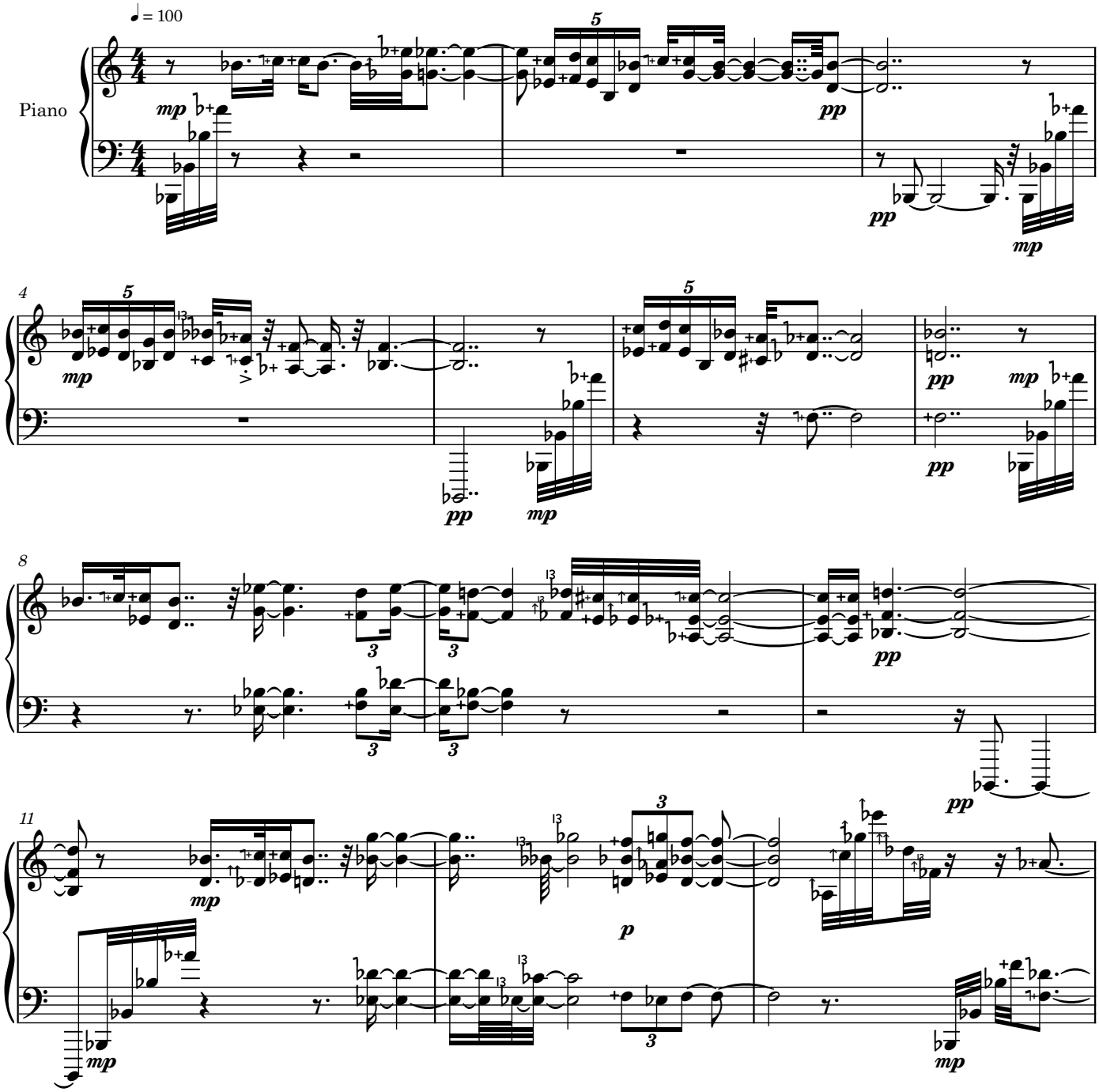

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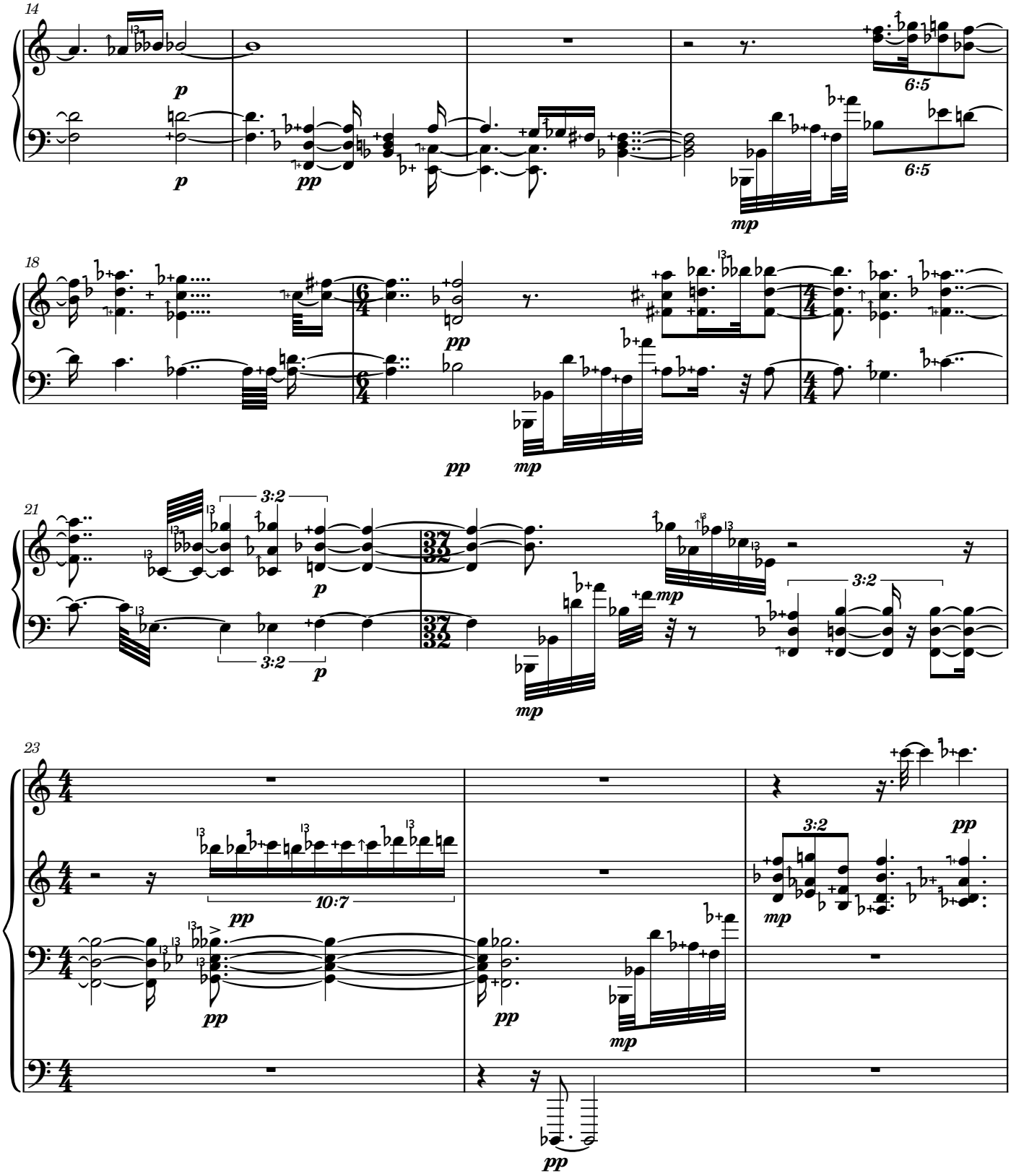


April 7 - July 25, 2017
Germantown, NY
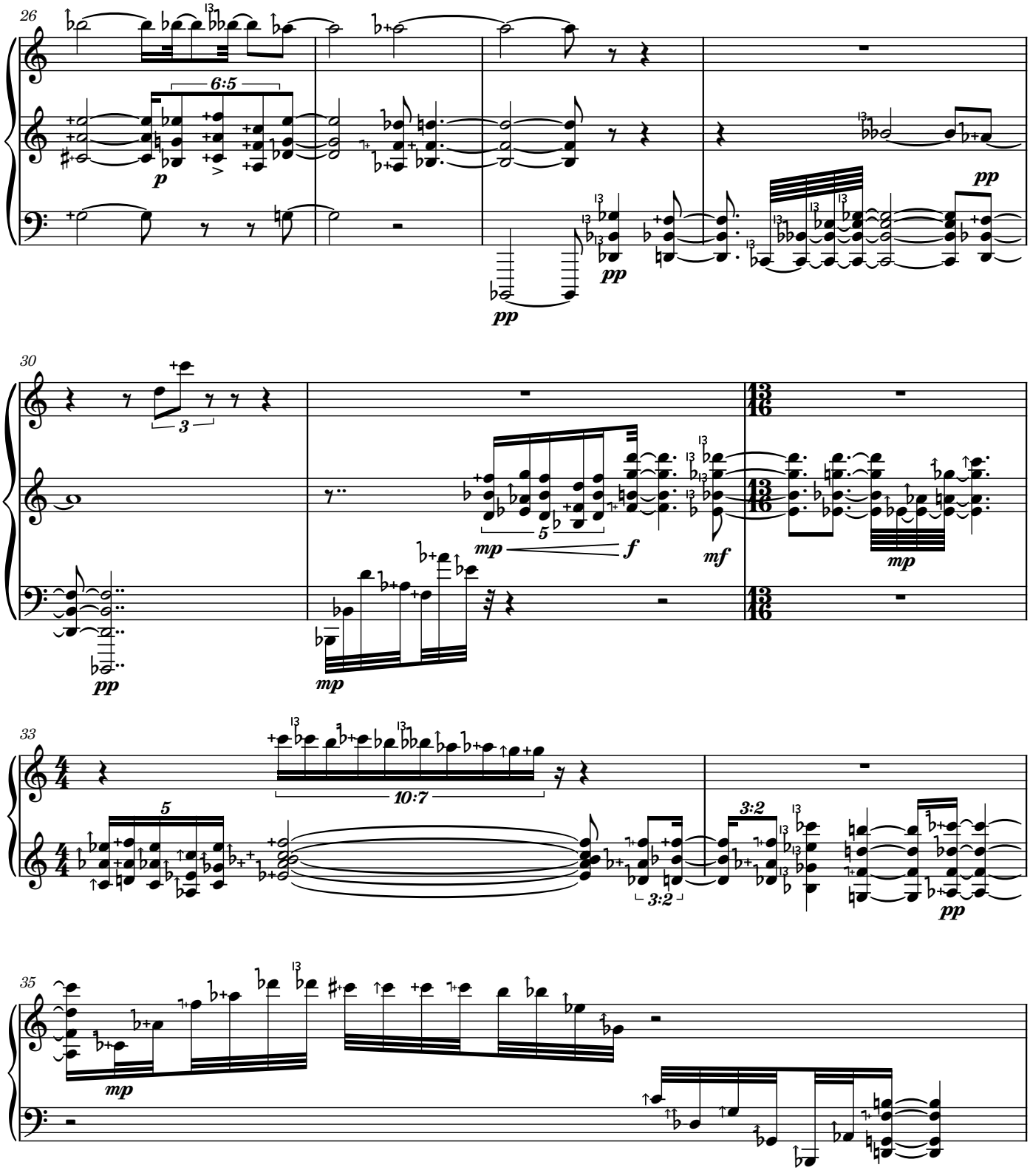
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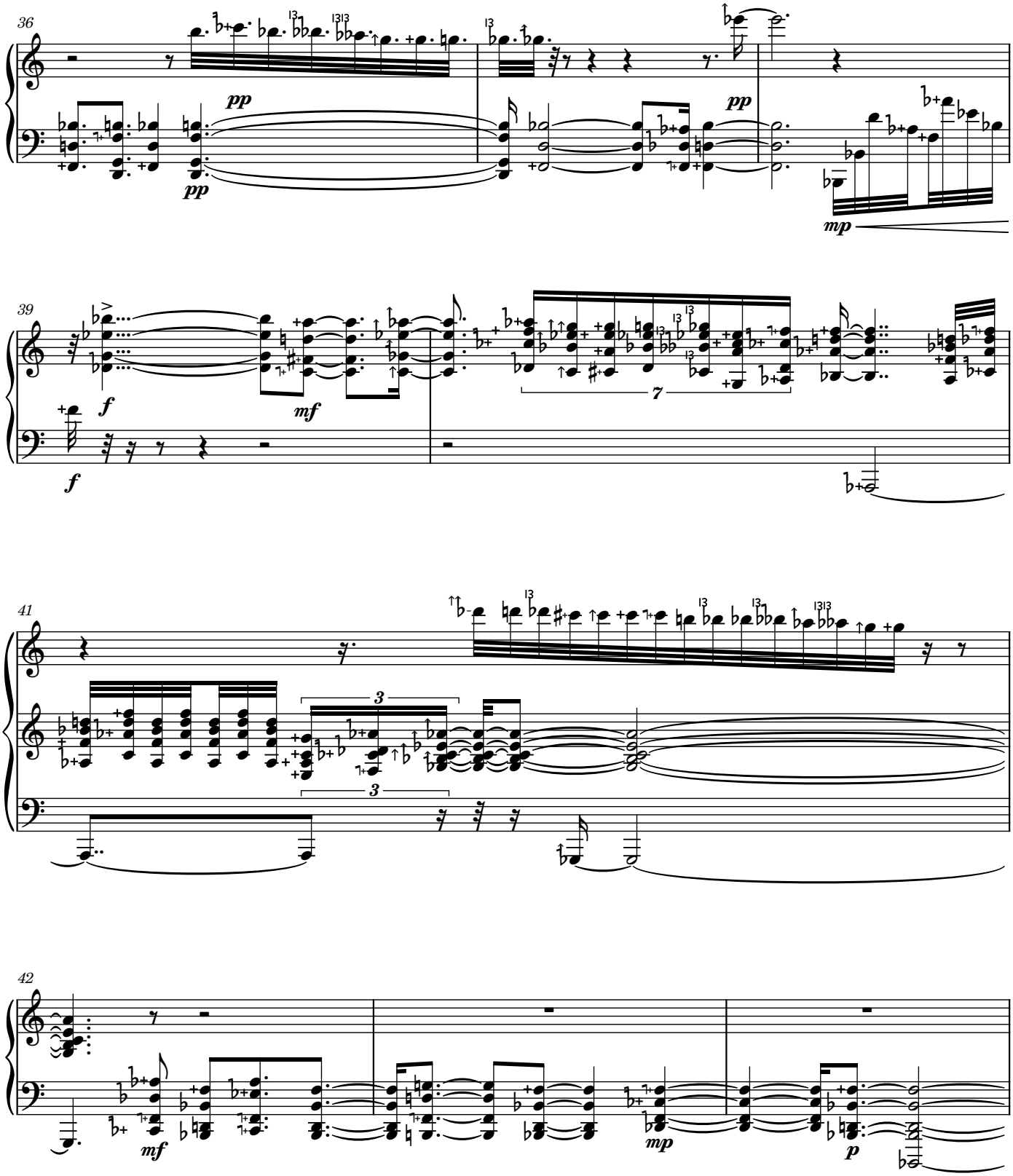
Kyle Gann
2017
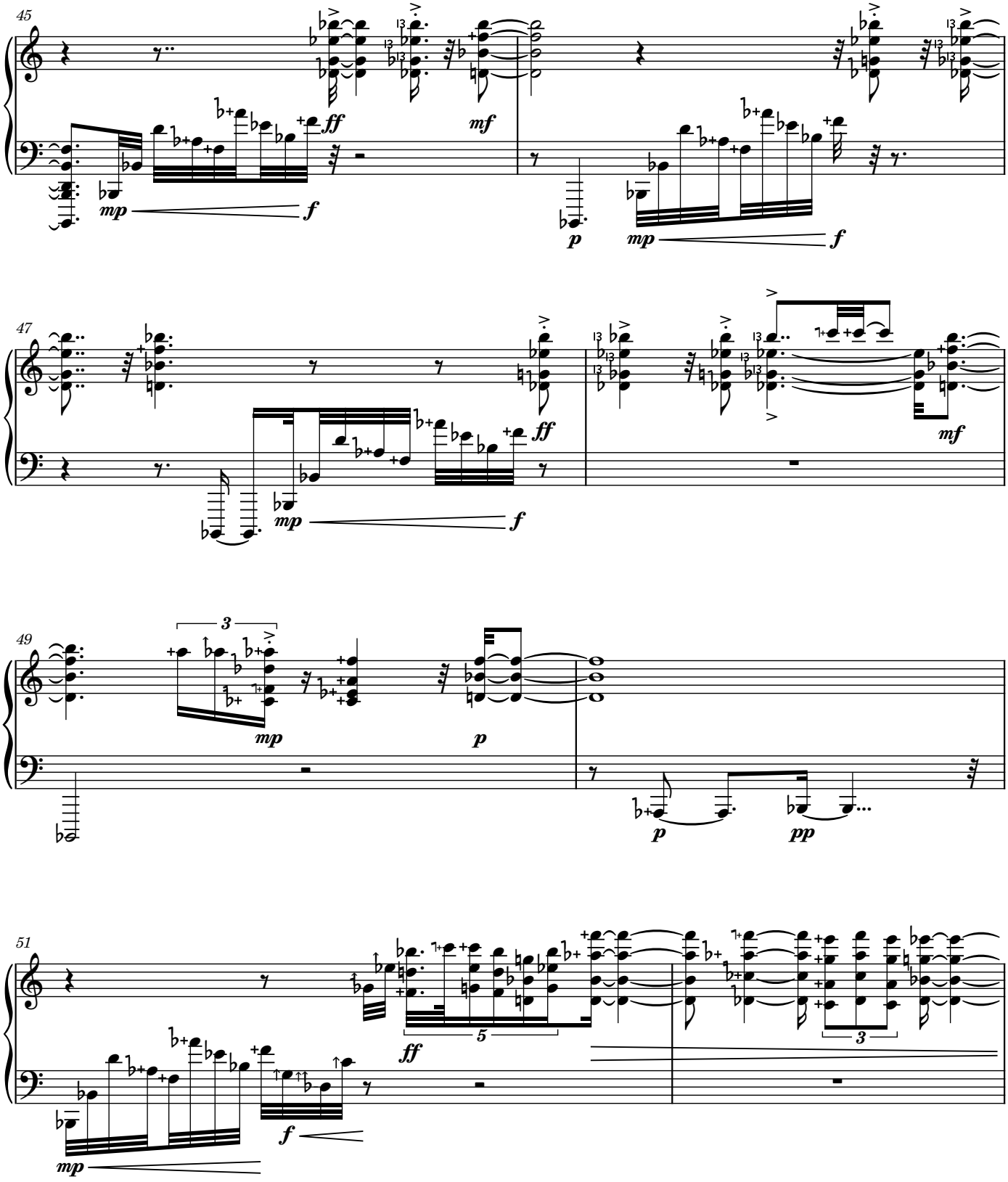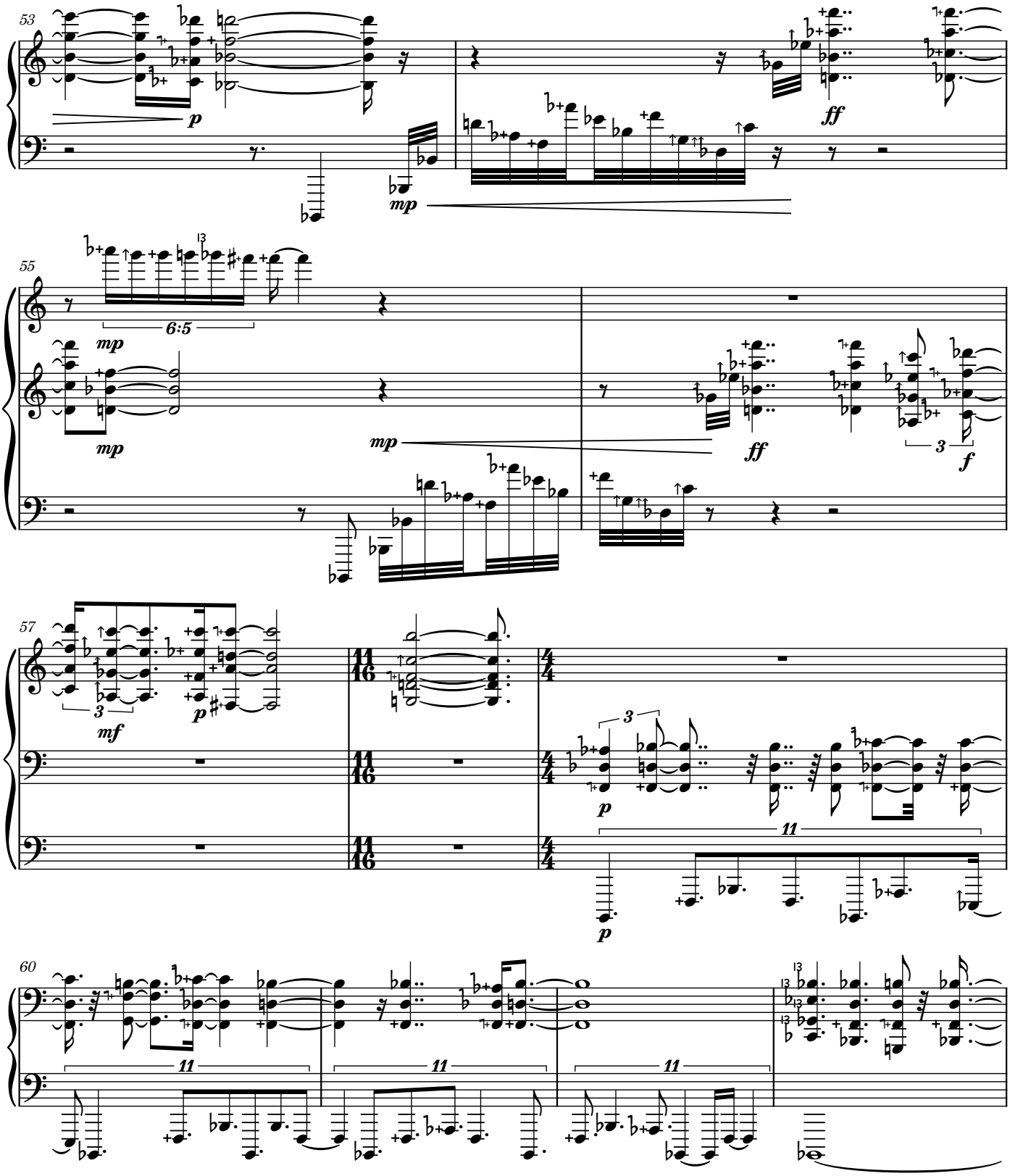


© 2017 Smith Grabholz Music
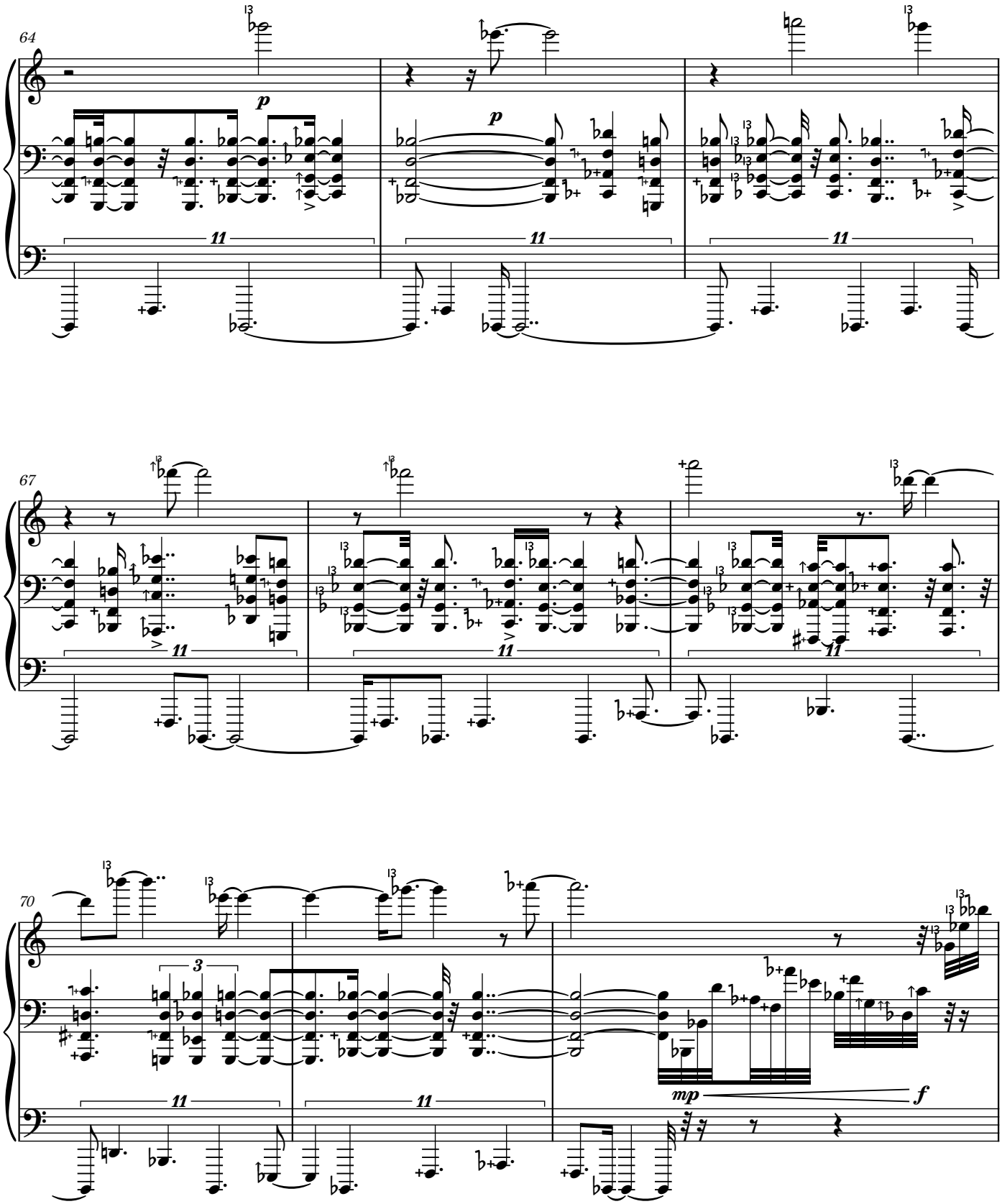

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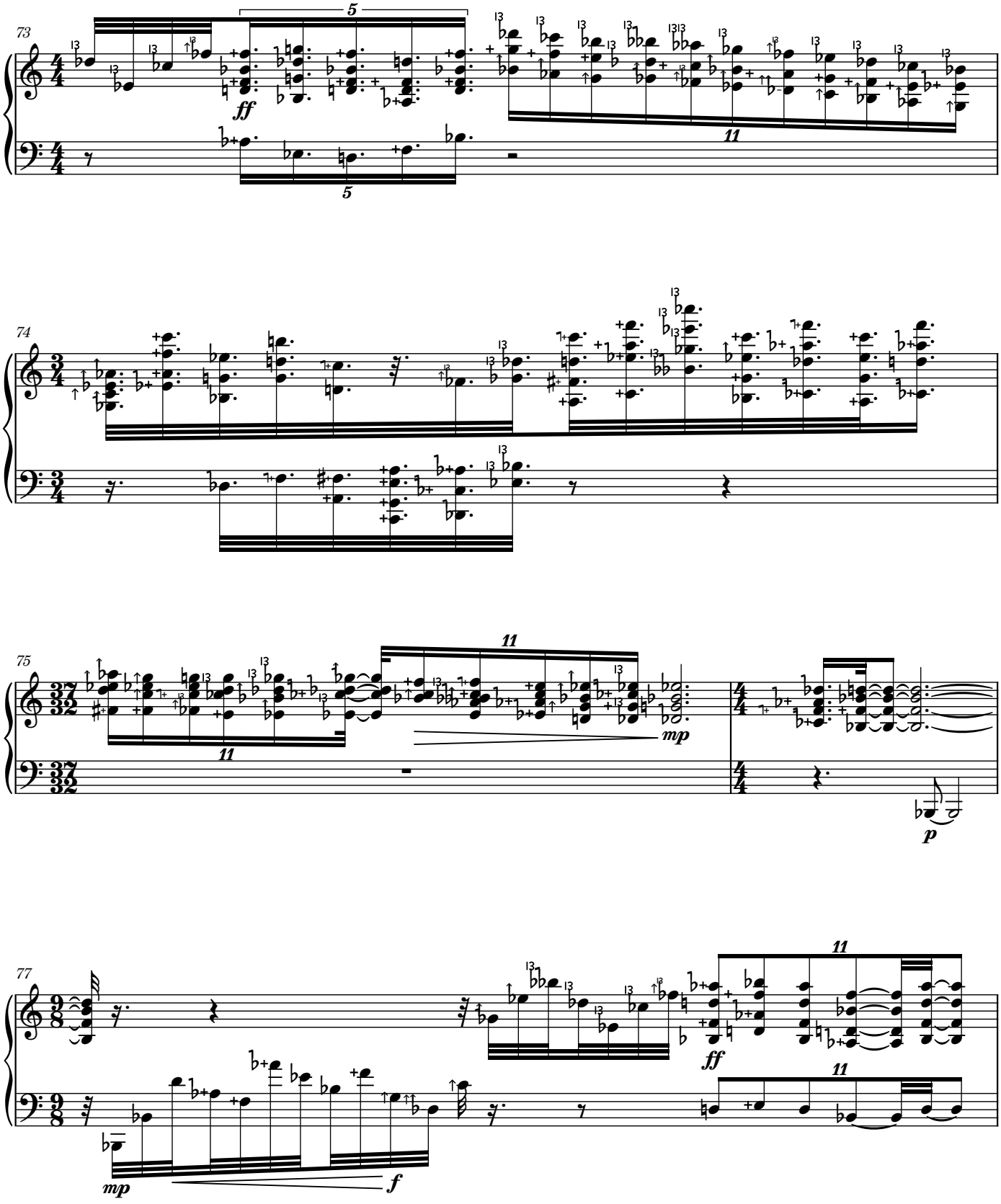

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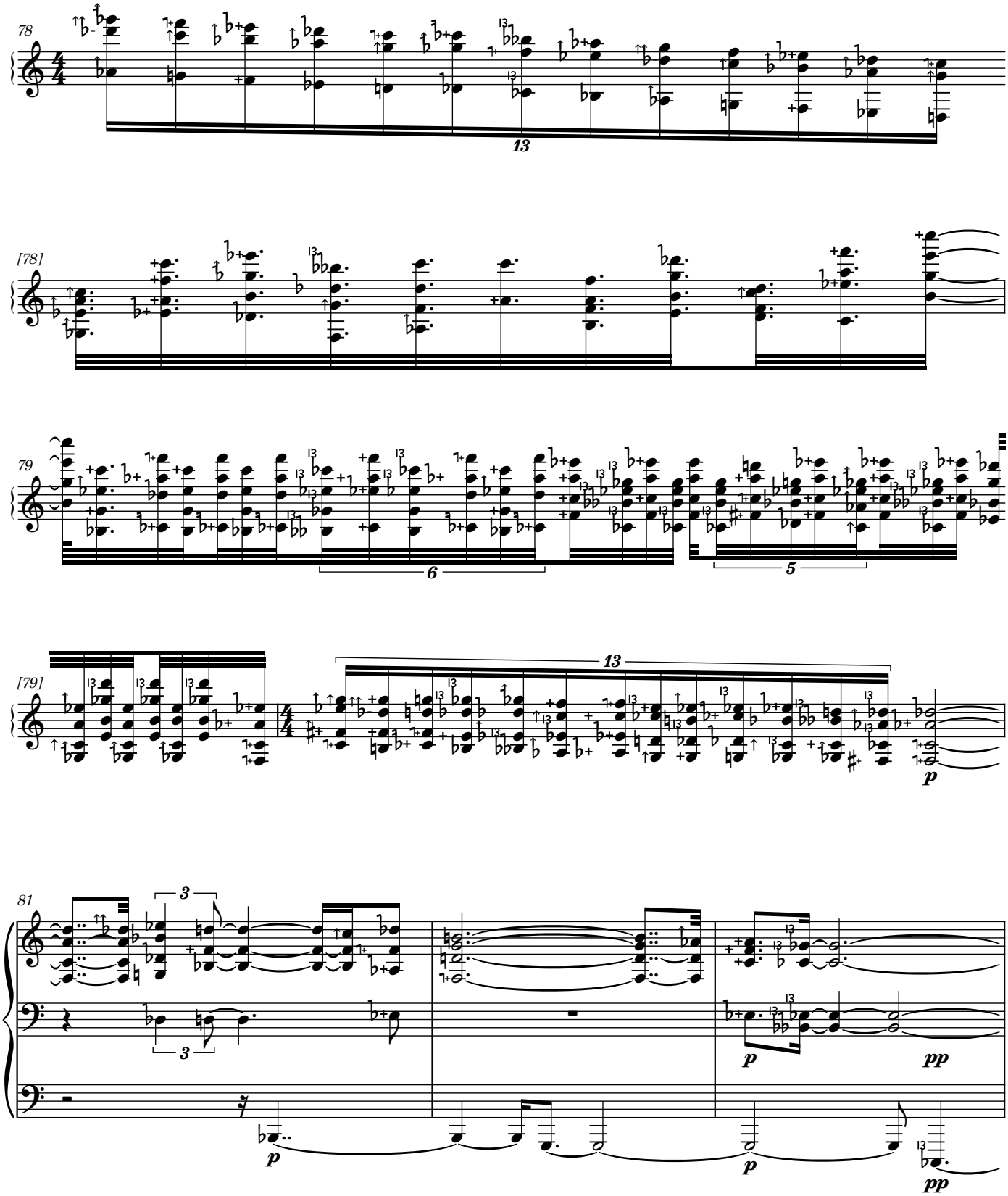

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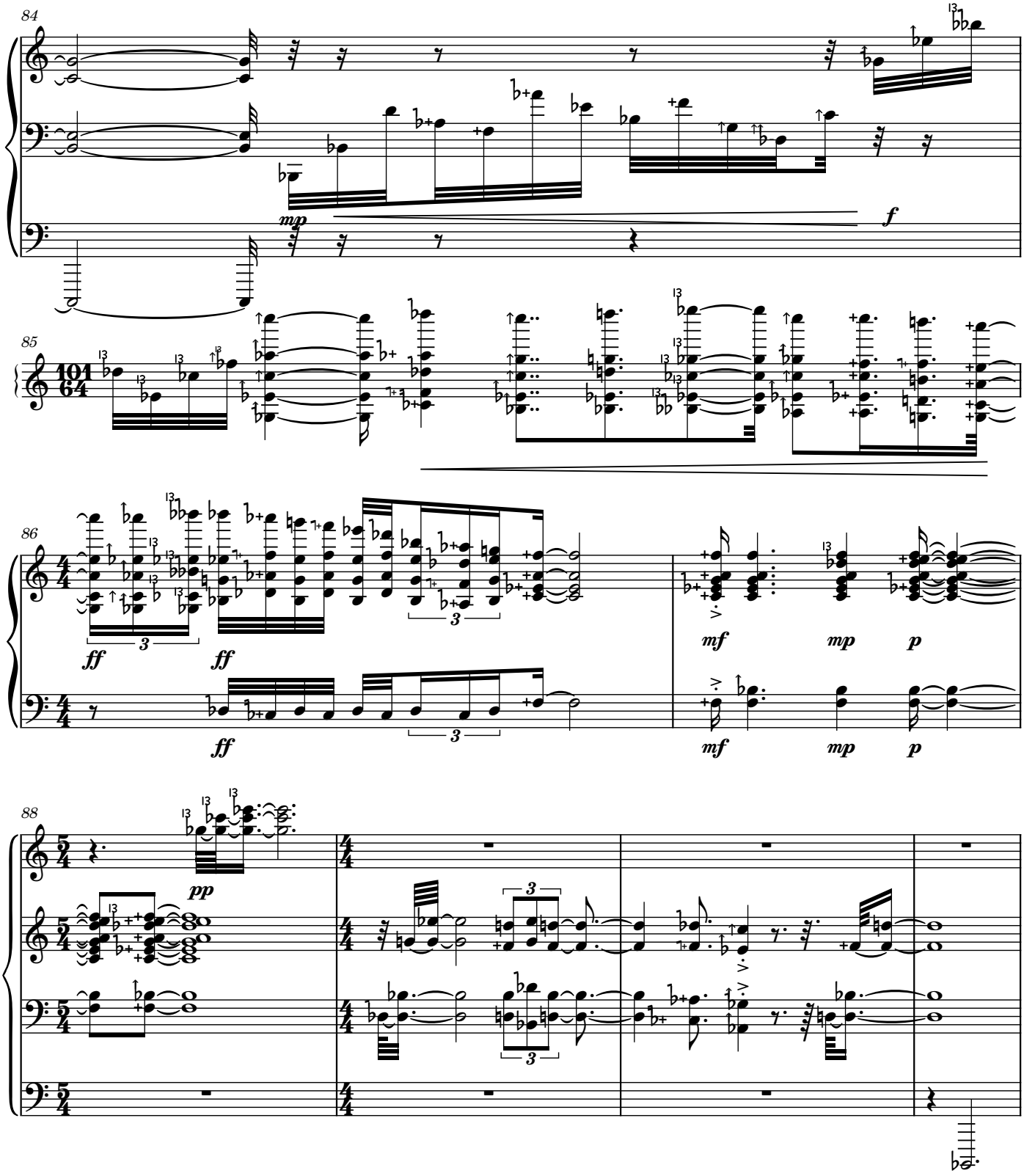

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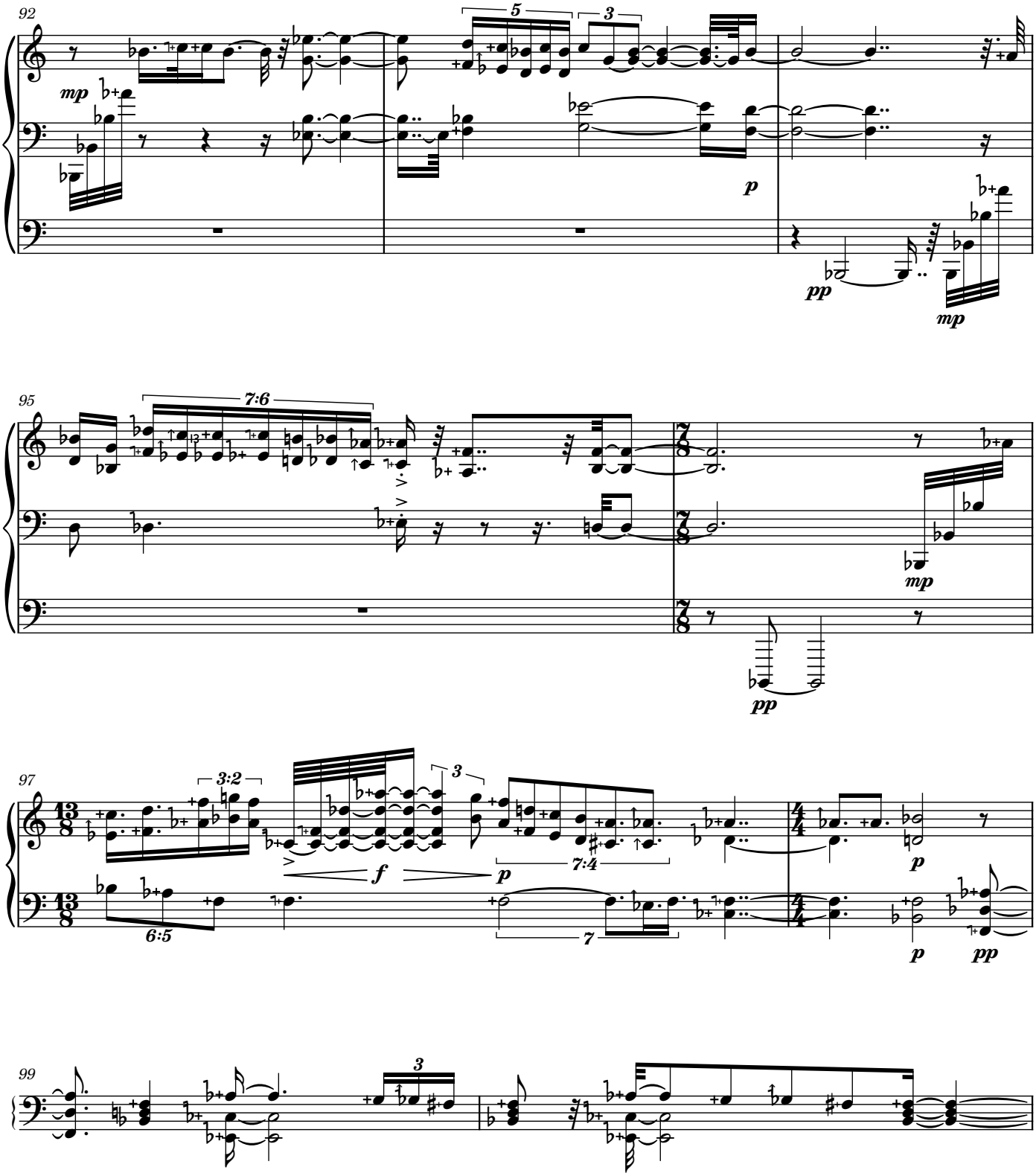

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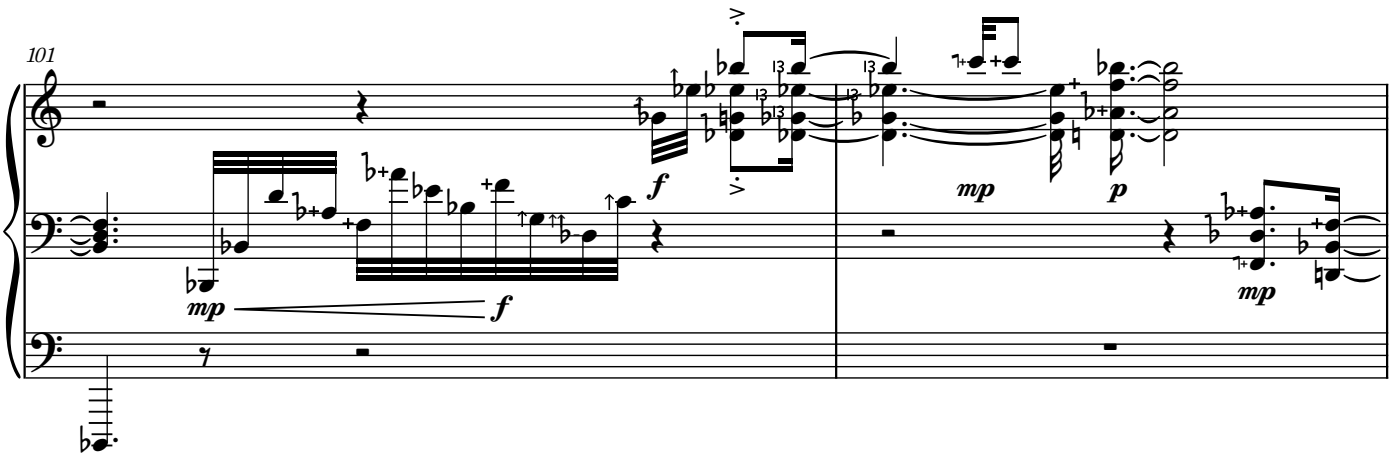

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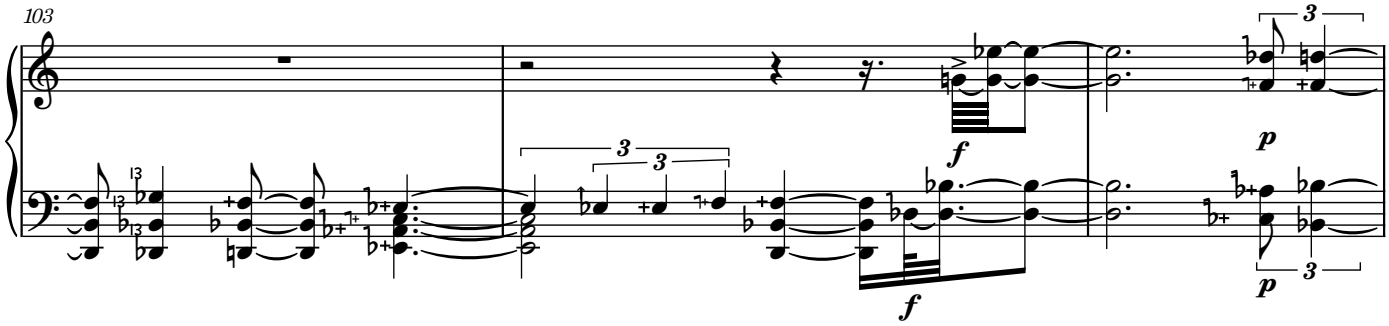

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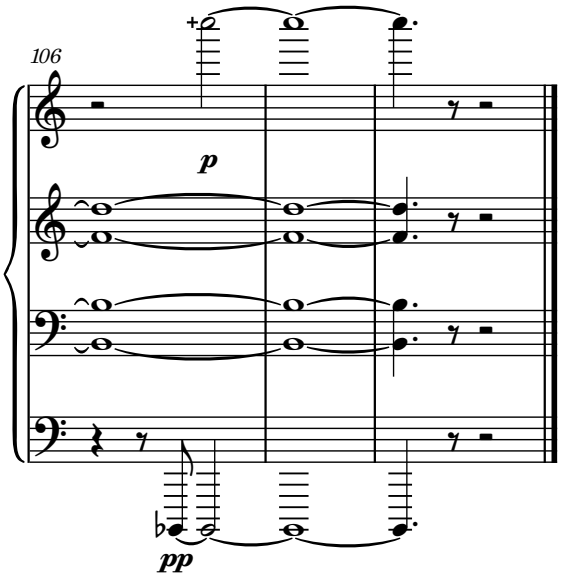

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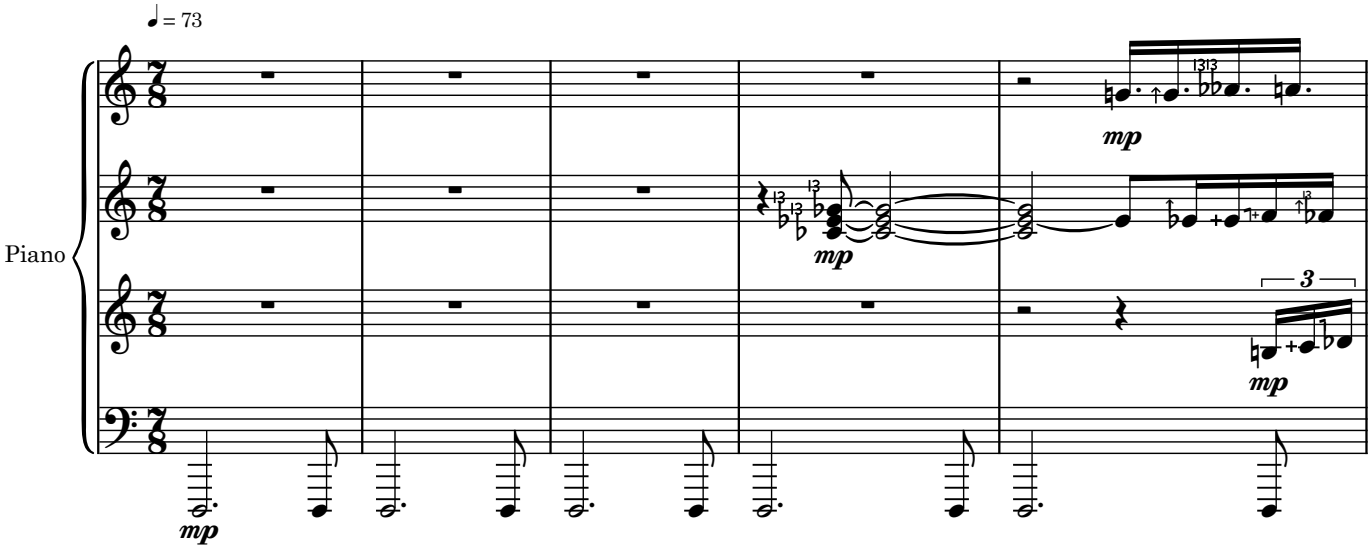


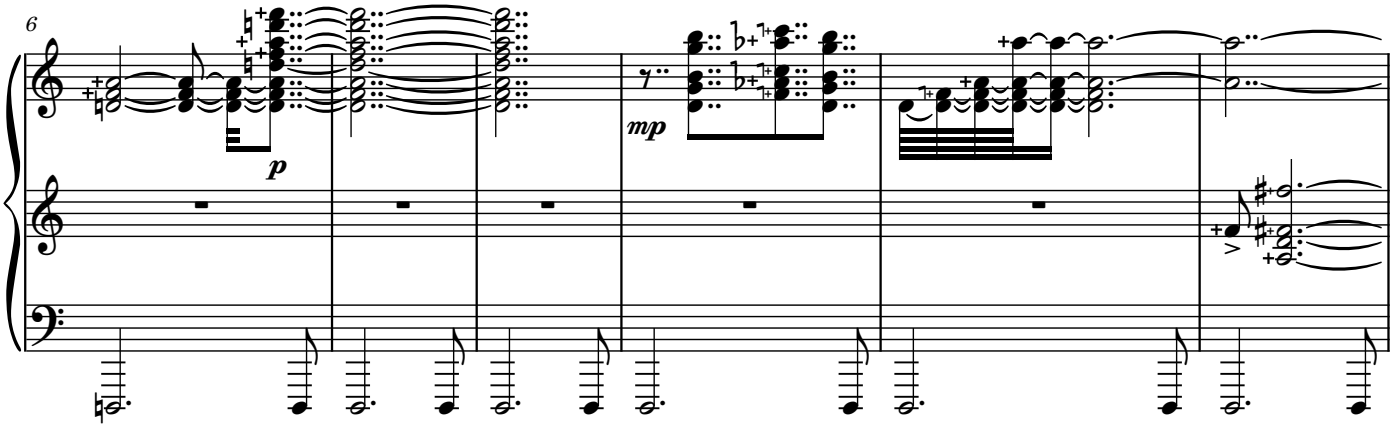


May 31 - June 26, 2017
Germantown, NY
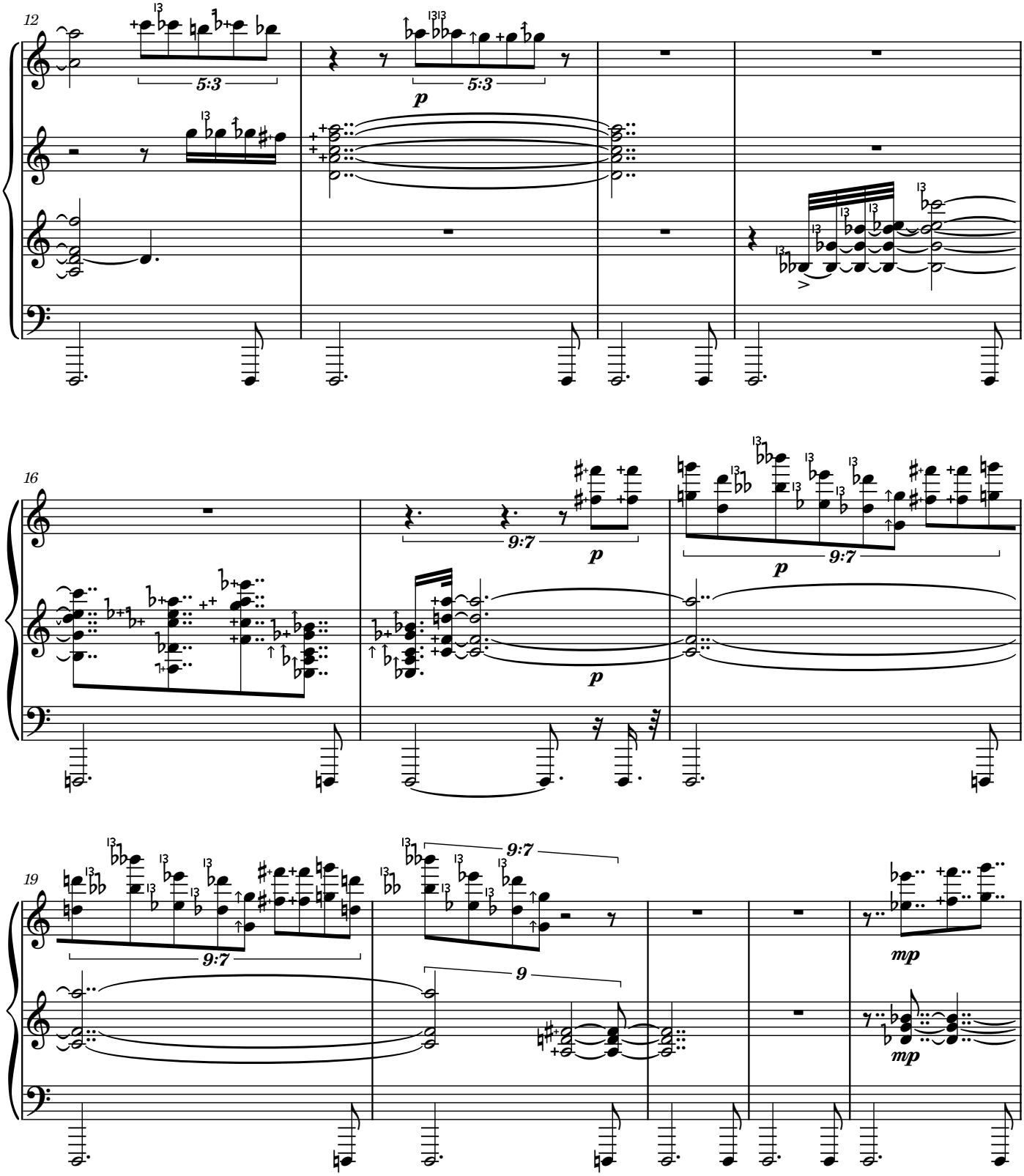
Extravehicular Activity

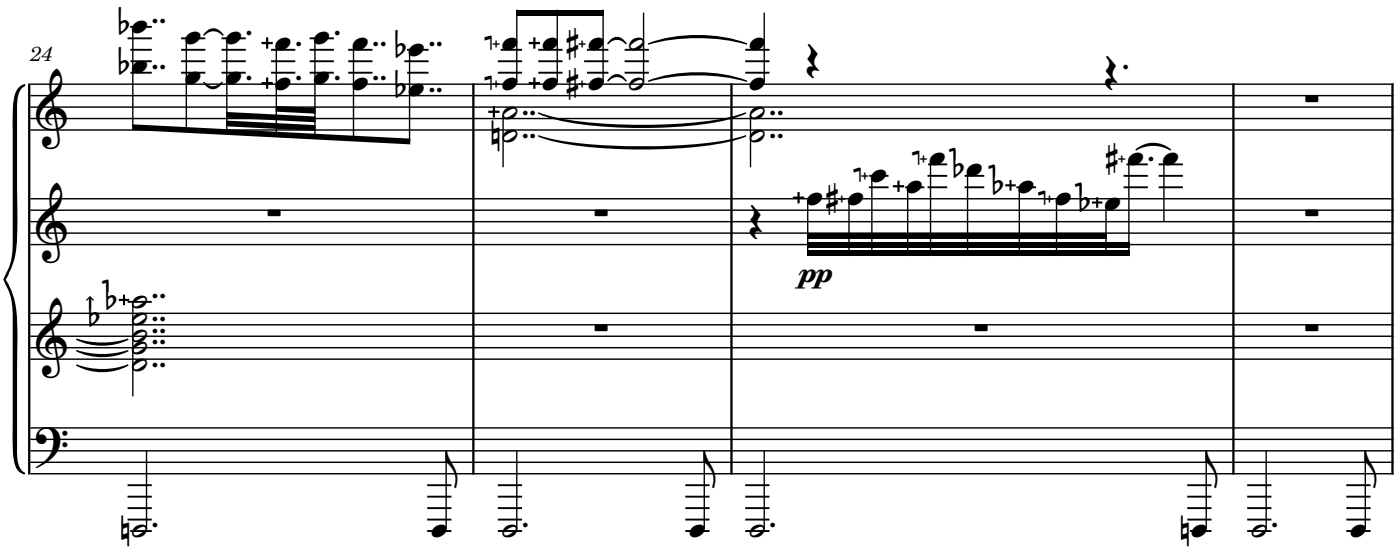
Kyle Gann
2021

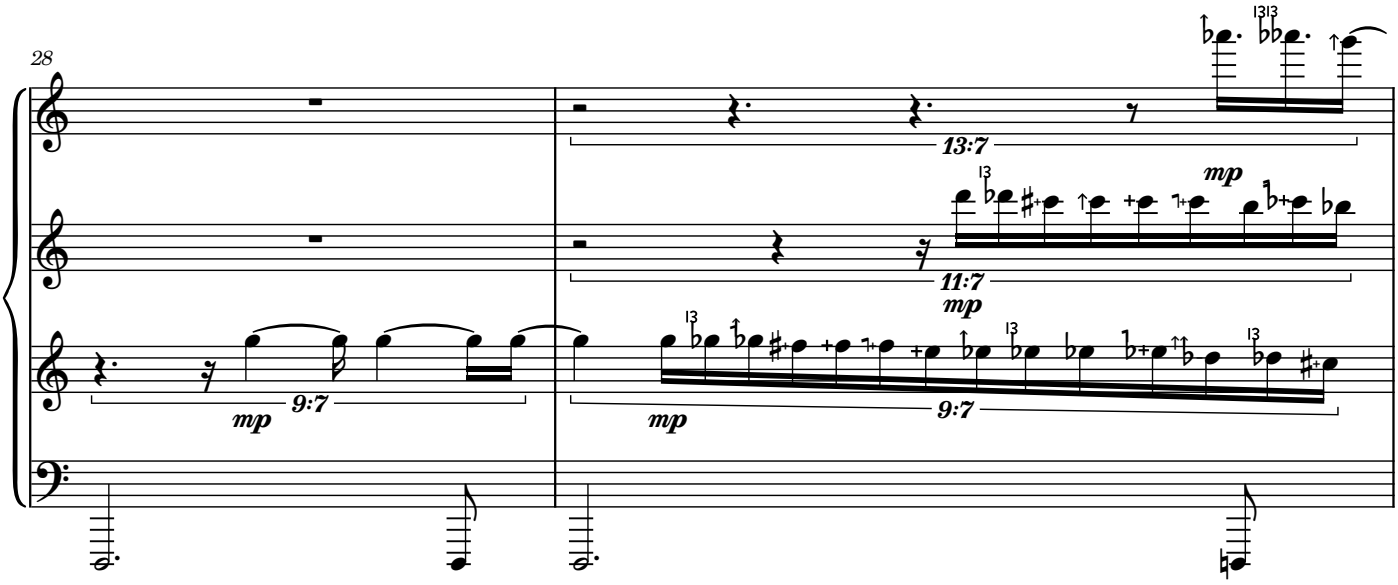


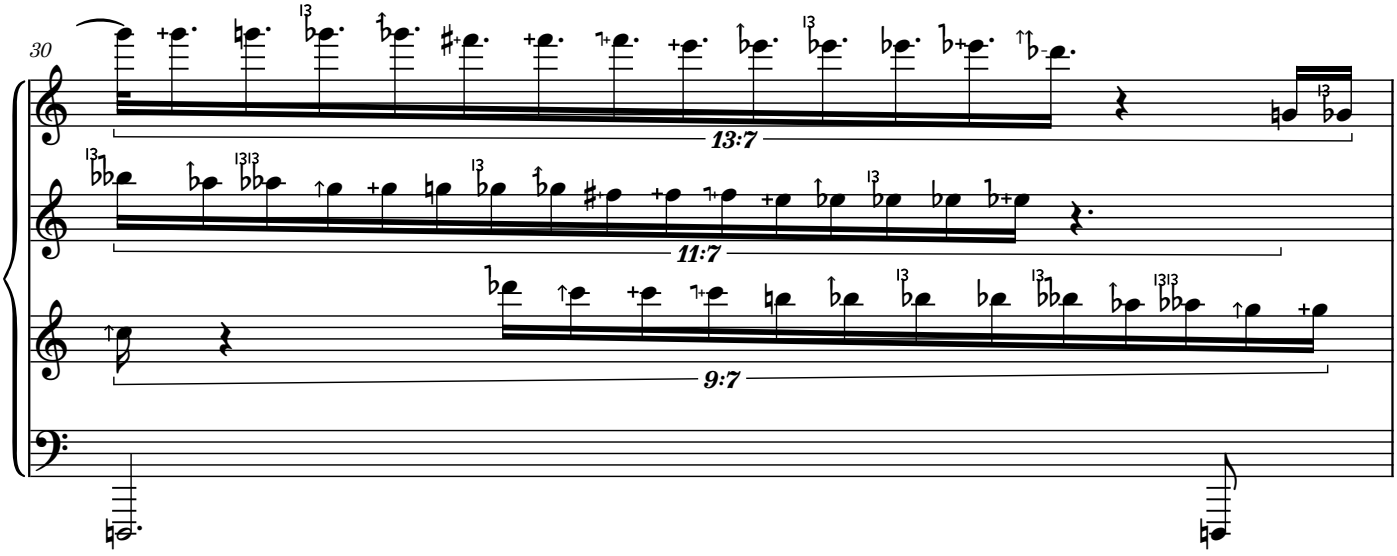


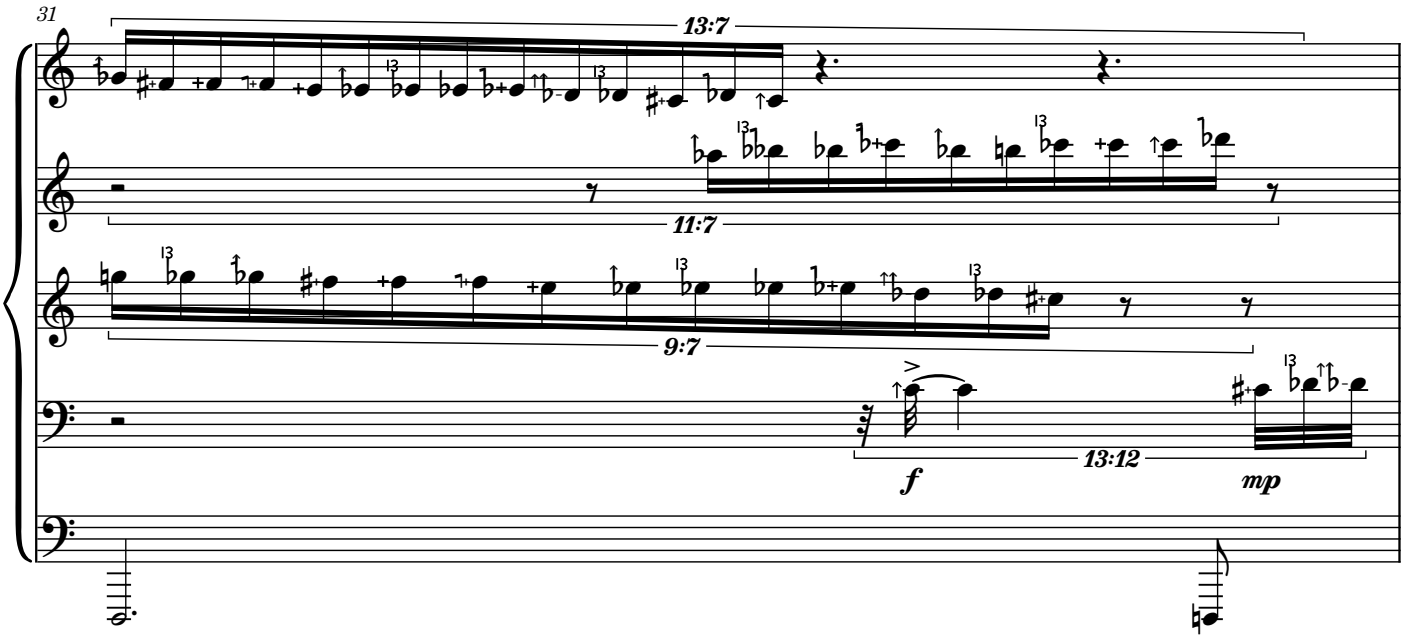
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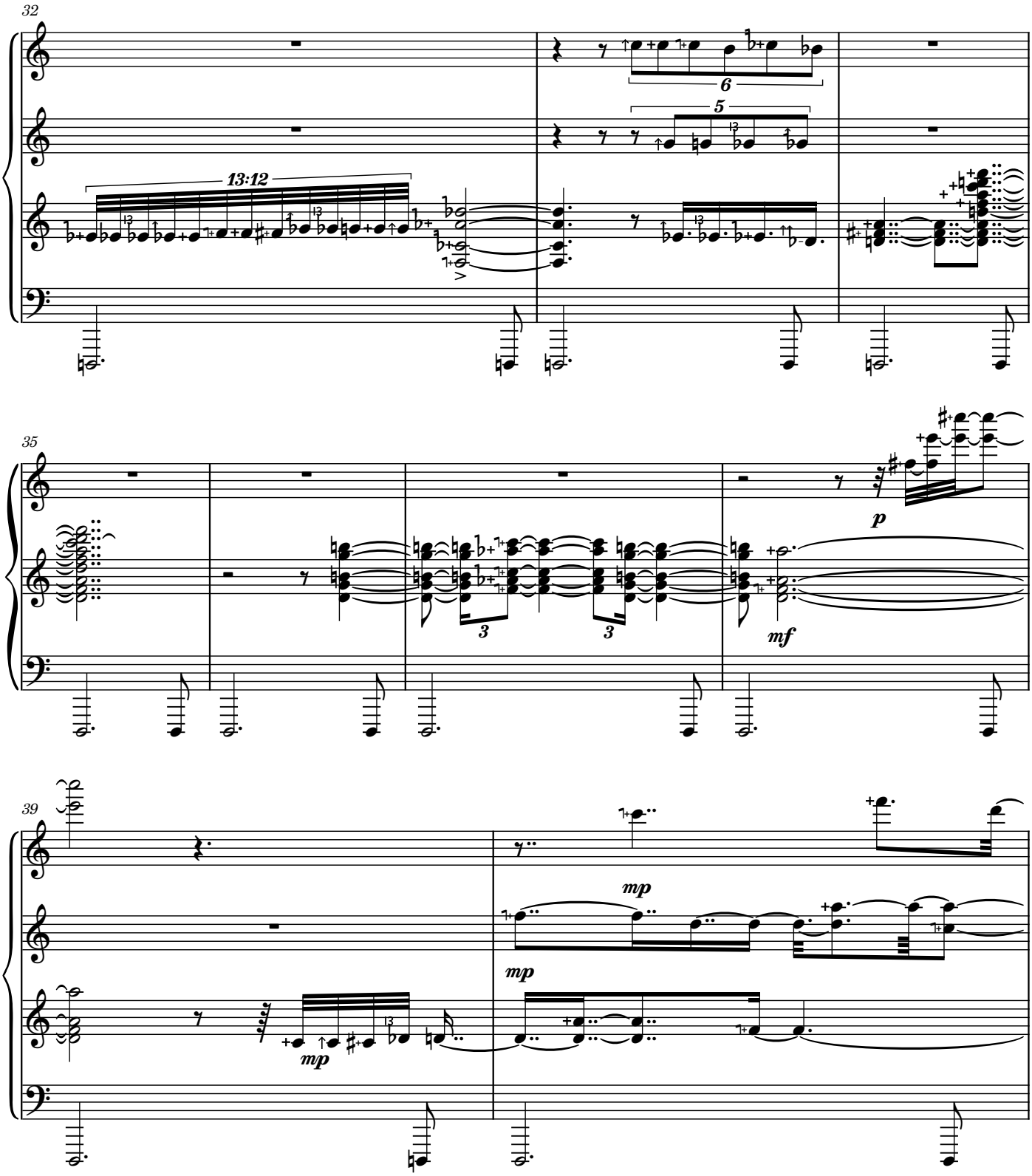

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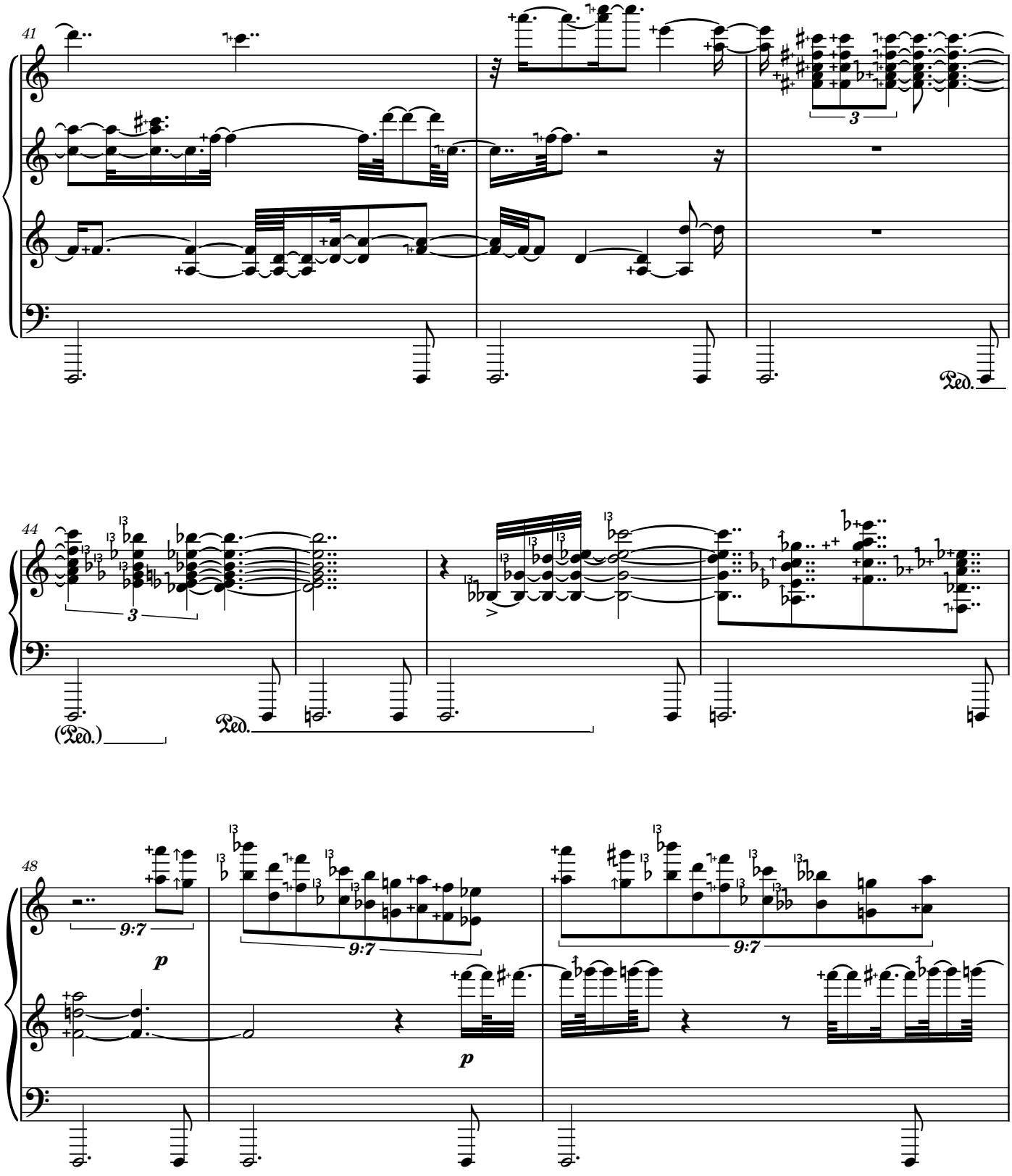

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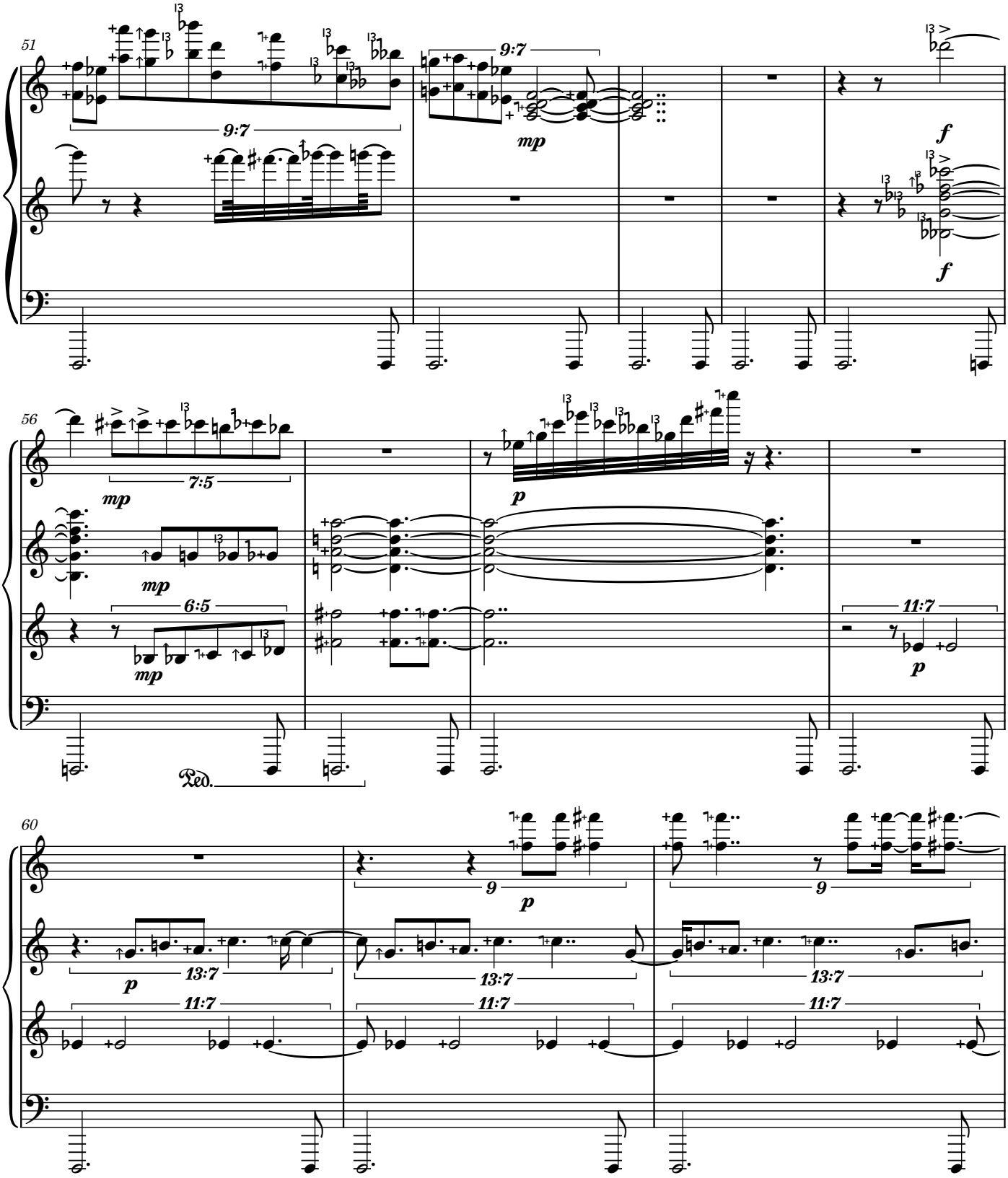

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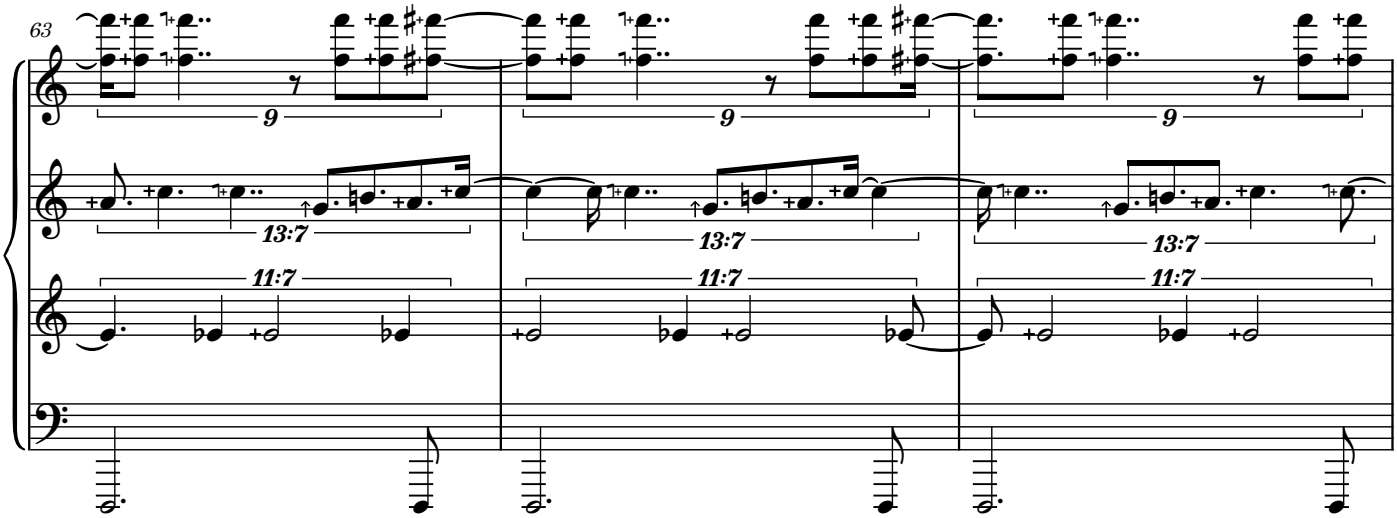

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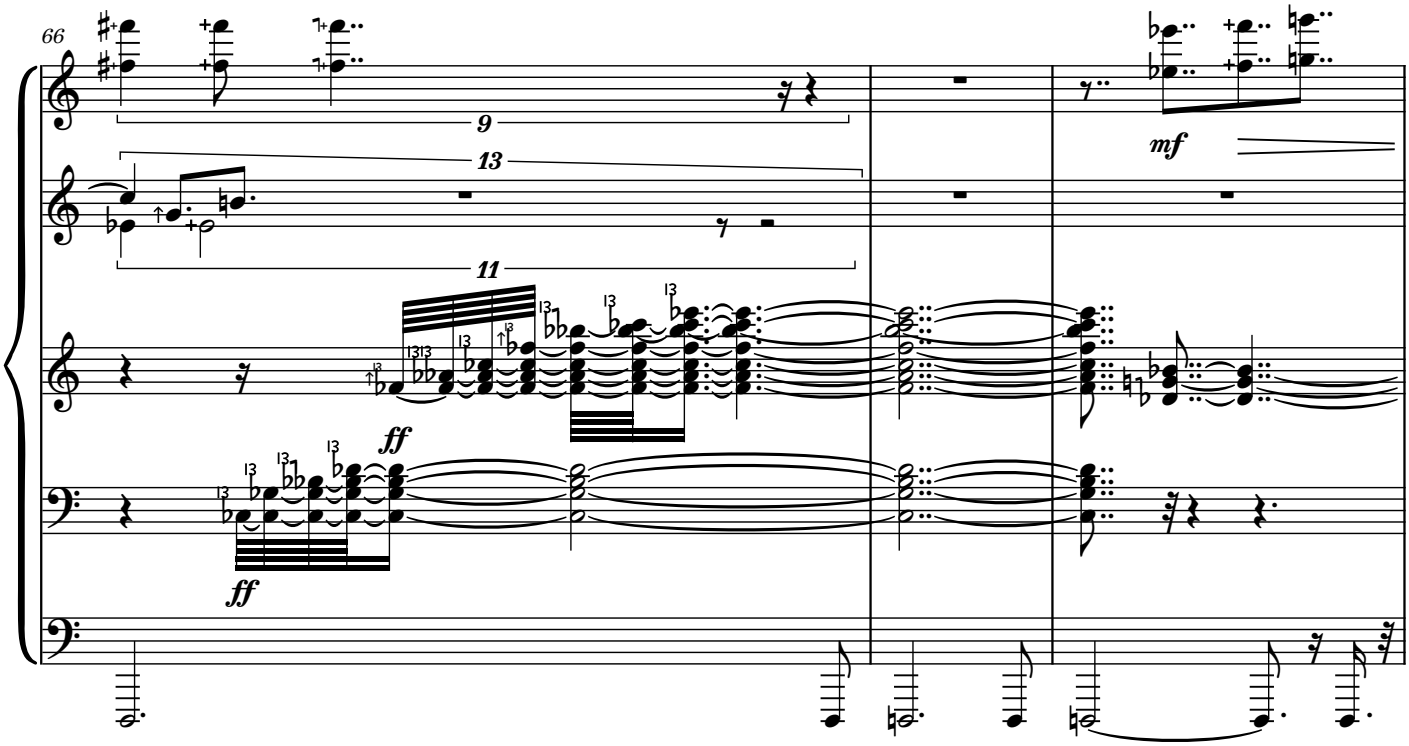

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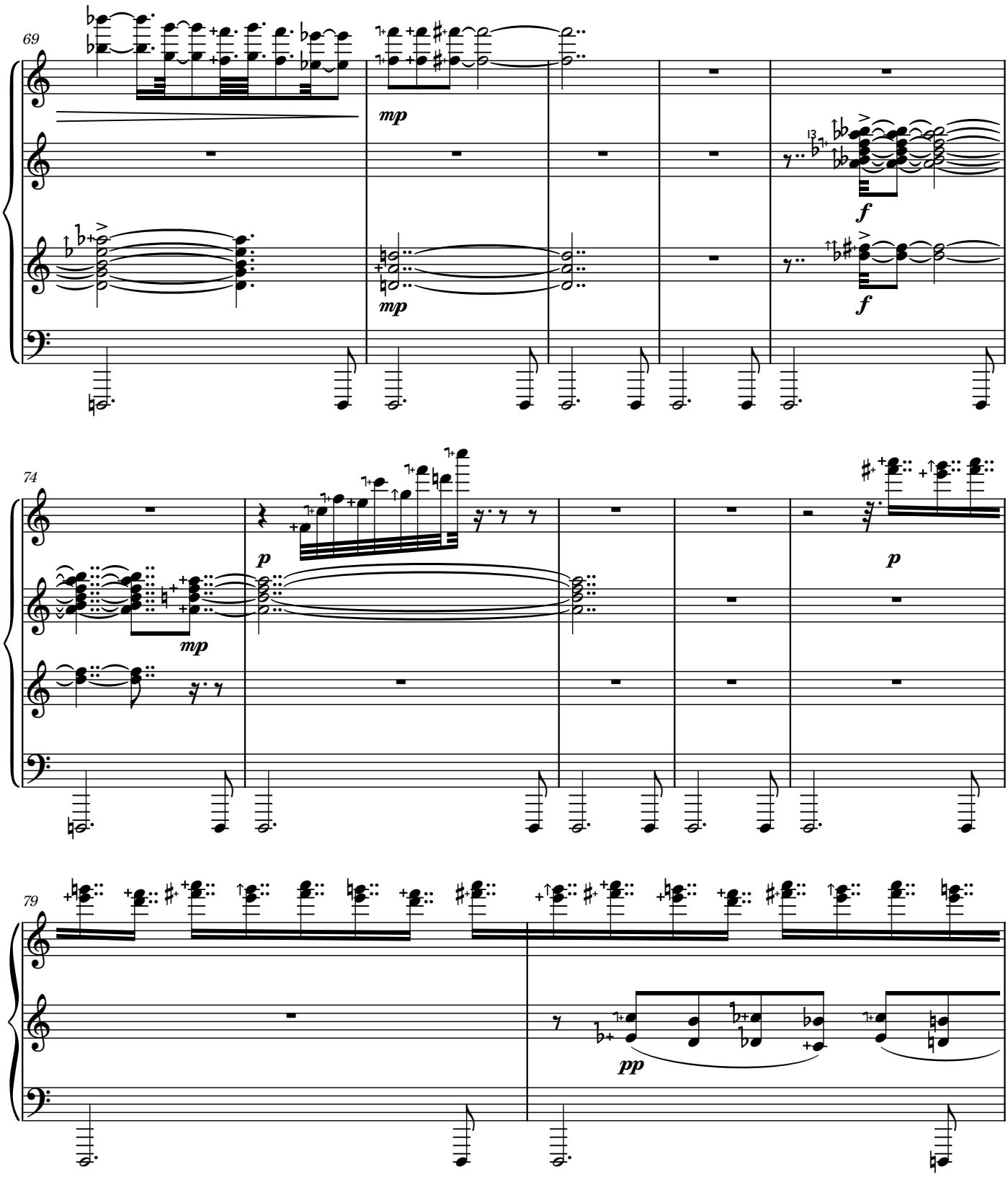

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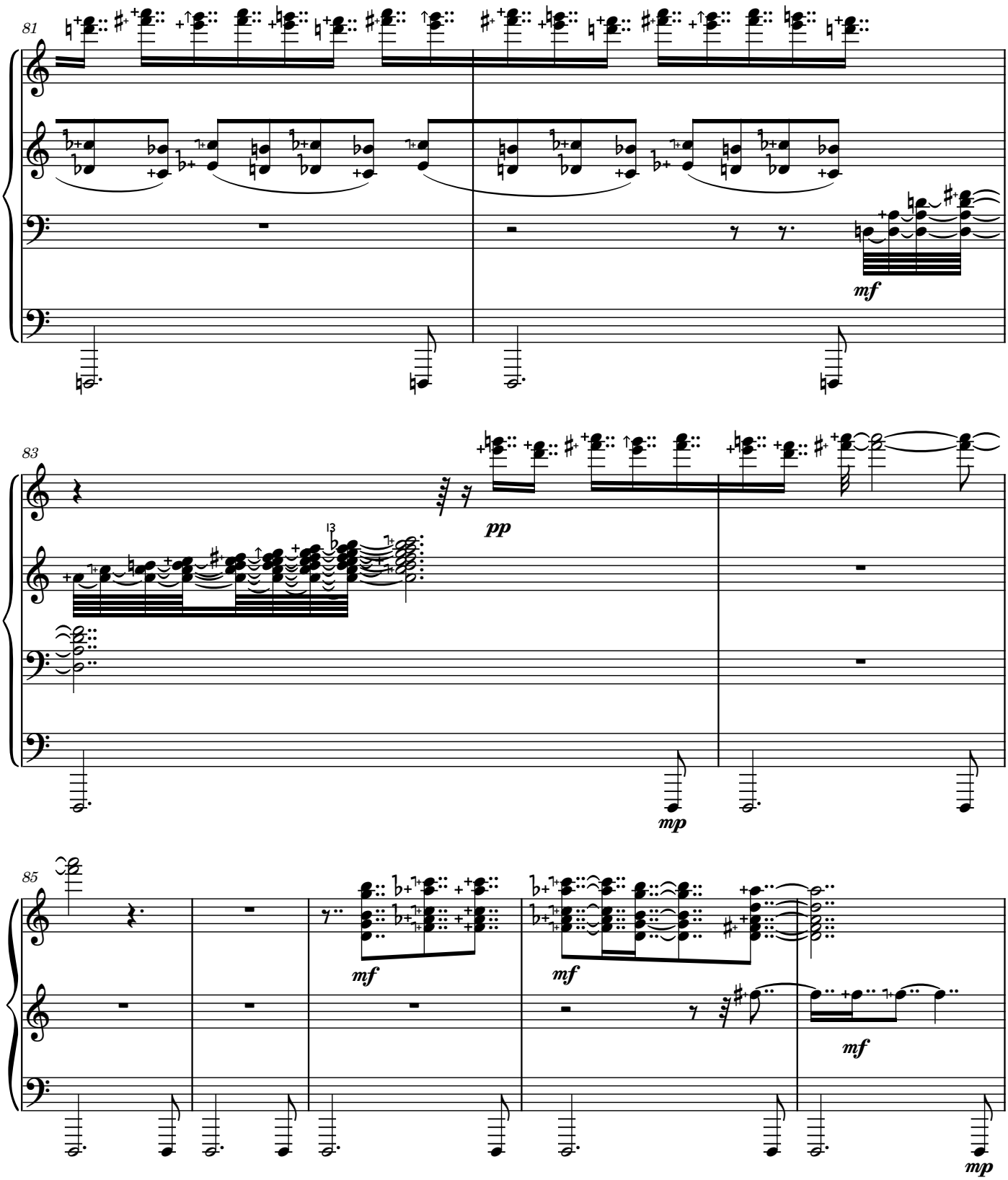

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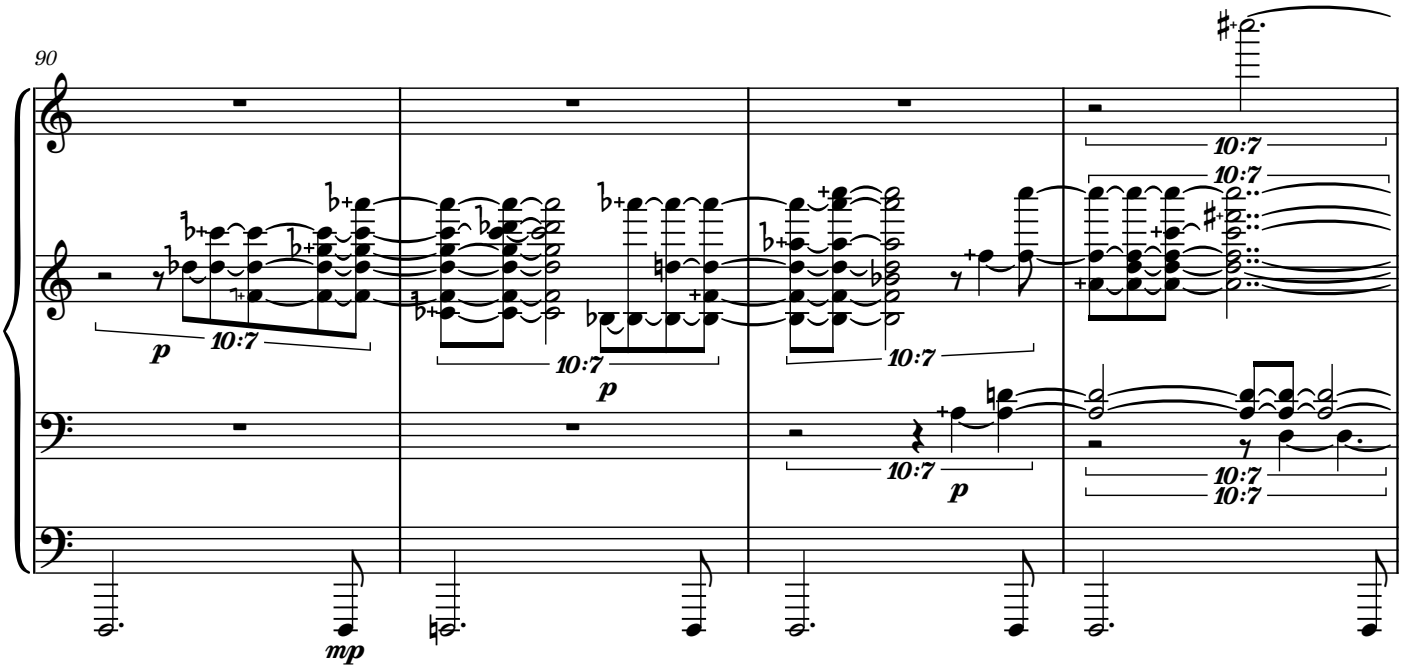

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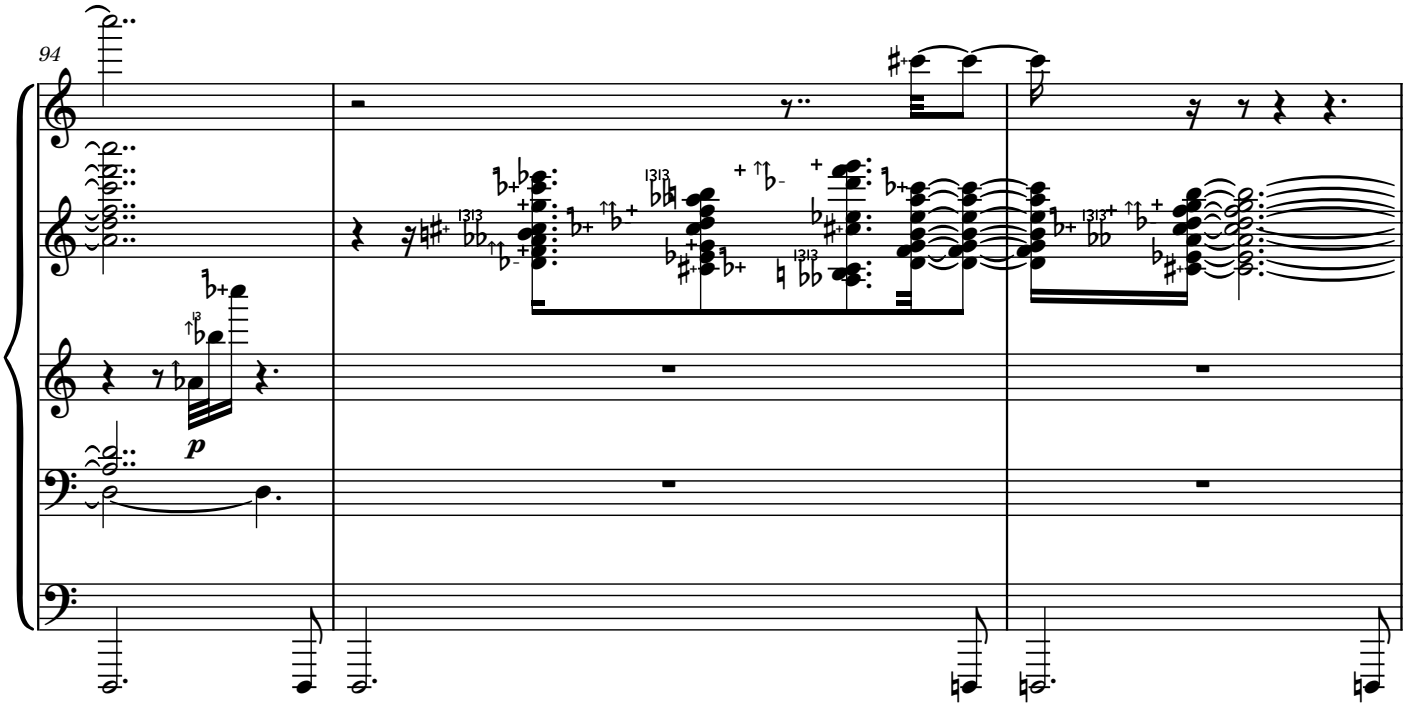

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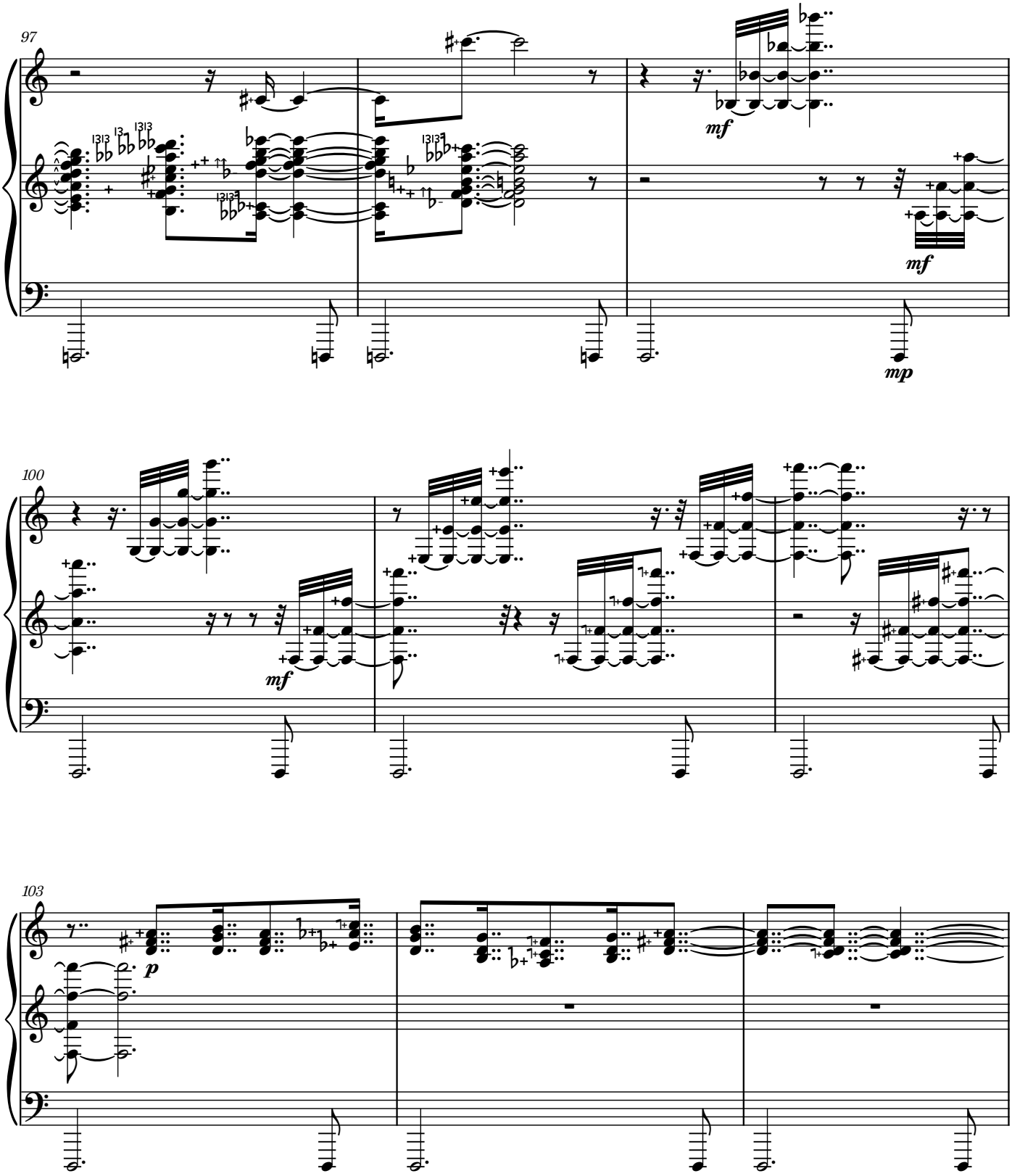

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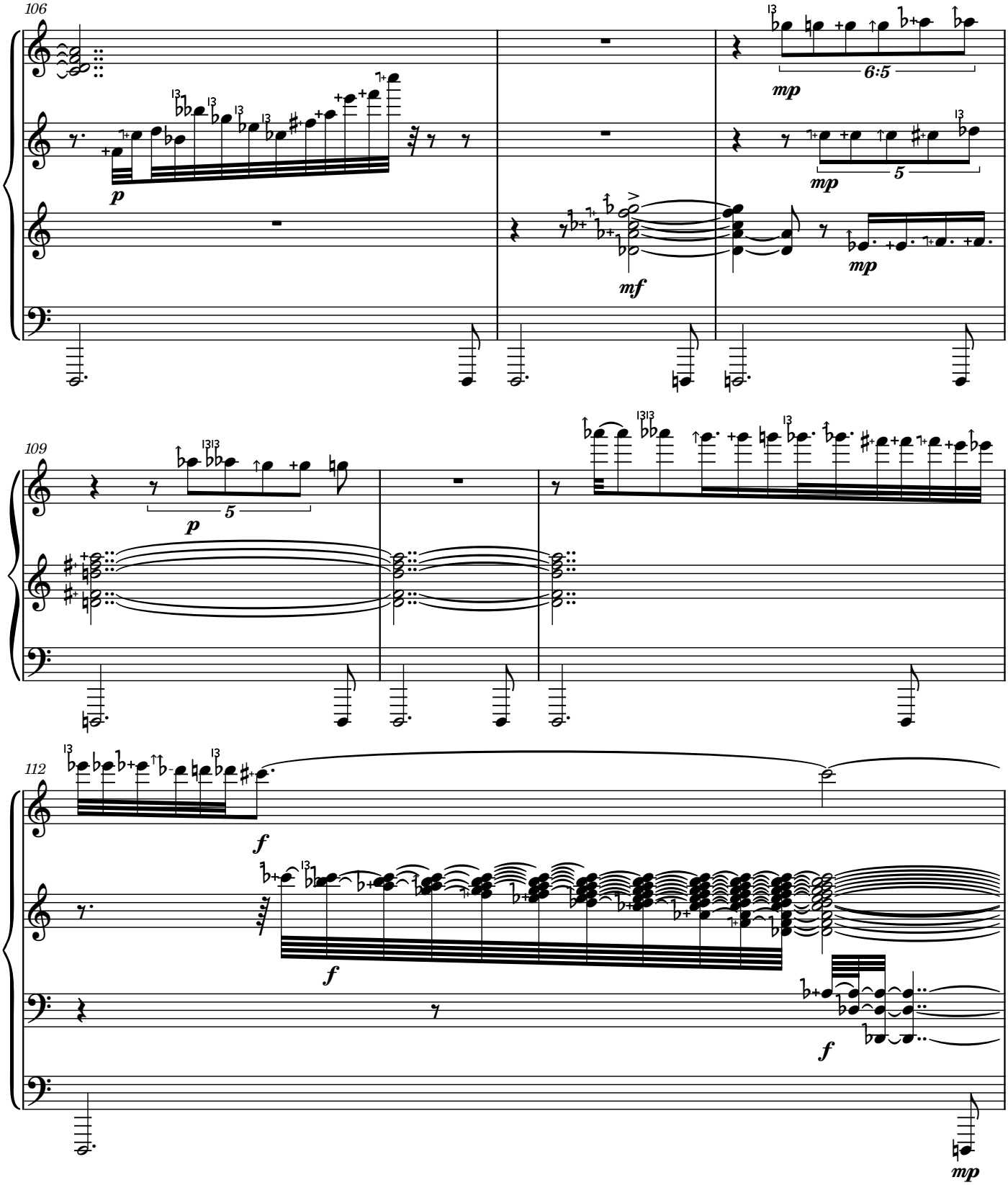

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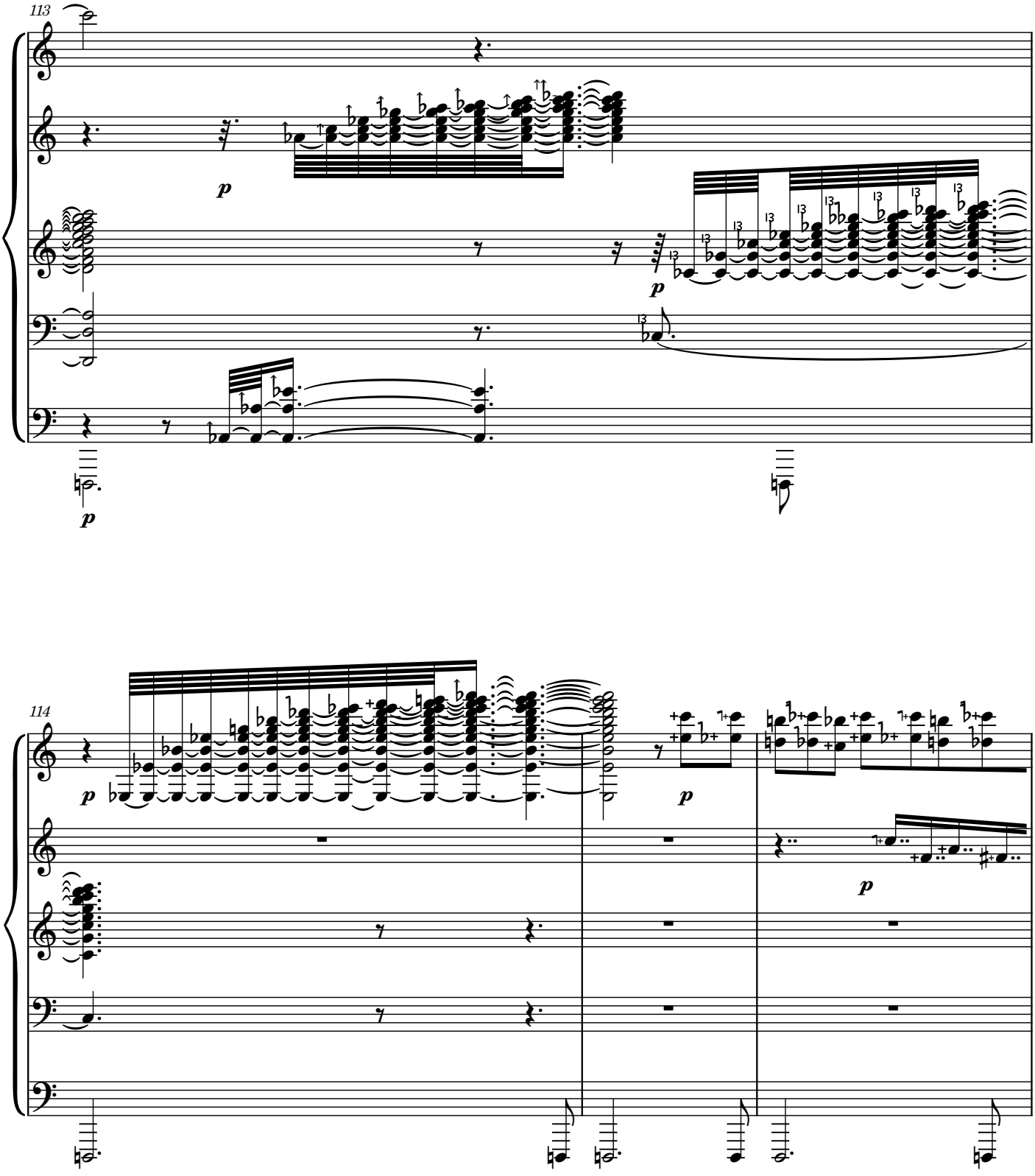

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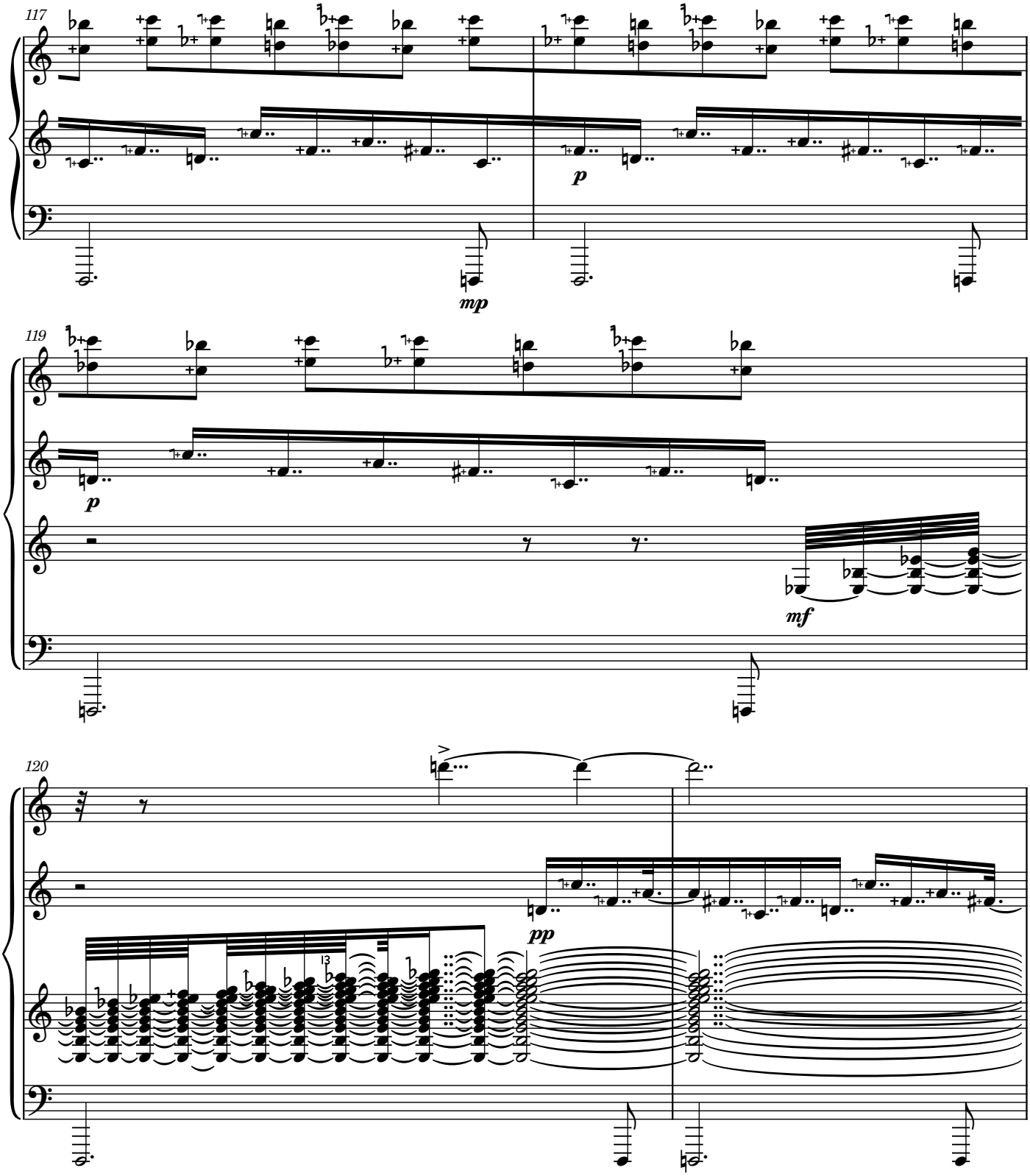

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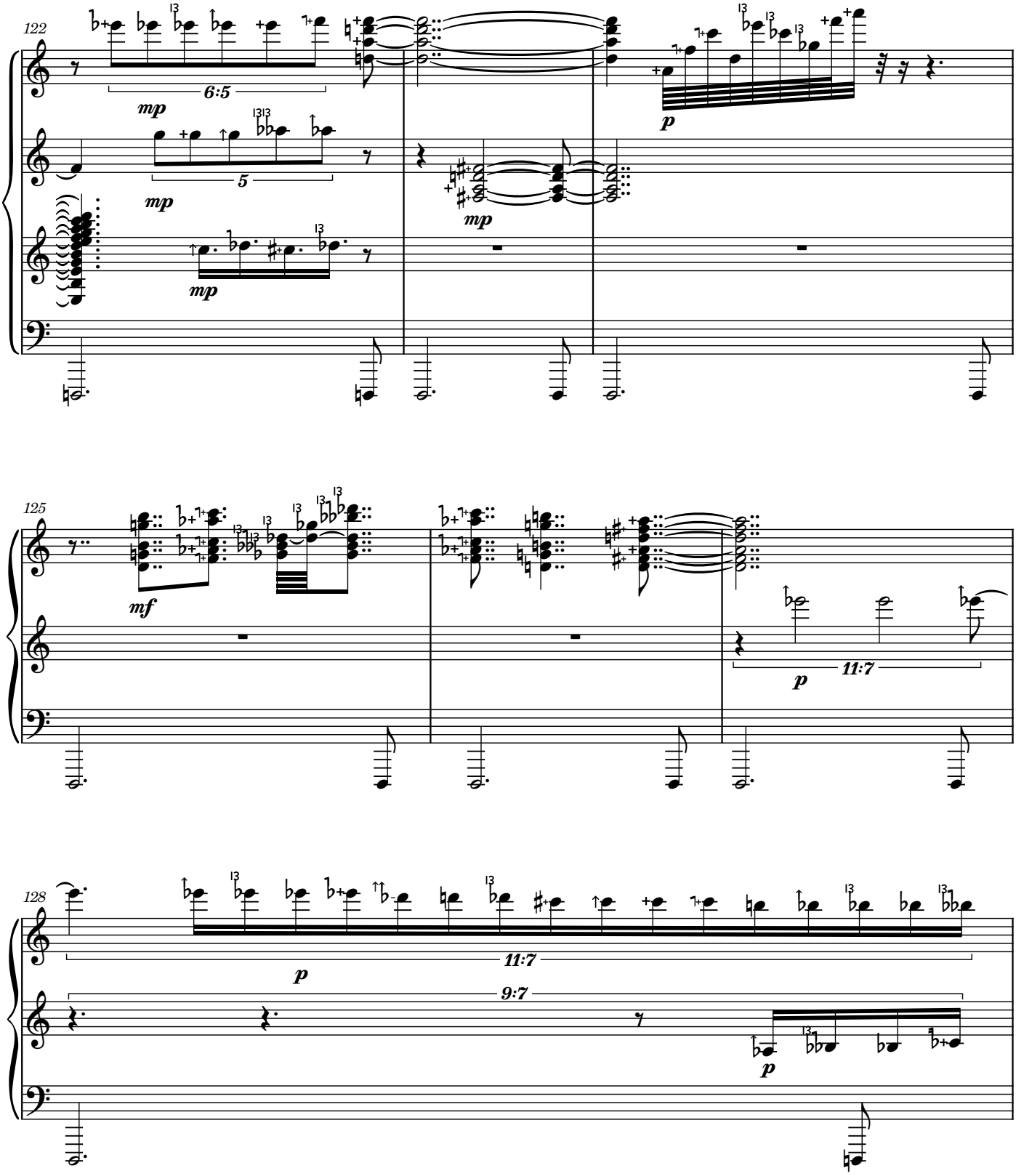

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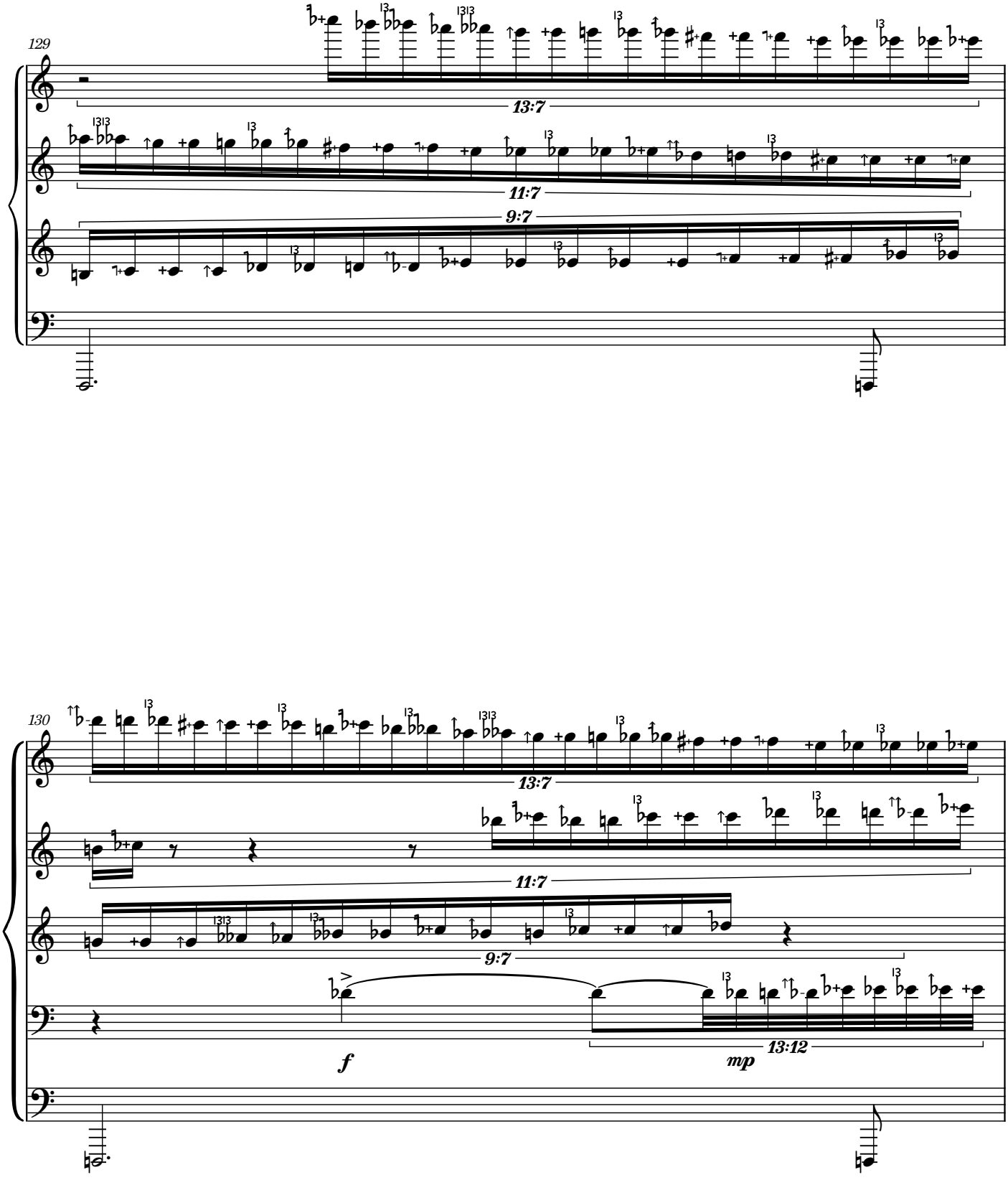

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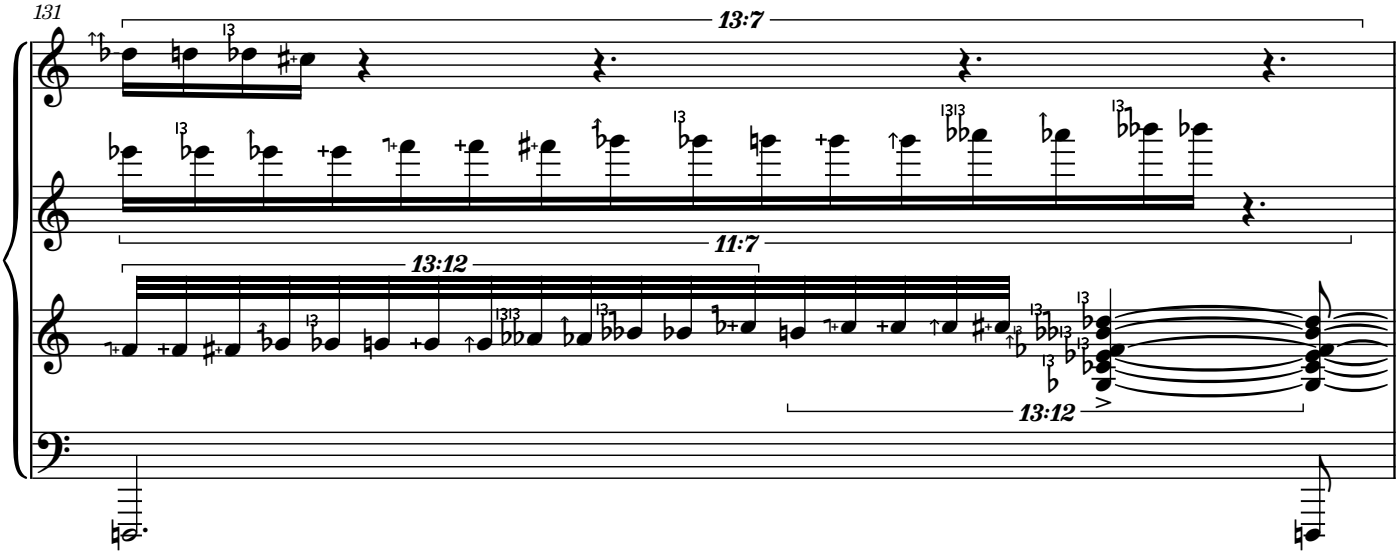

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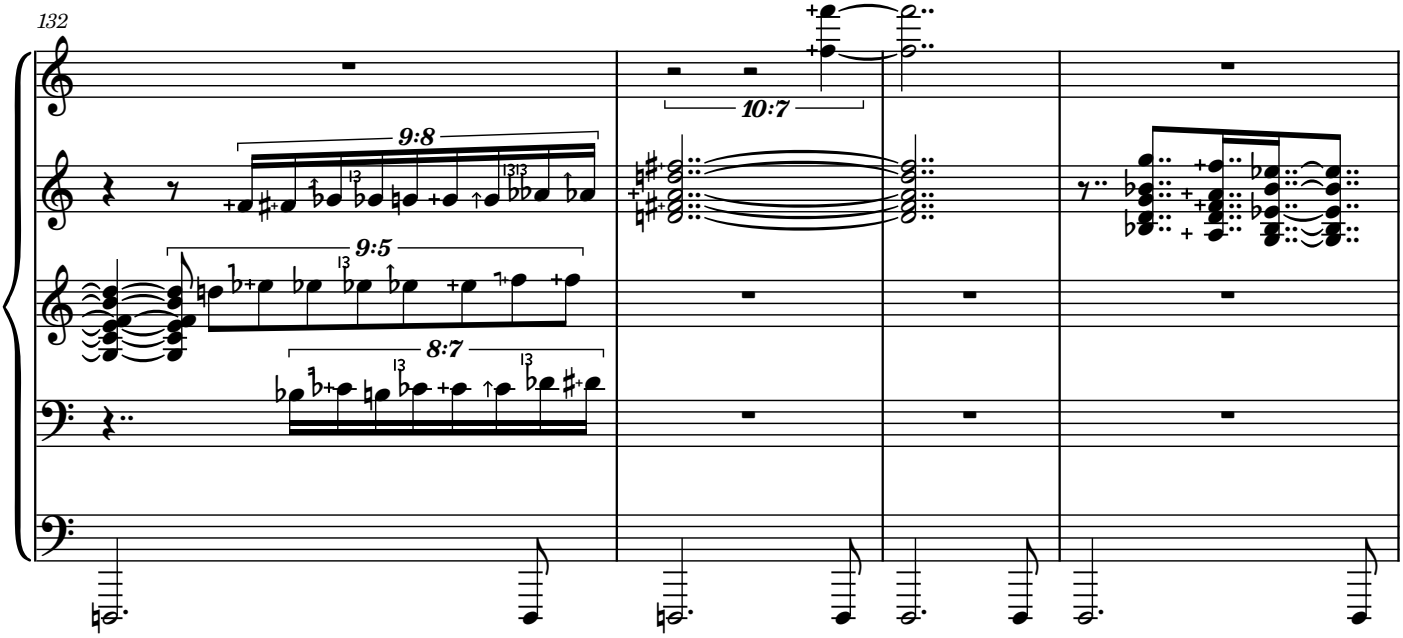

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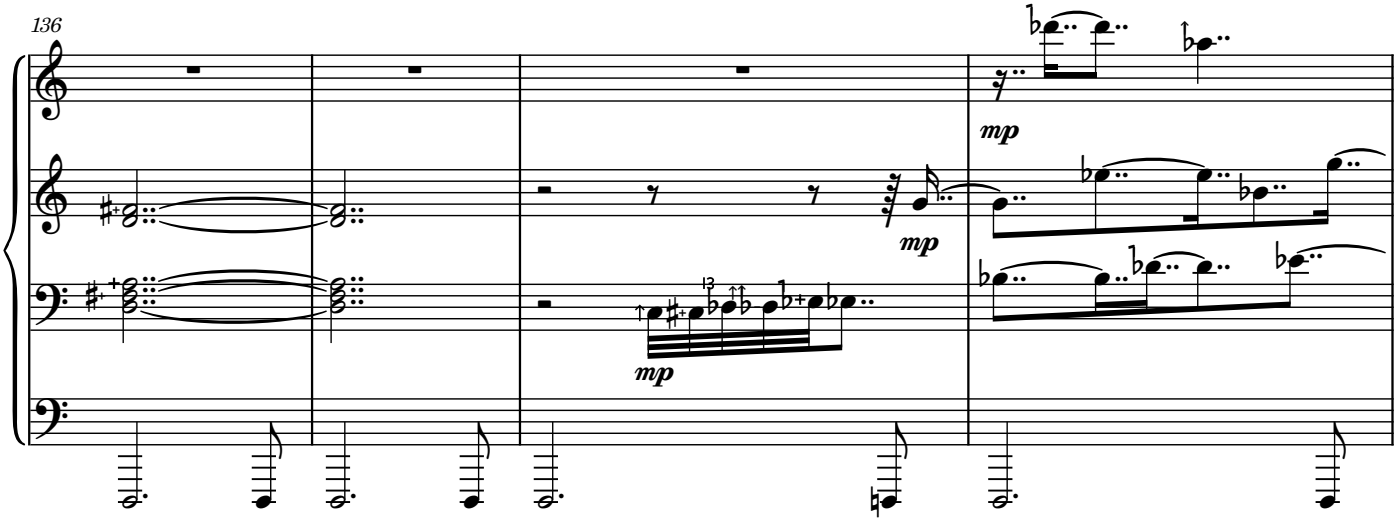

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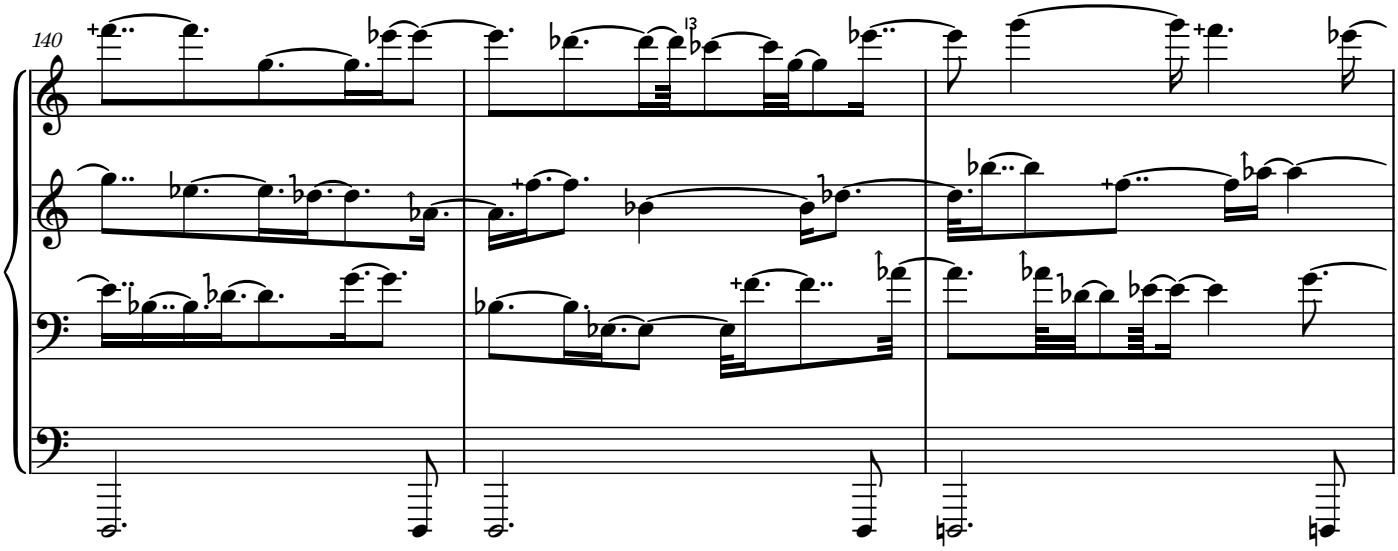

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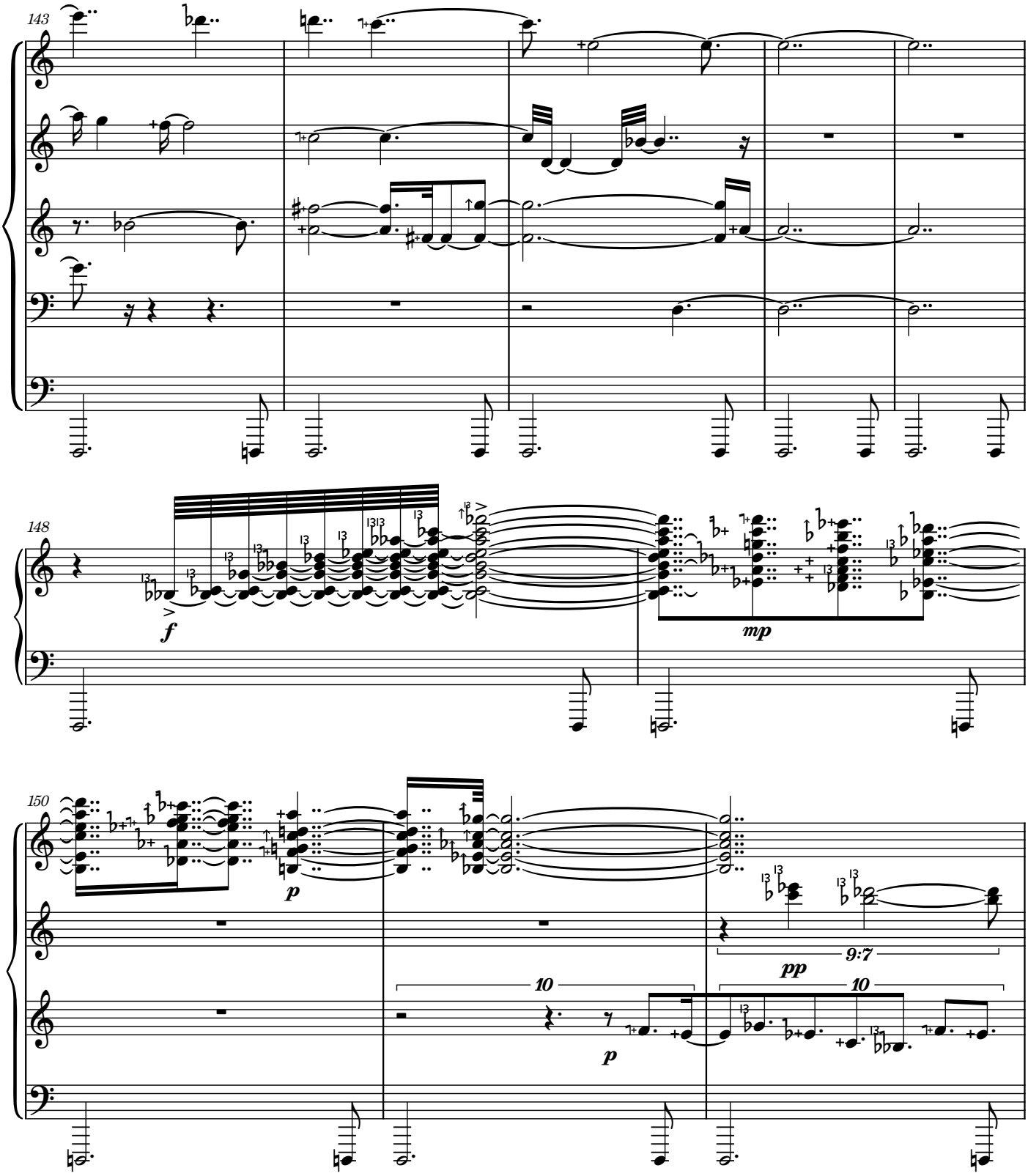

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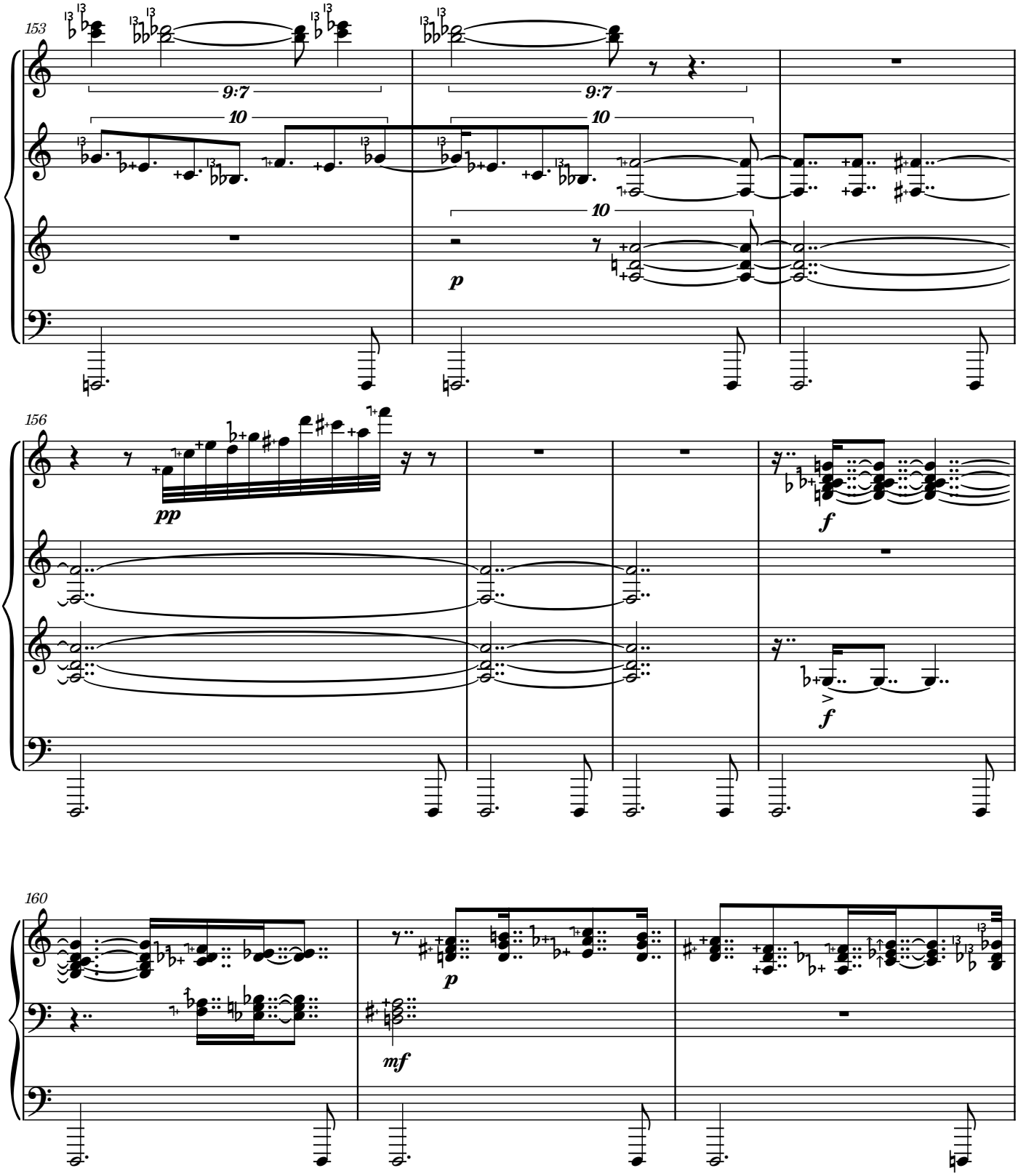

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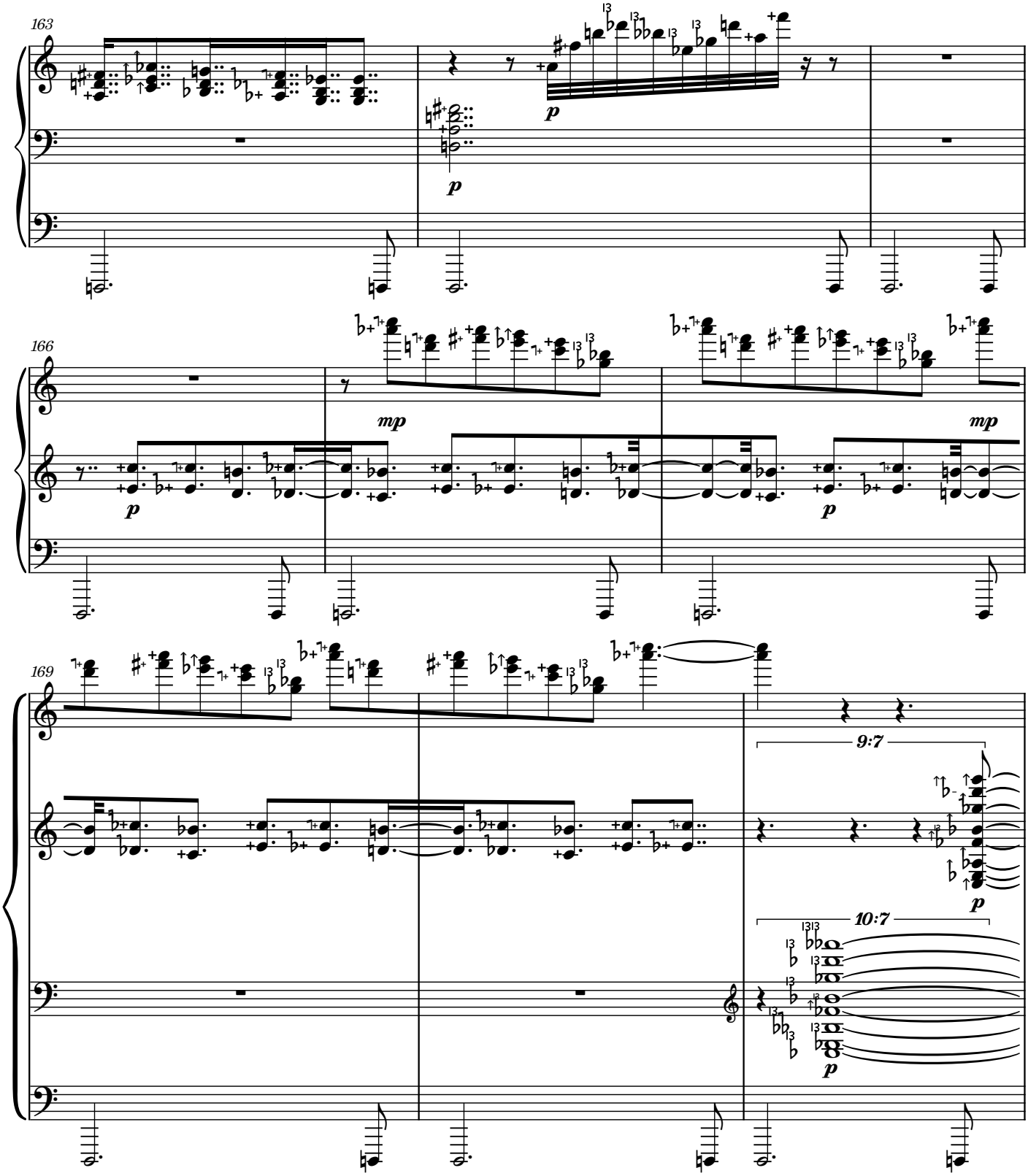

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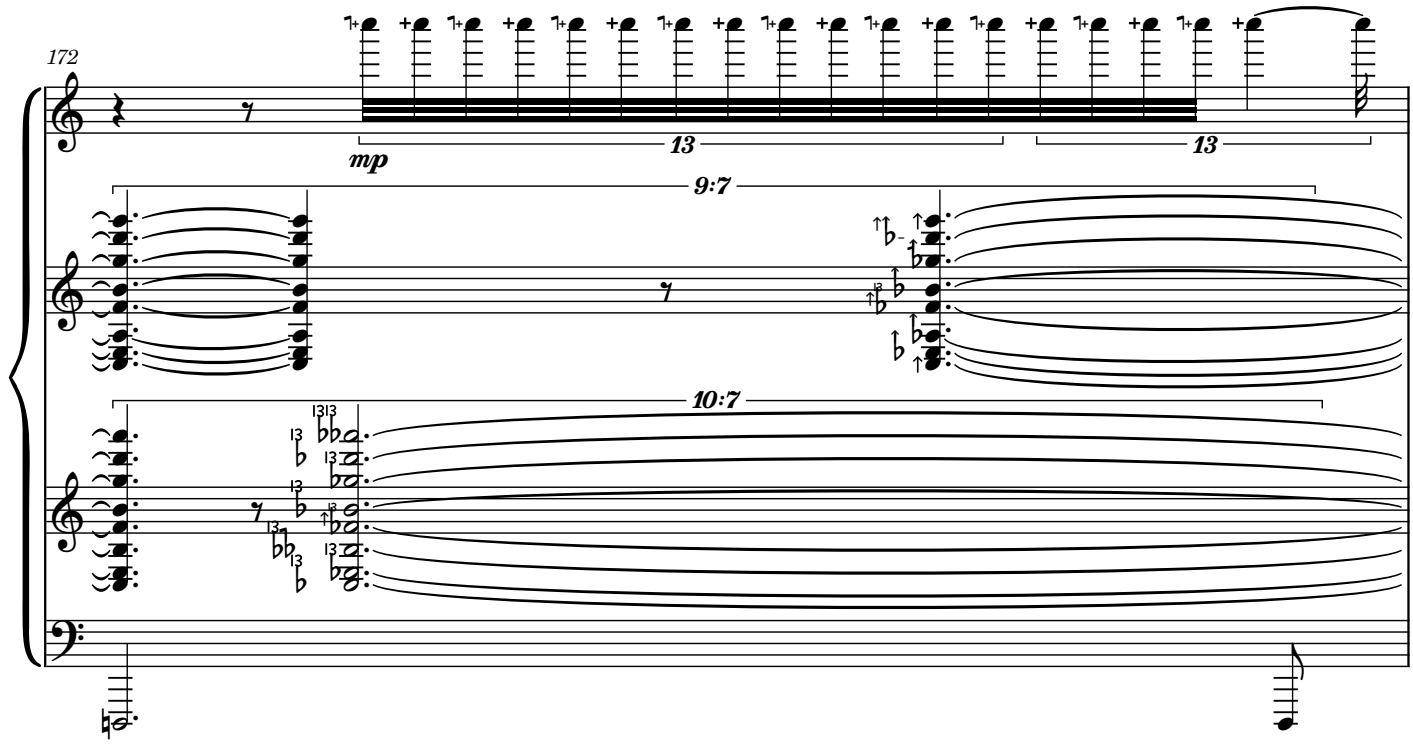

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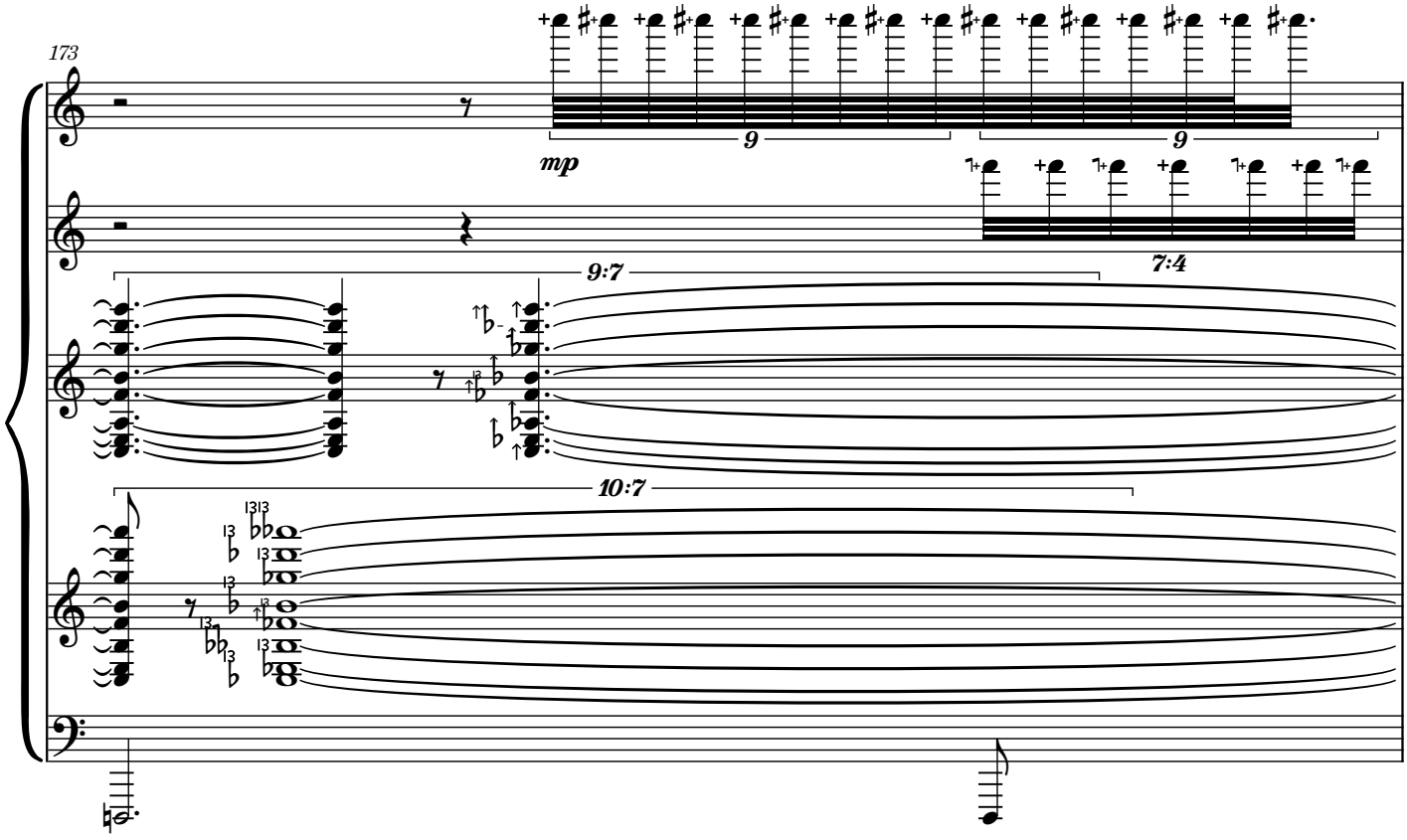

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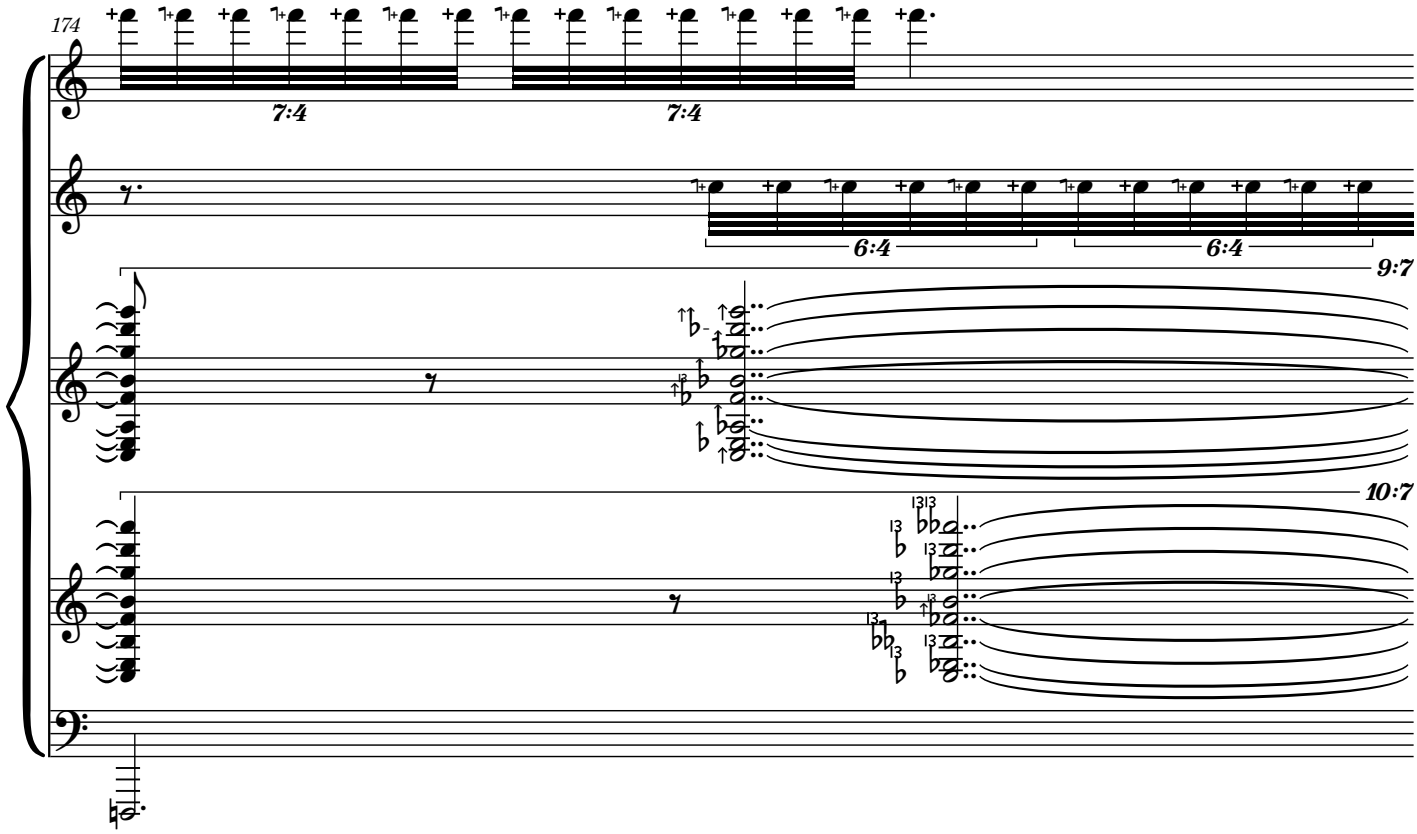

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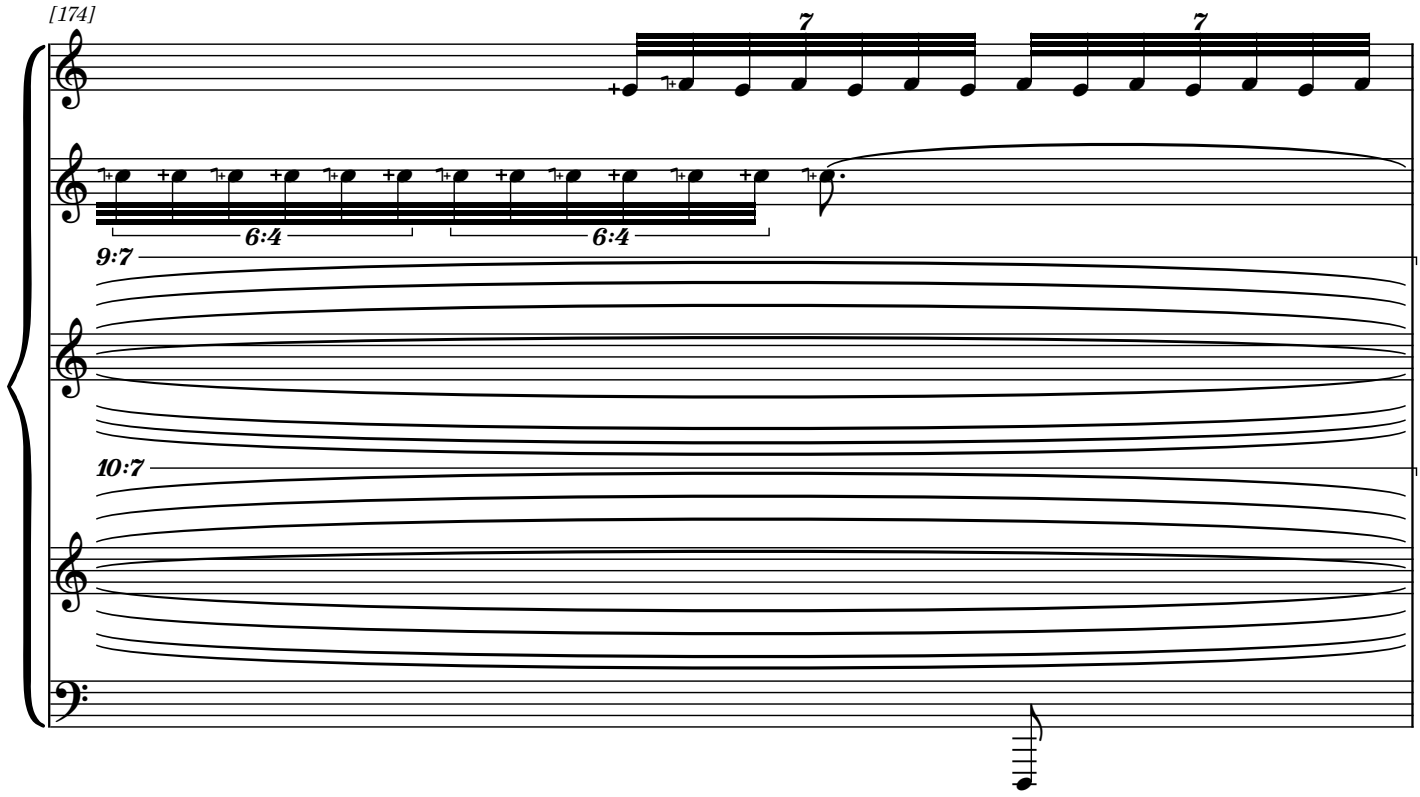

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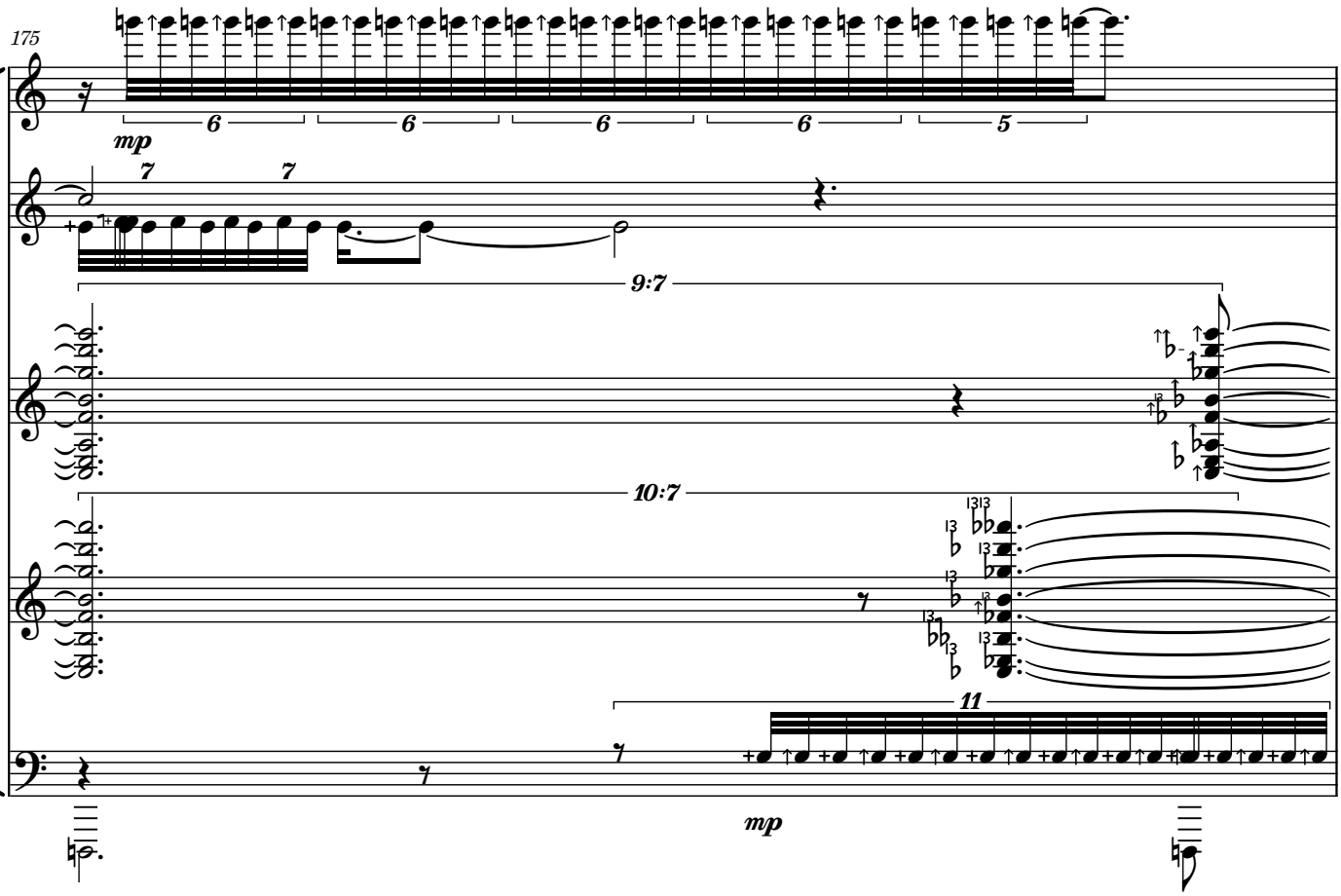

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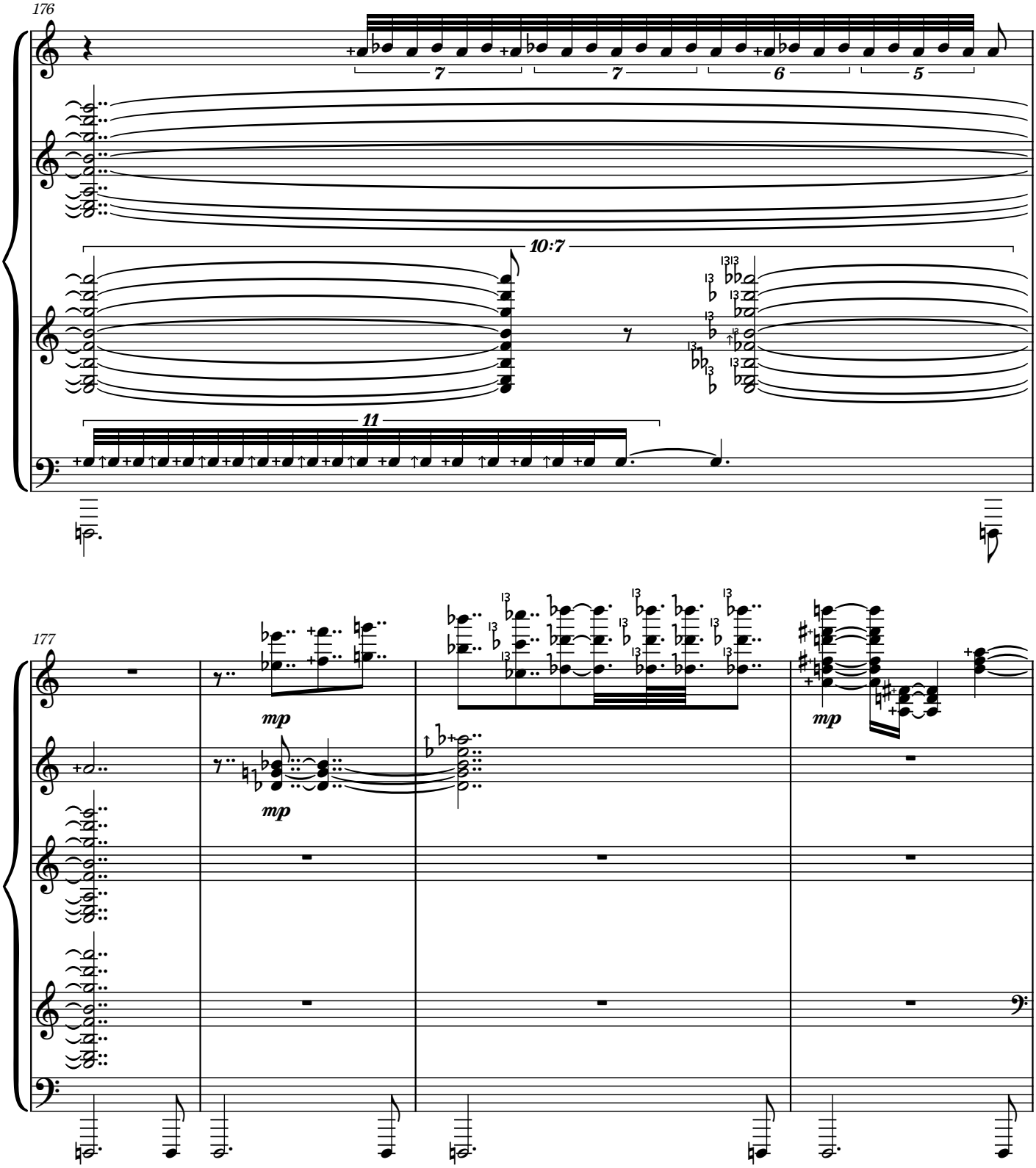

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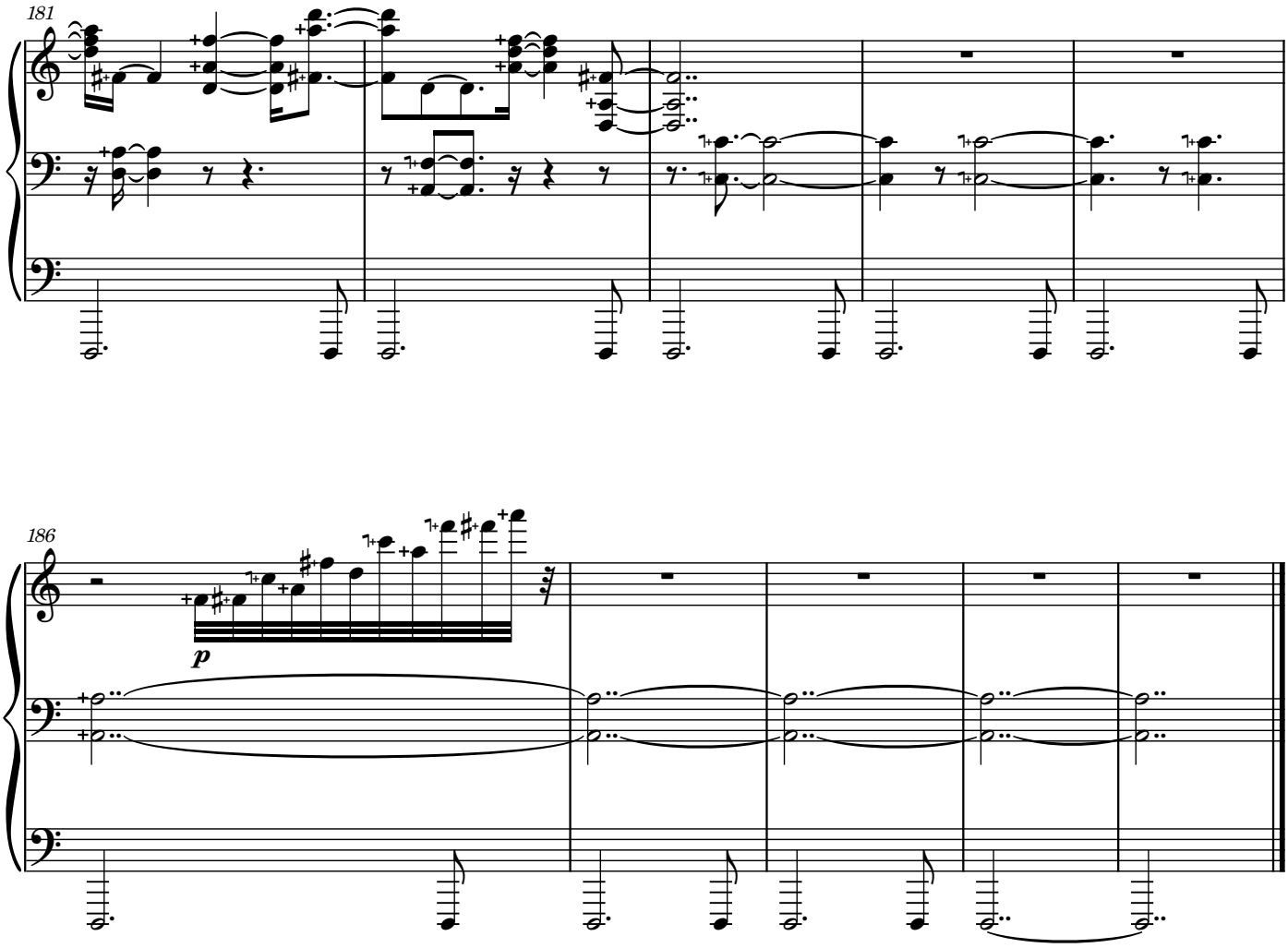

173
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7:4
9:7
10:7


174
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6:4
6:4
9:7
10:7


[174]
7
7
6:4
6:4
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10:7


175
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11
mp
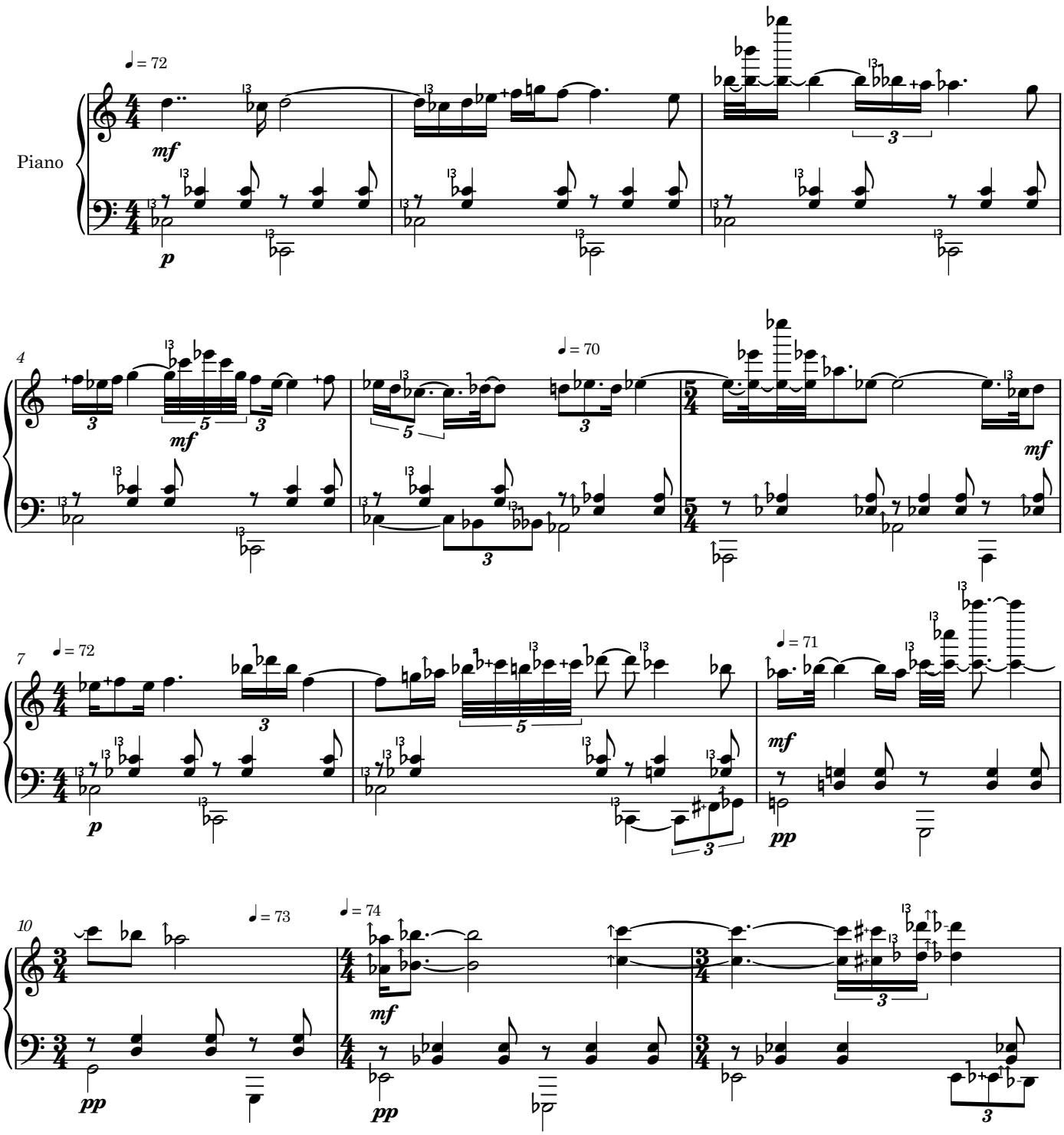

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177
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mp
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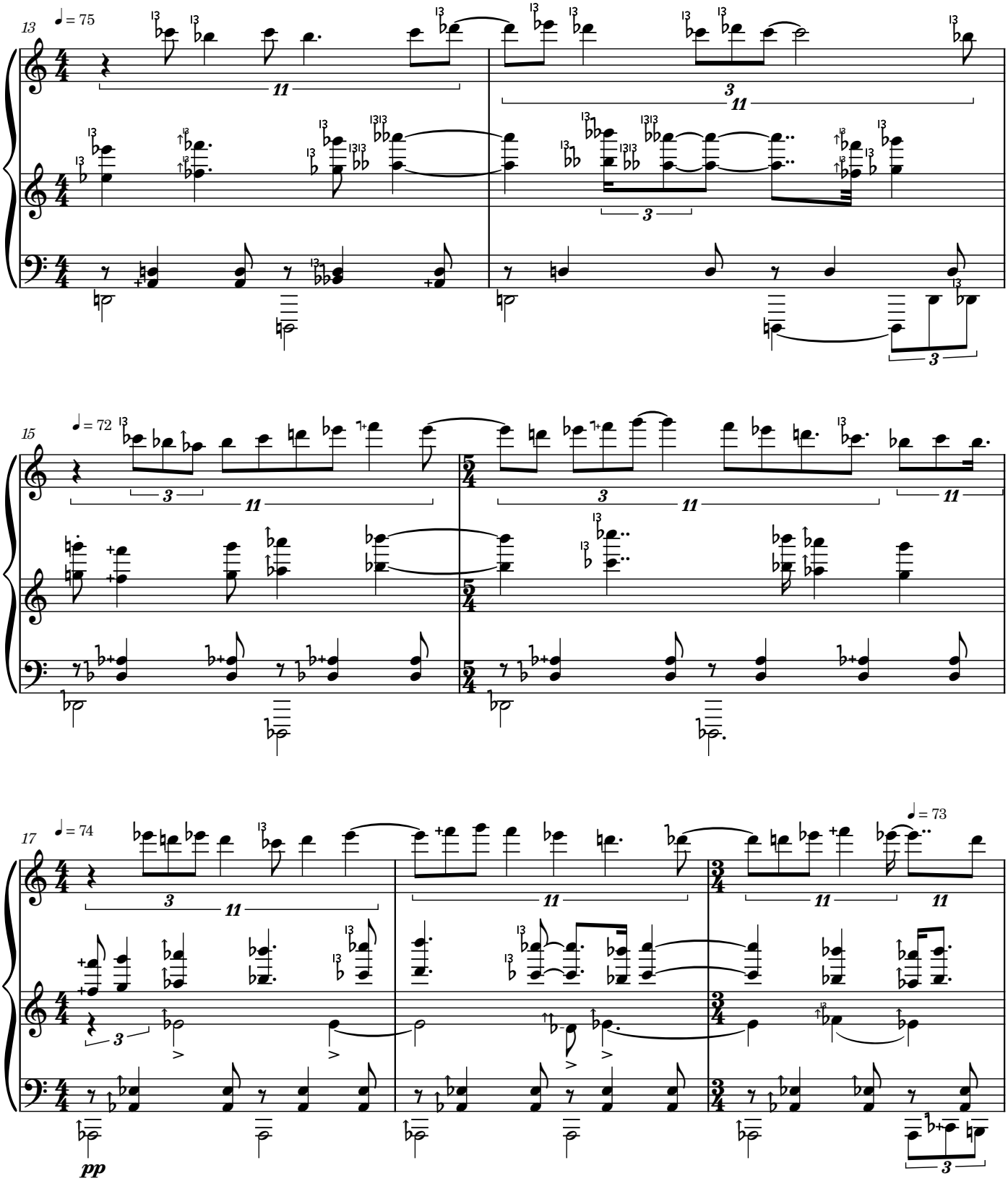


July 16 - August 10, 2021
Germantown, NY
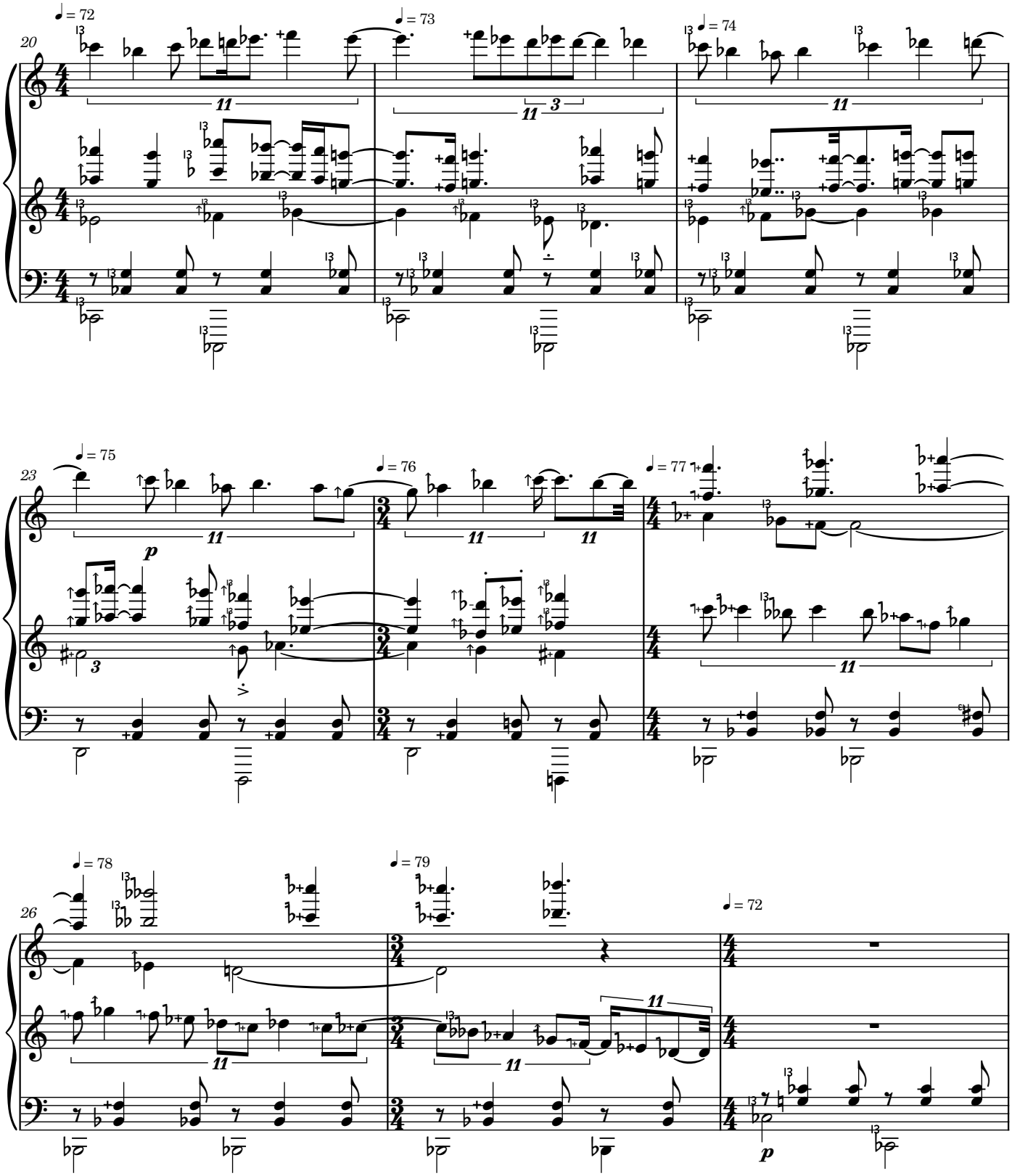
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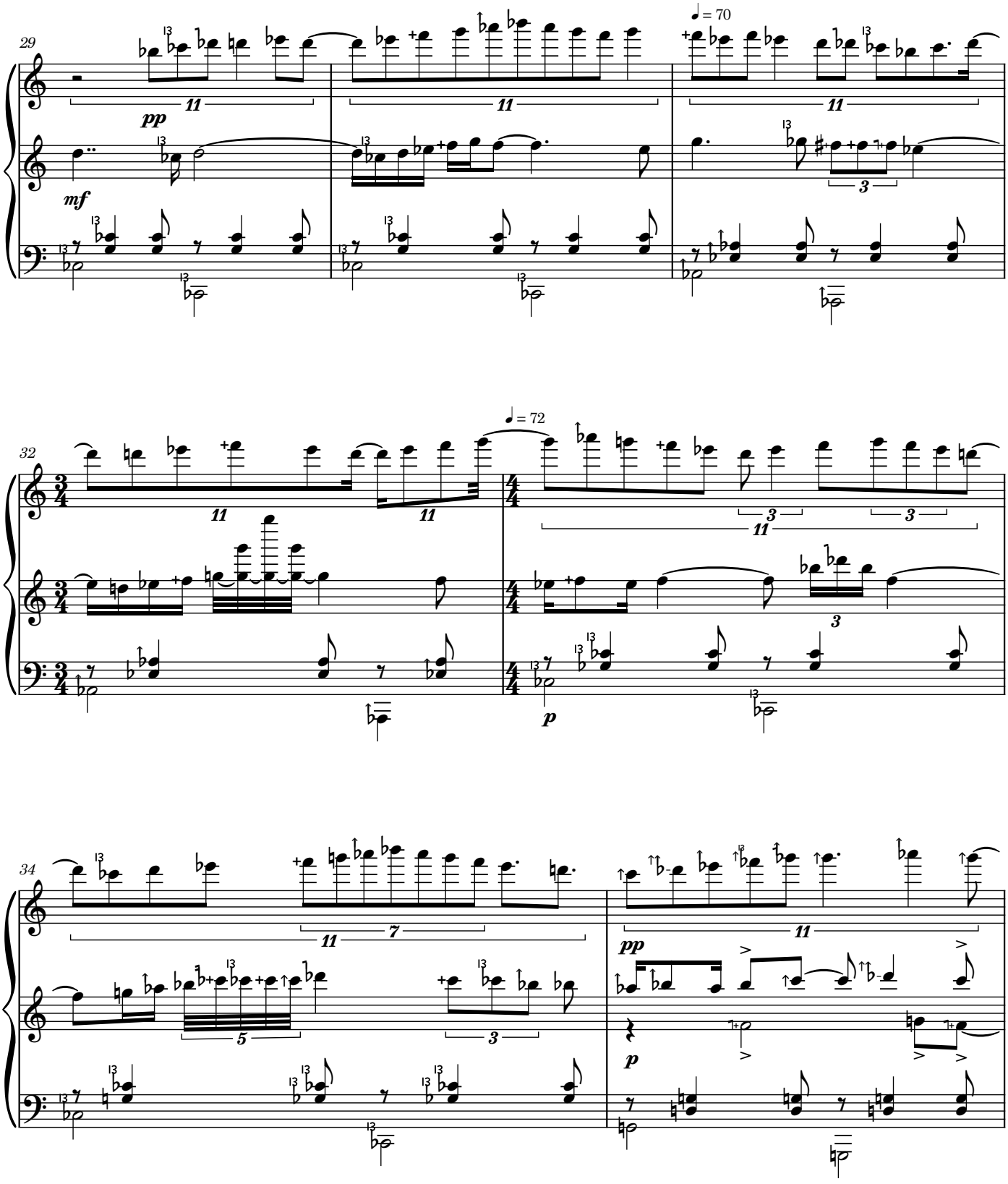
Kyle Gann
2017
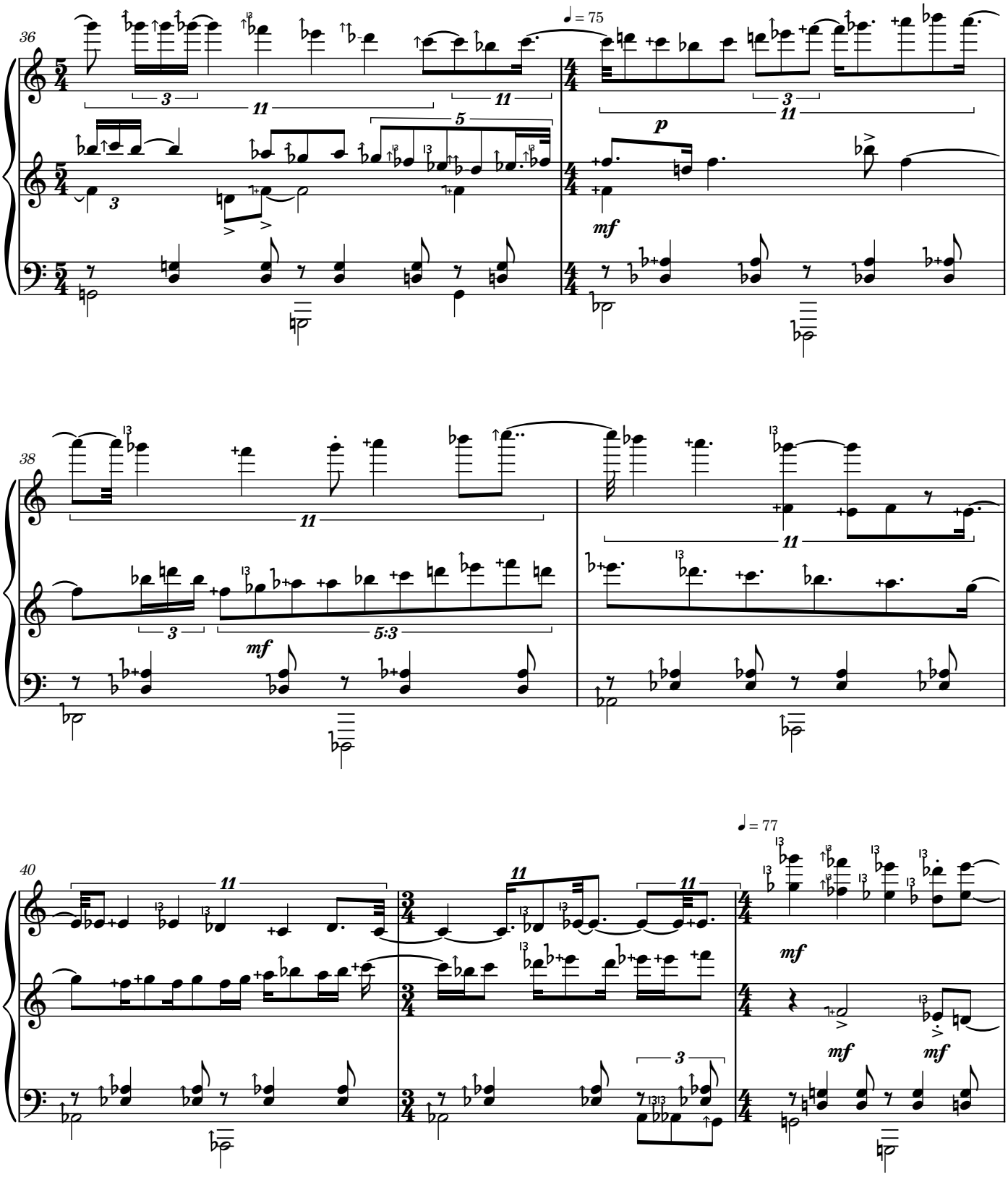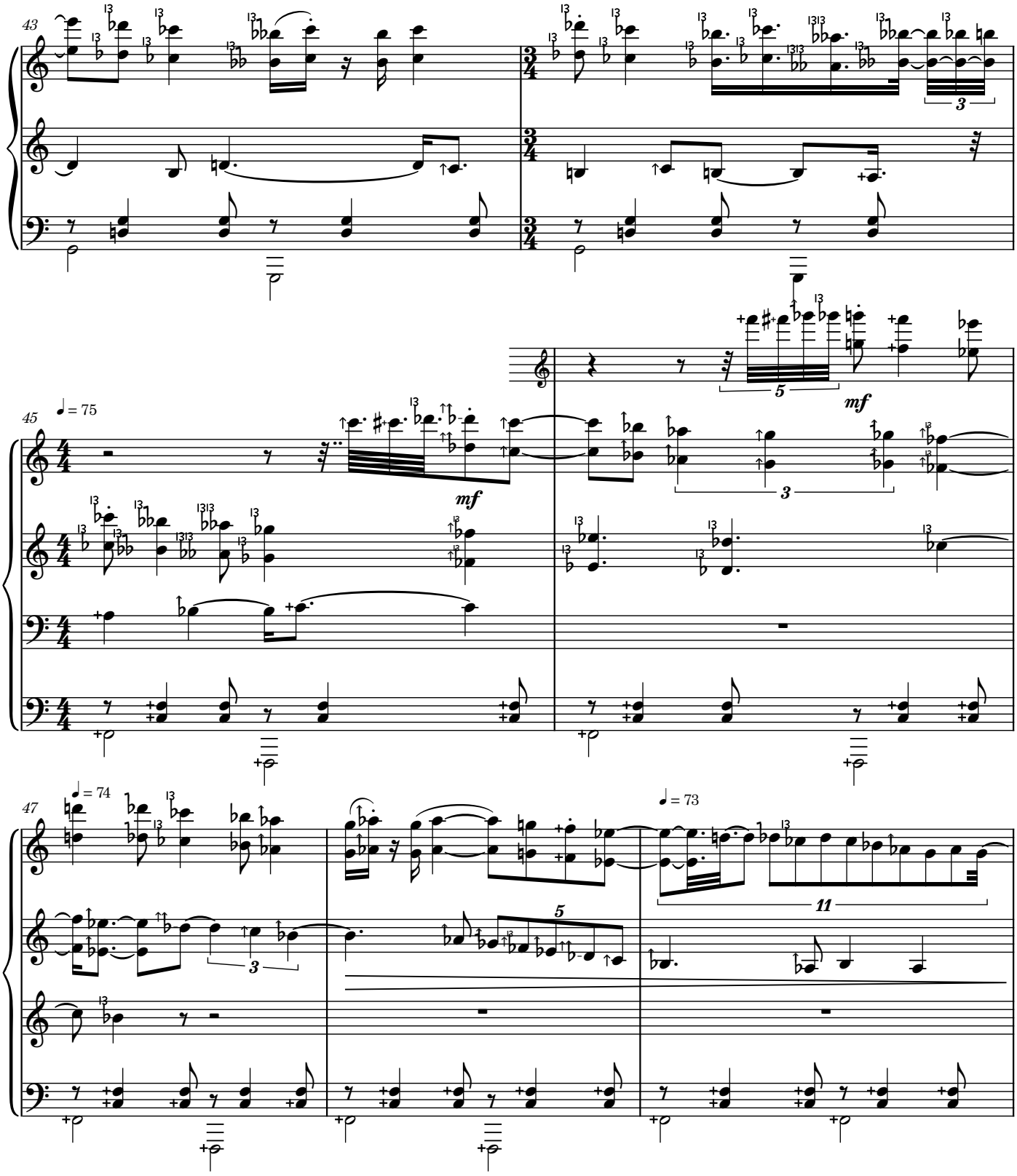


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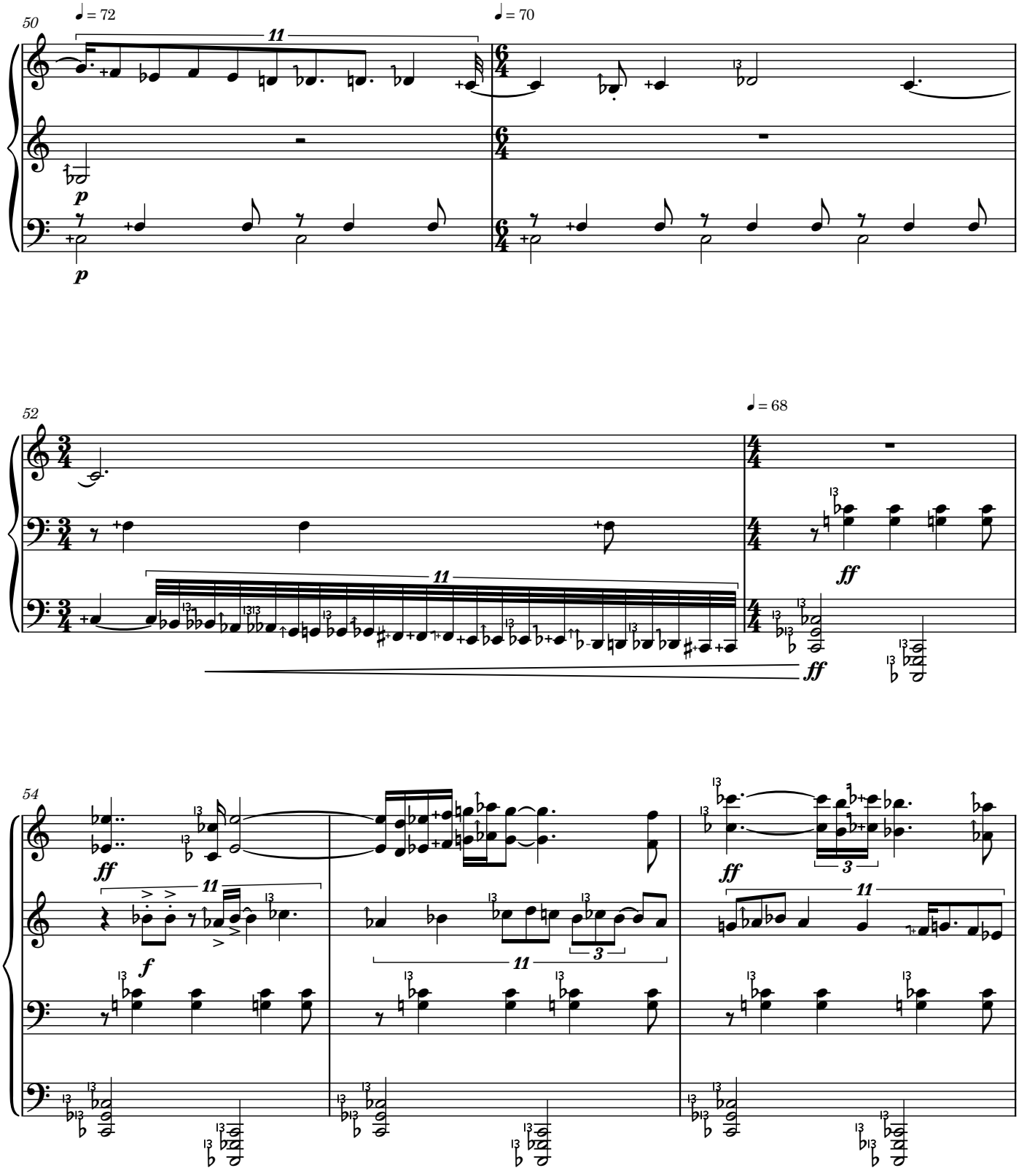

13
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15
♩ = 72
17
♩ = 74
♩ = 73
pp

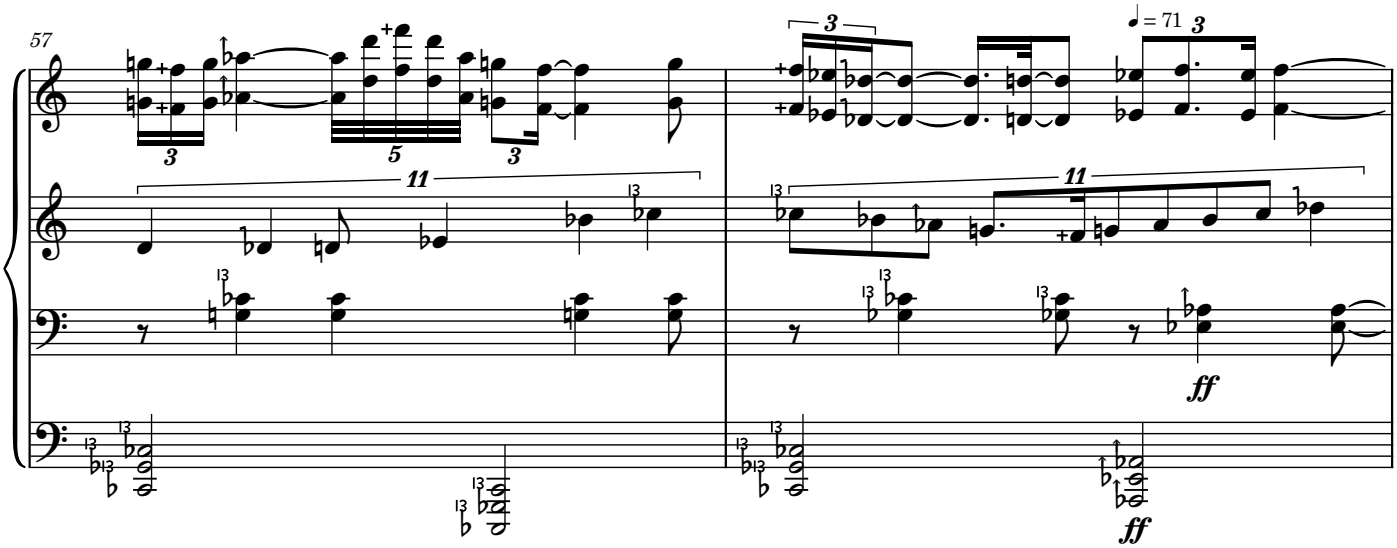

20
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♩ = 73
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23
♩ = 75
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26
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p
p
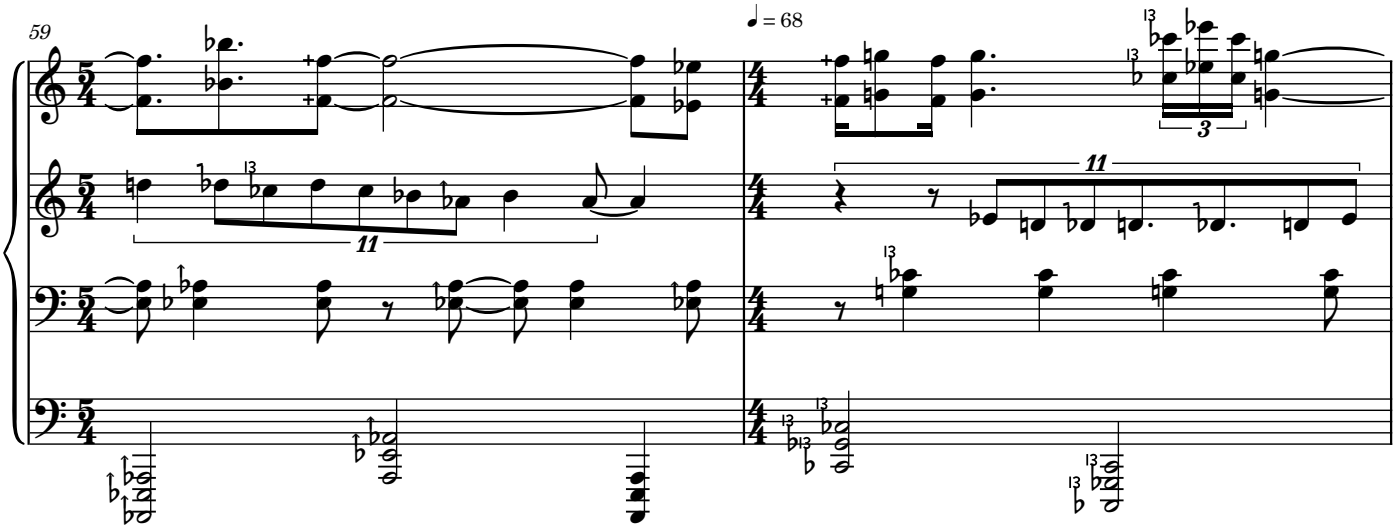

29
pp
mf
11
3
♩ = 70
32
♩ = 72
p
34
7
5
pp
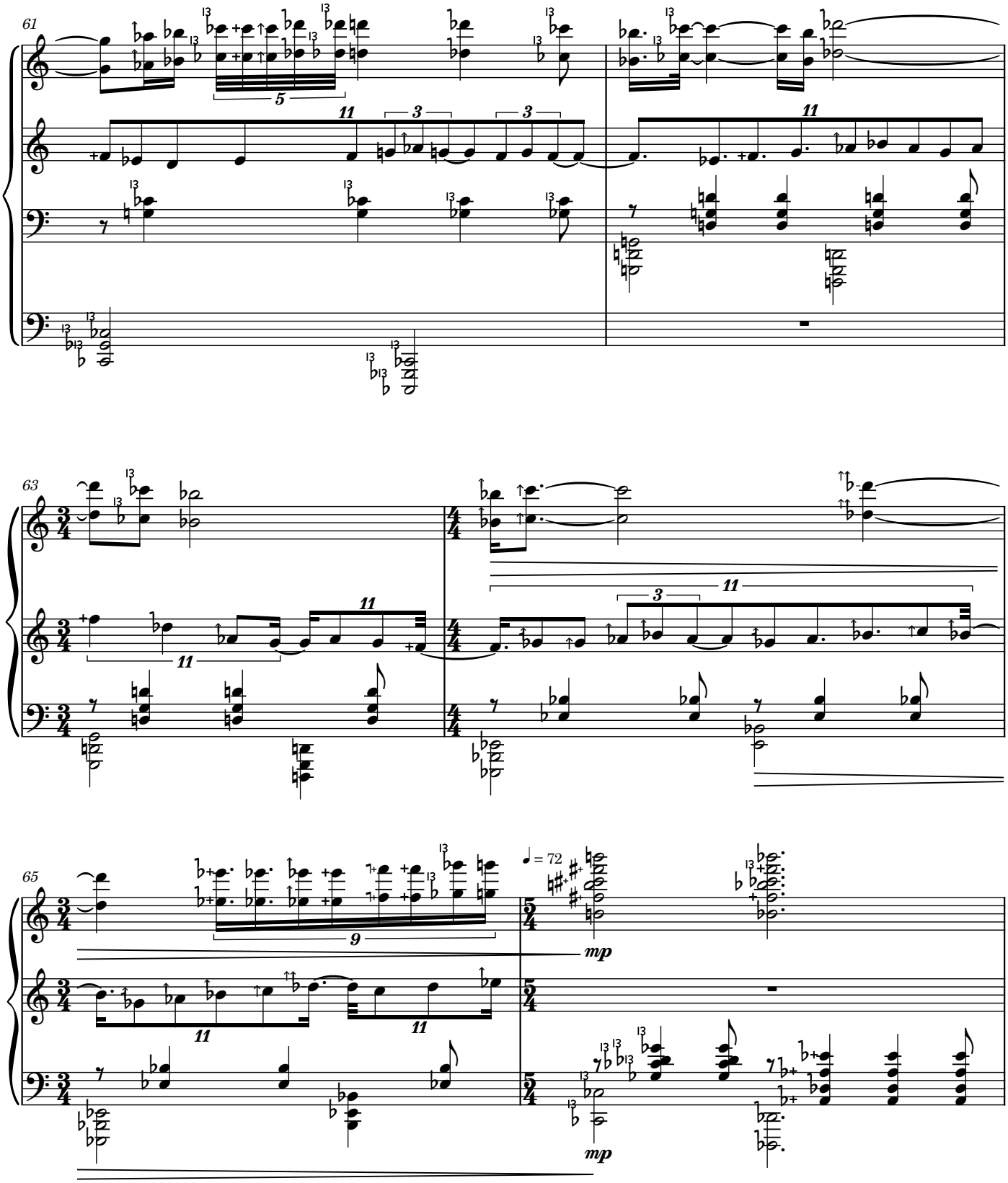

36
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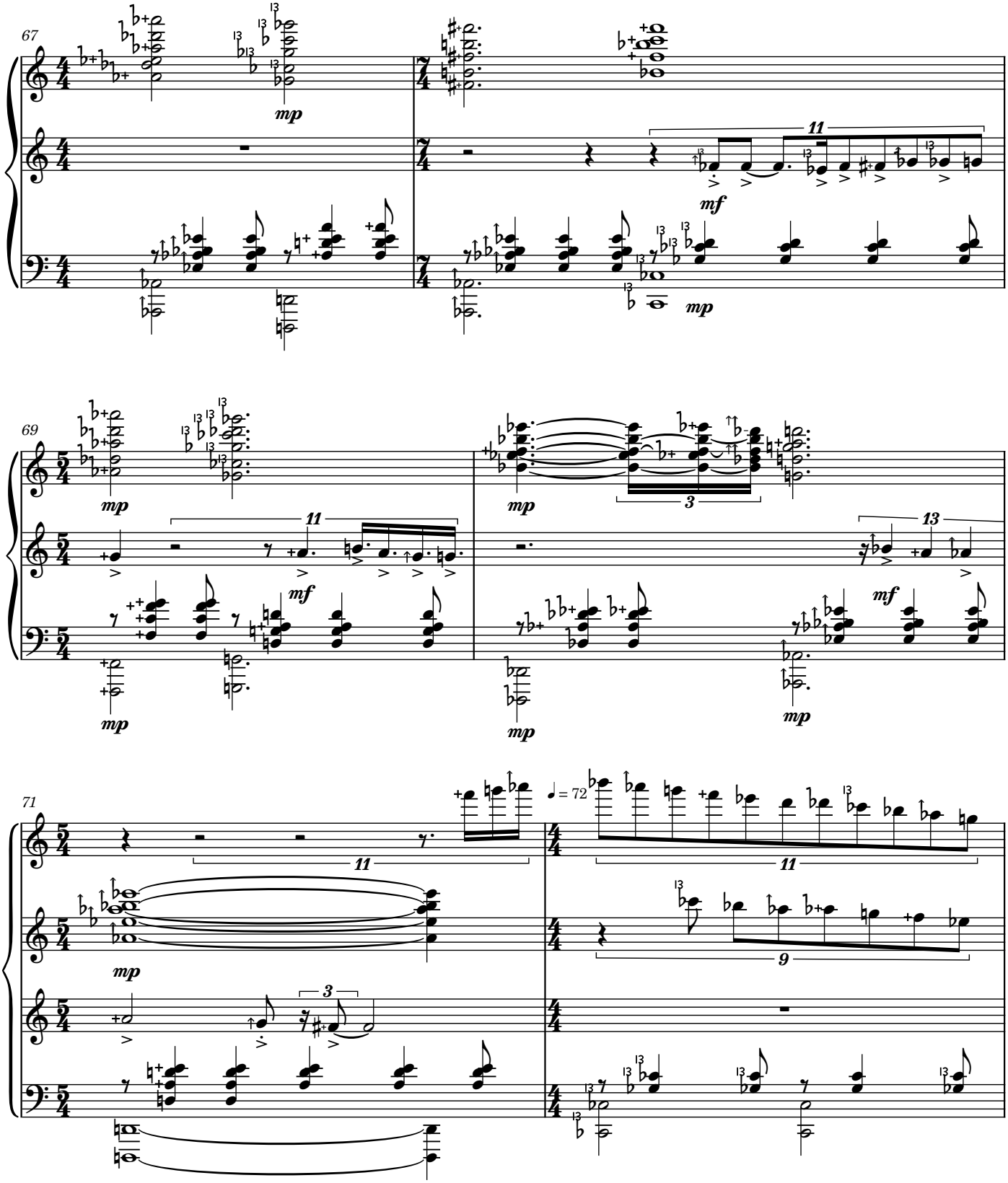

43
45
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mf
mf
47
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♩ = 73
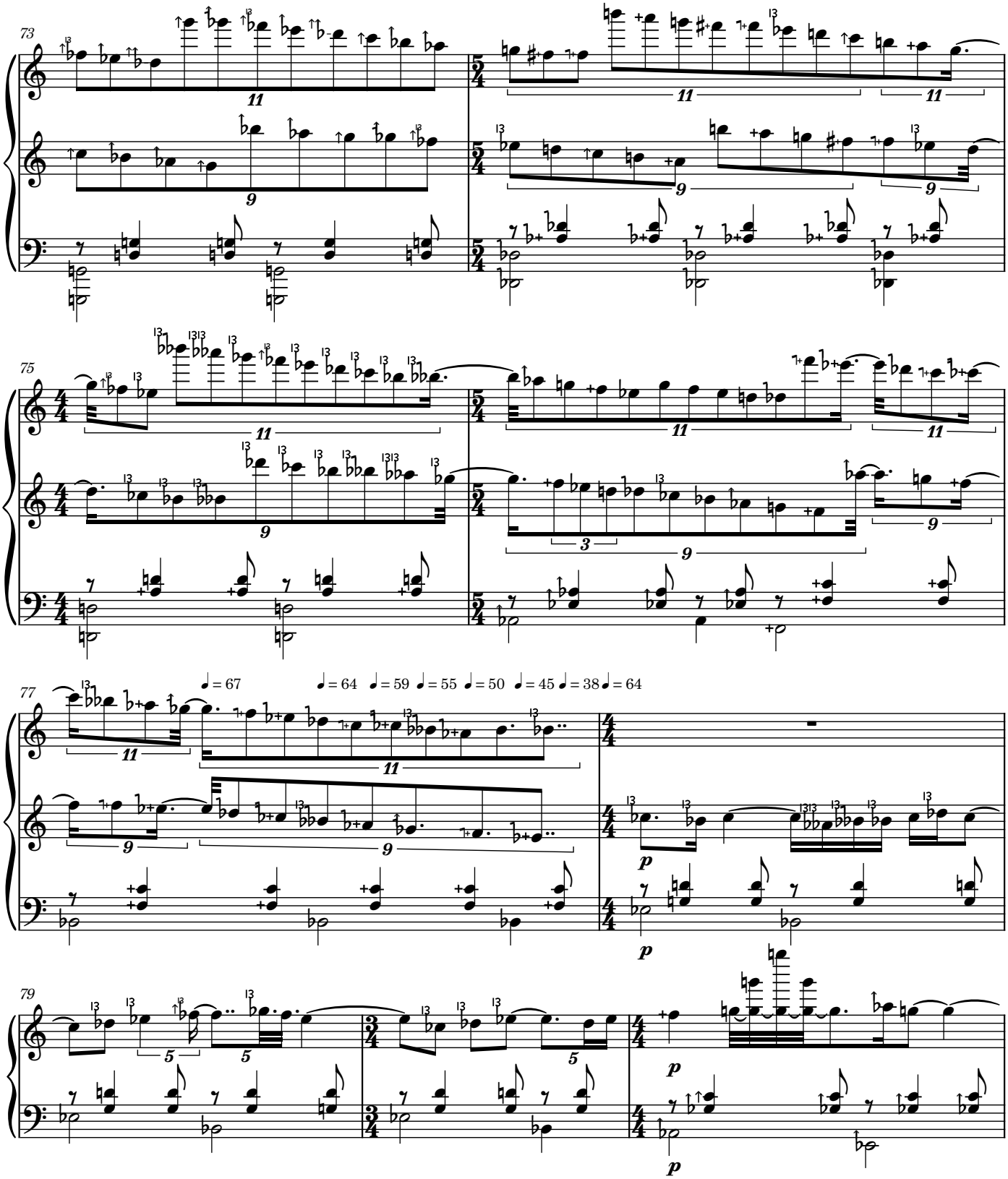

50
♩ = 72
11
♩ = 70
p
p
52
♩ = 68
11
ff
ff
54
ff
11
f
3
11
3
ff
11
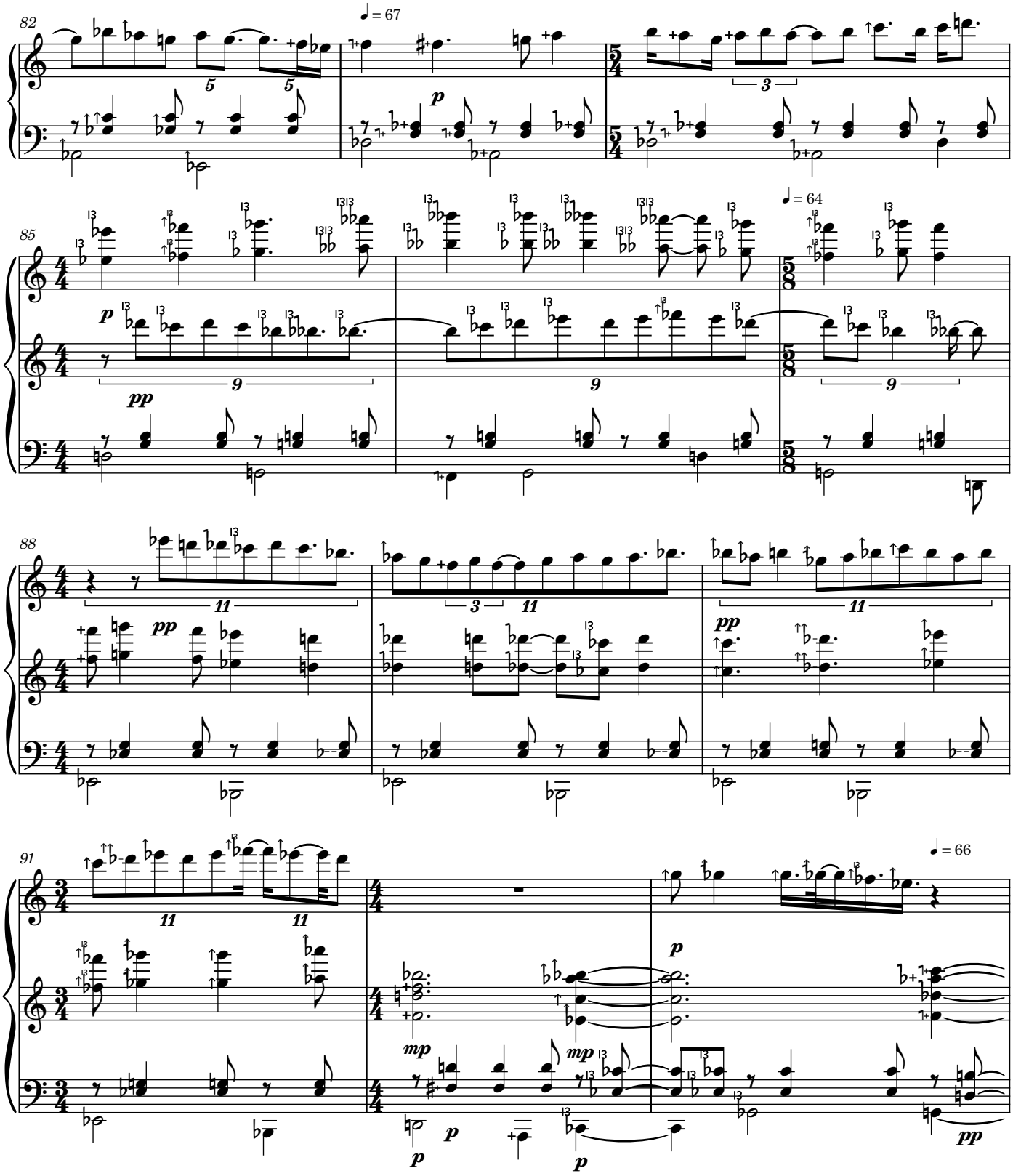

57
3
11
♩ = 71
3
11
ff
ff

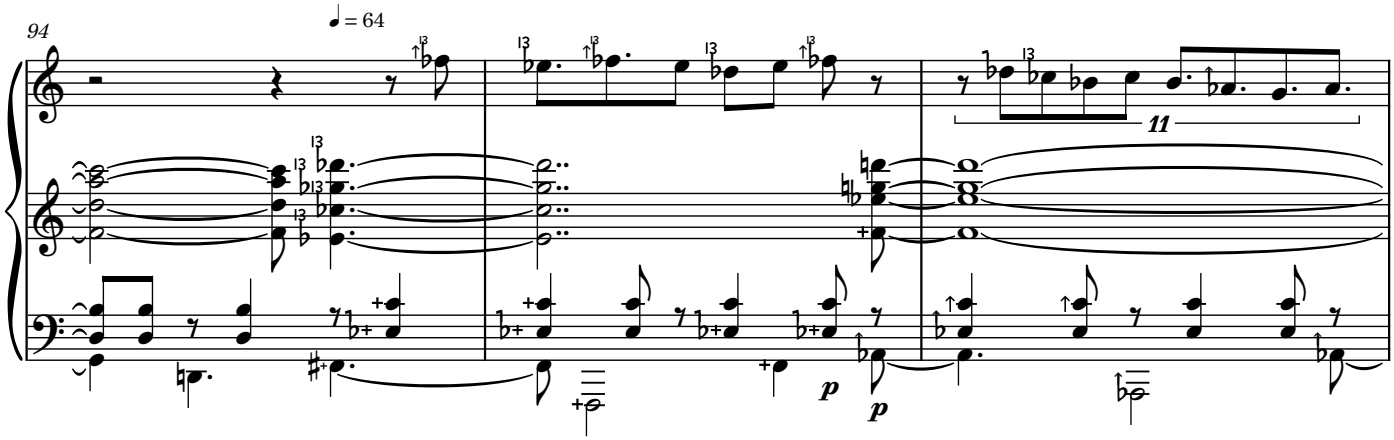

59
11
♩ = 68
3
11

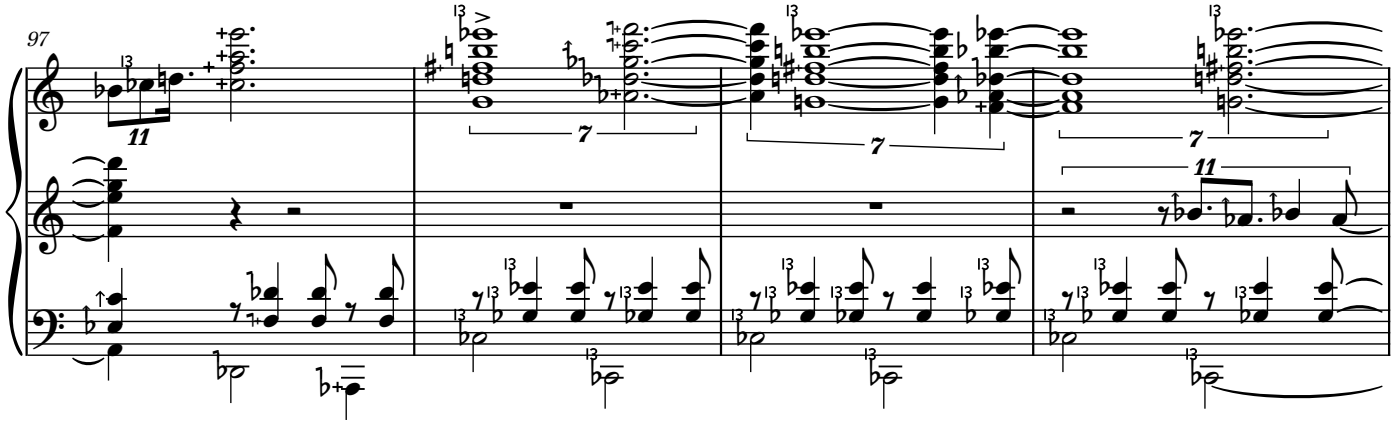

61
63
65
♩ = 72
mp
mp

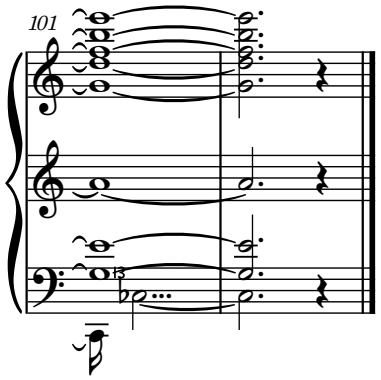

67
mp
11
mf
mp
69
mp
3
11
13
mf
mp
mp
mp
71
11
♩ = 72
11
mp
3
9


73
75
77
79
♩ = 67
♩ = 64
♩ = 59
♩ = 55
♩ = 50
♩ = 45
♩ = 38
♩ = 64
p
p
p


82
♩ = 67
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3
85
♩ = 64
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♩ = 66
mp
p
pp
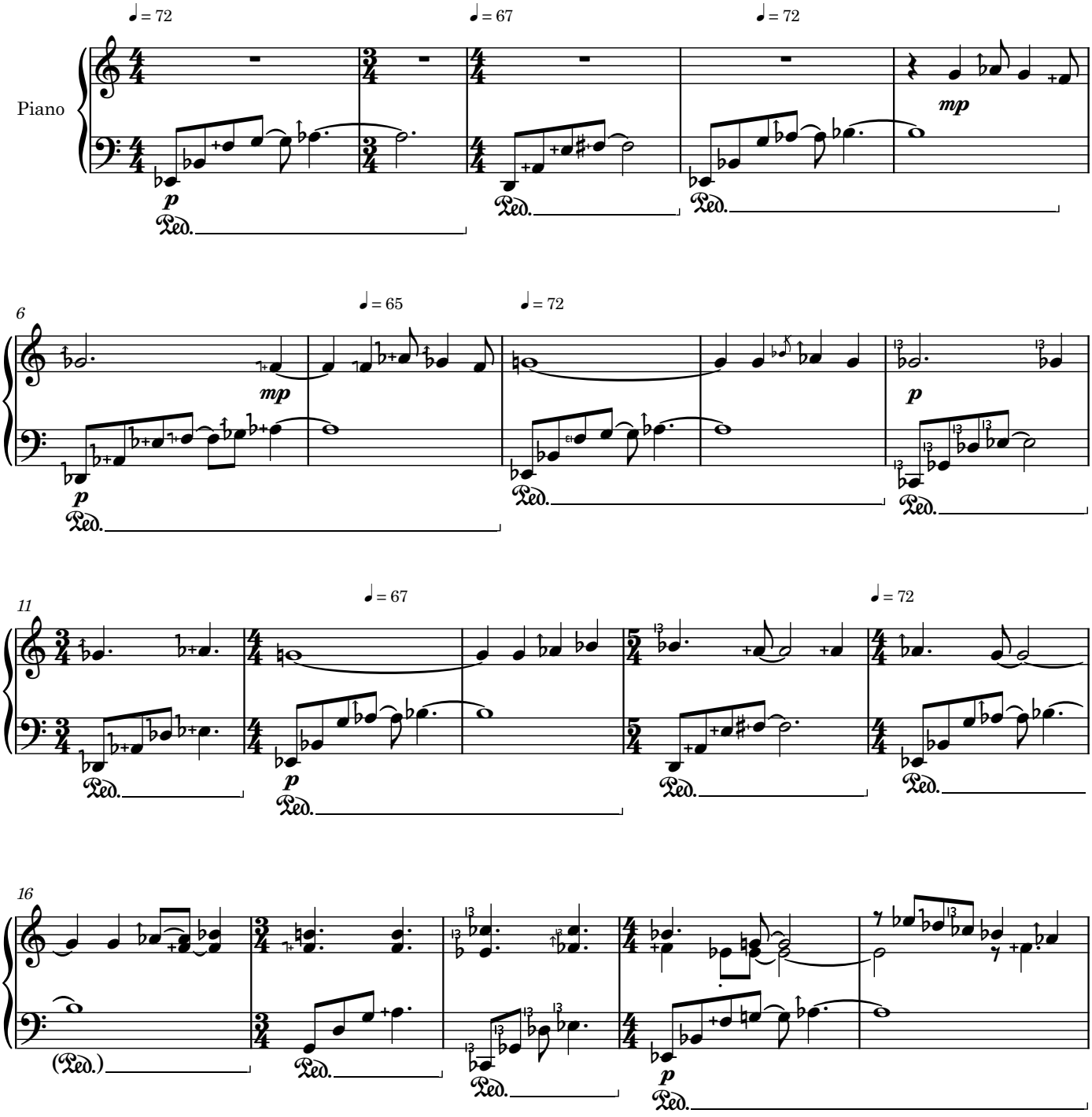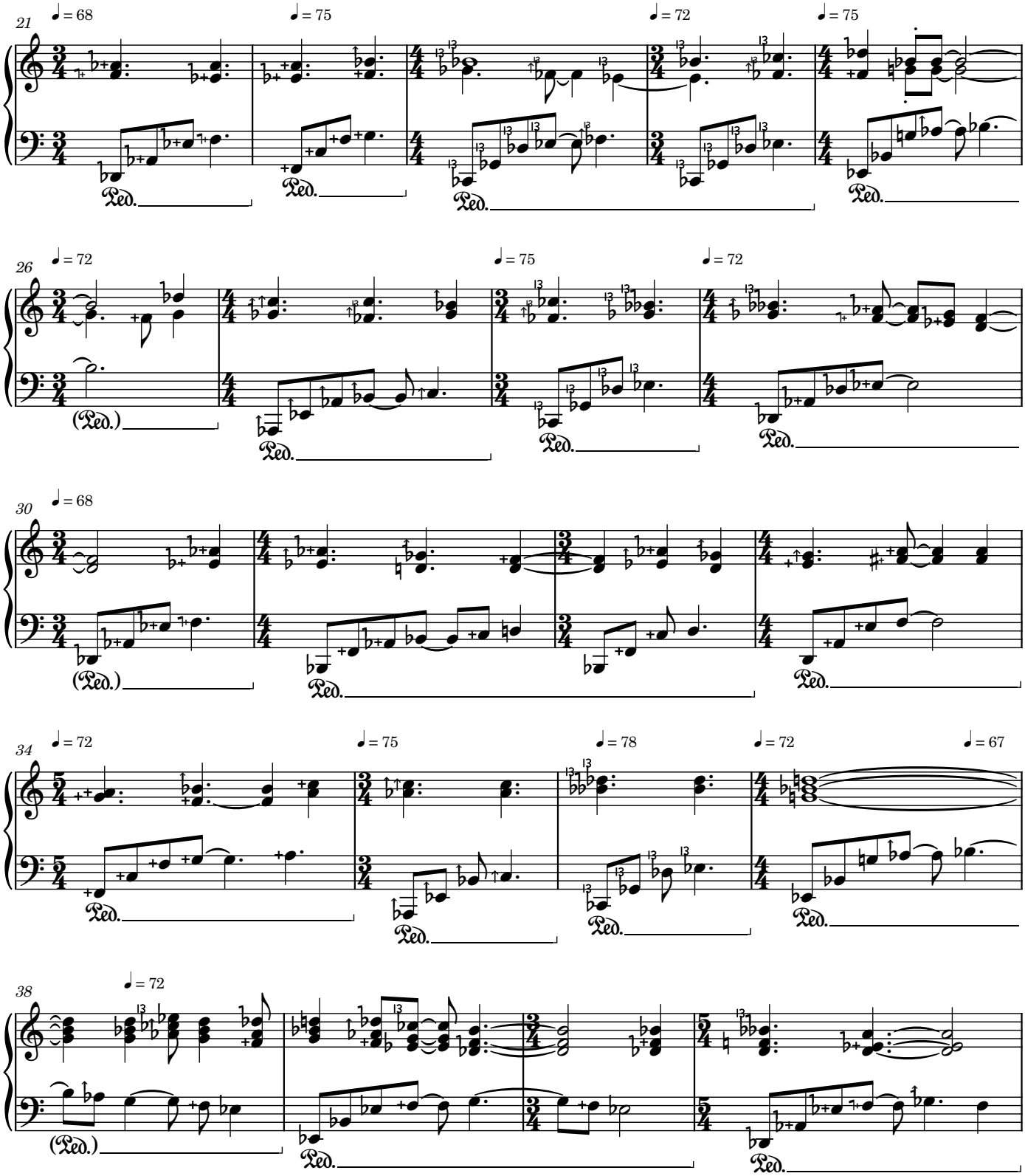






November 18, 2016 - April 30, 2017
Germantown, NY
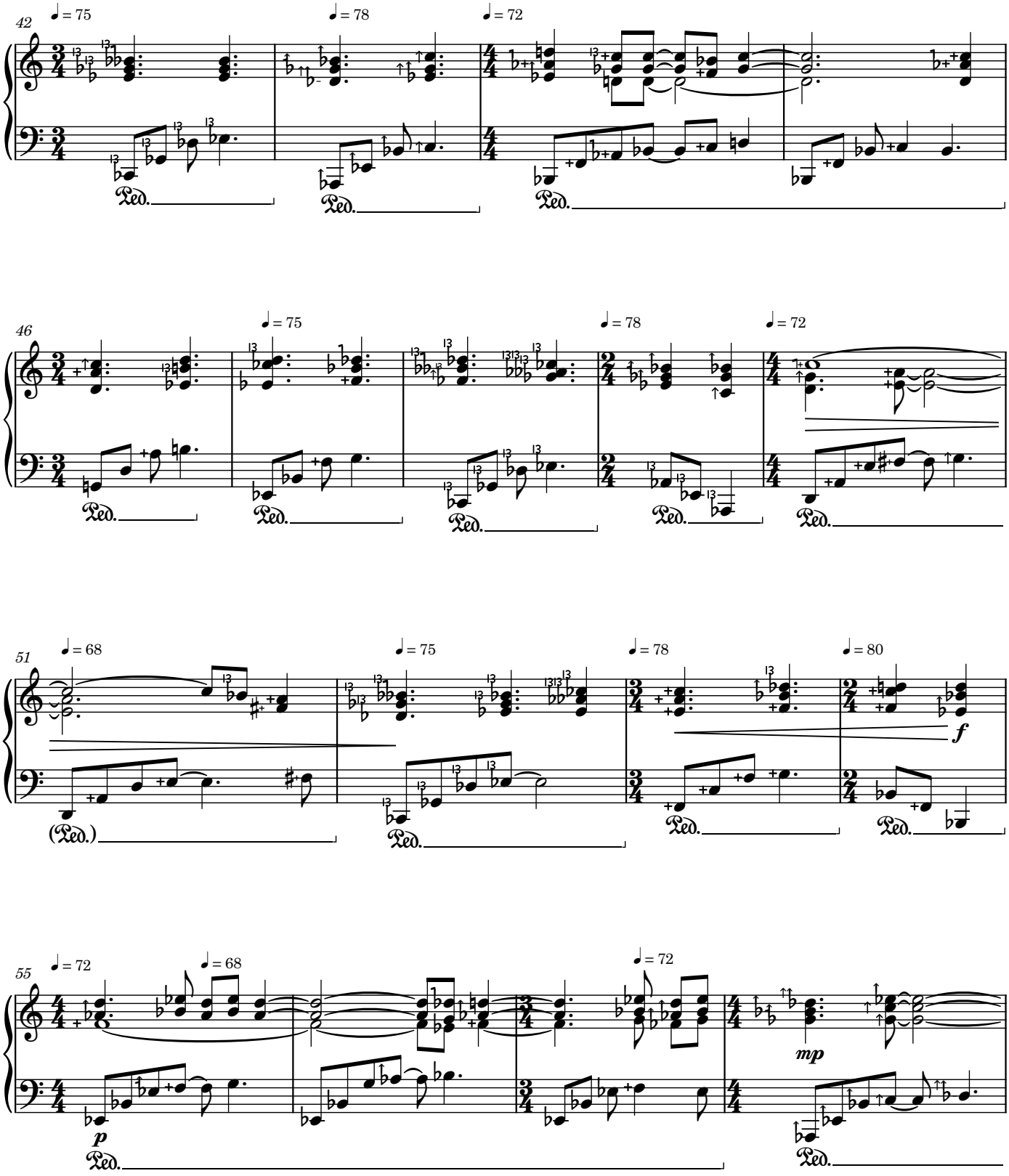
Romance Postmoderne
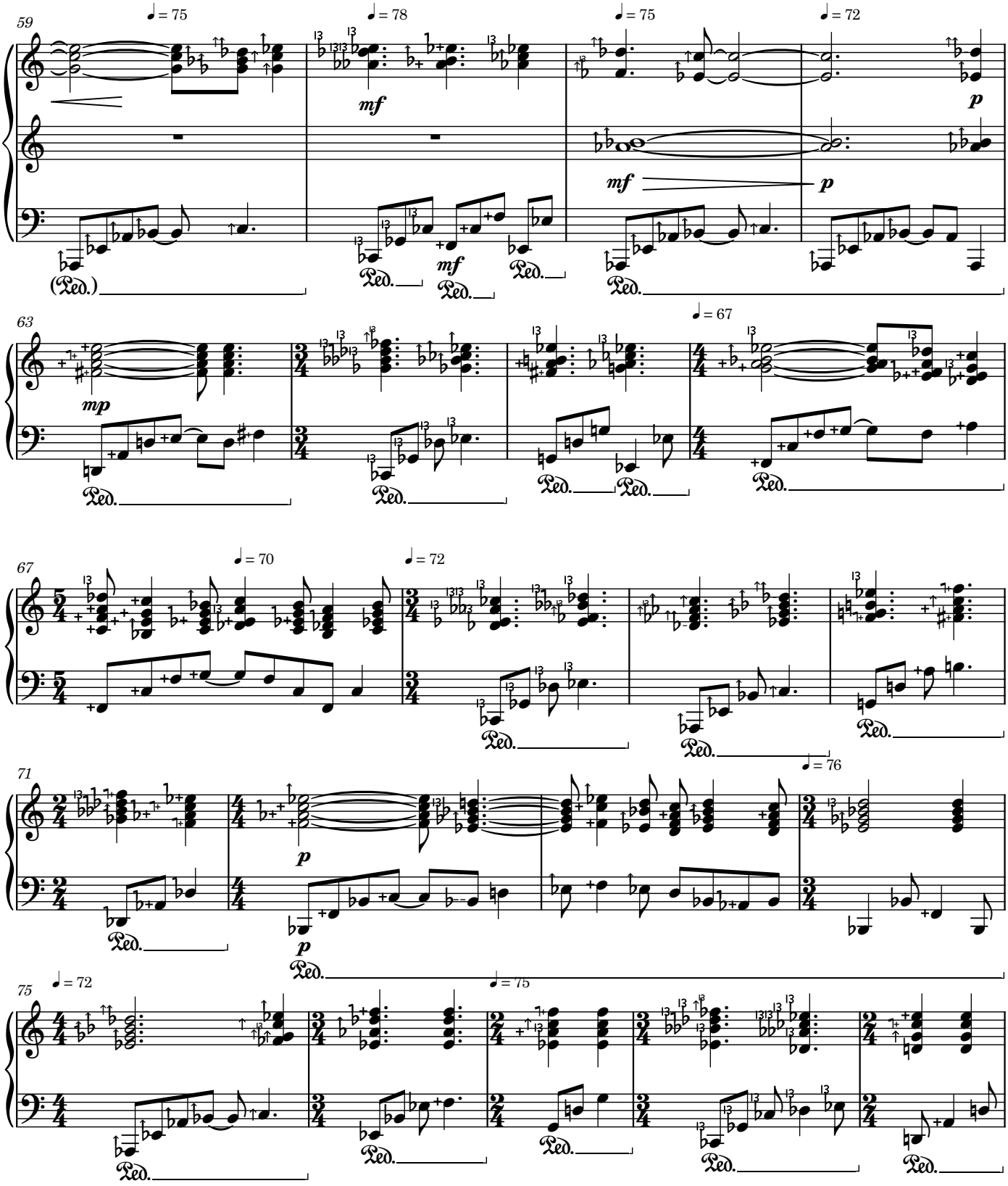
Kyle Gann
2012/15
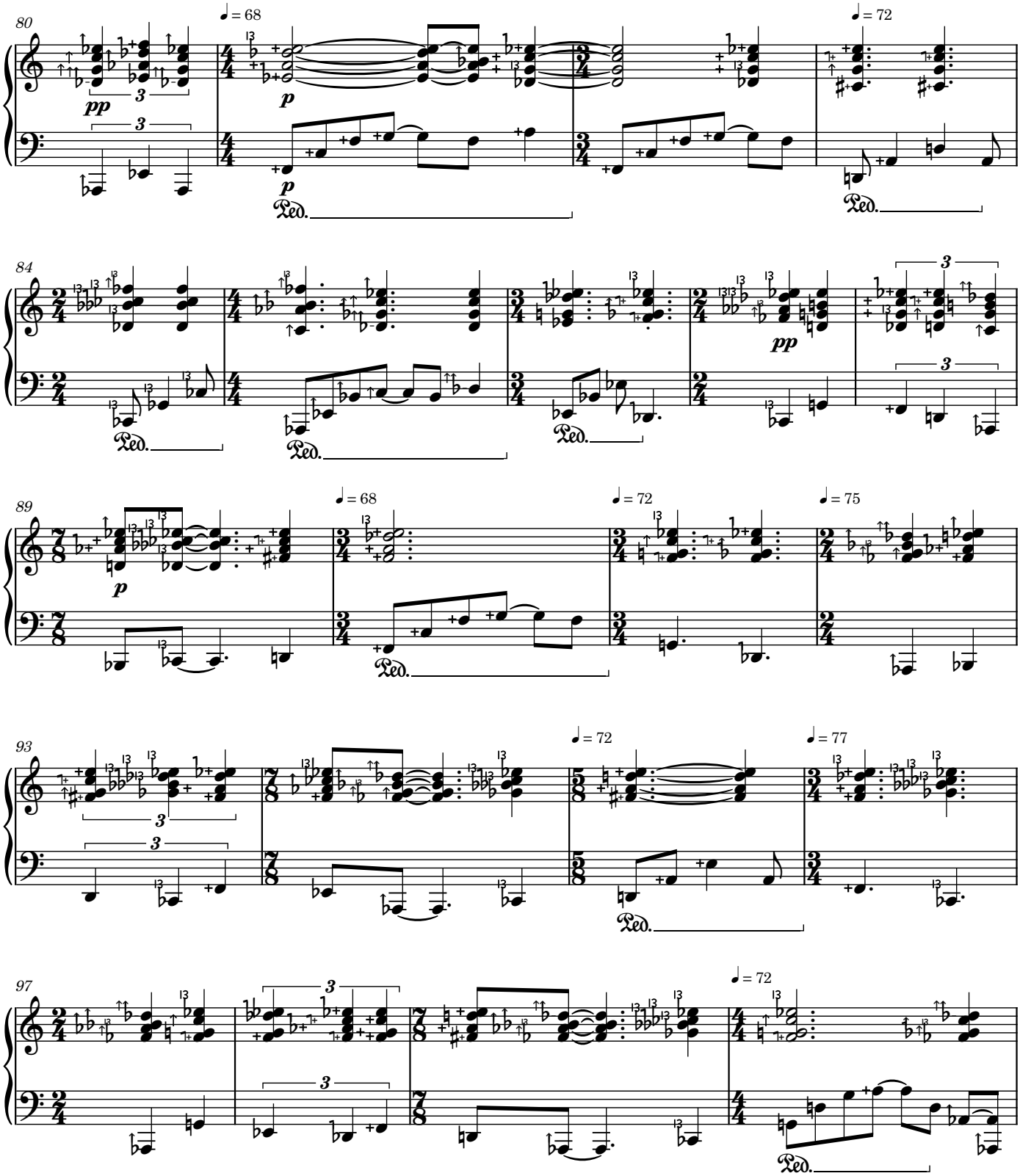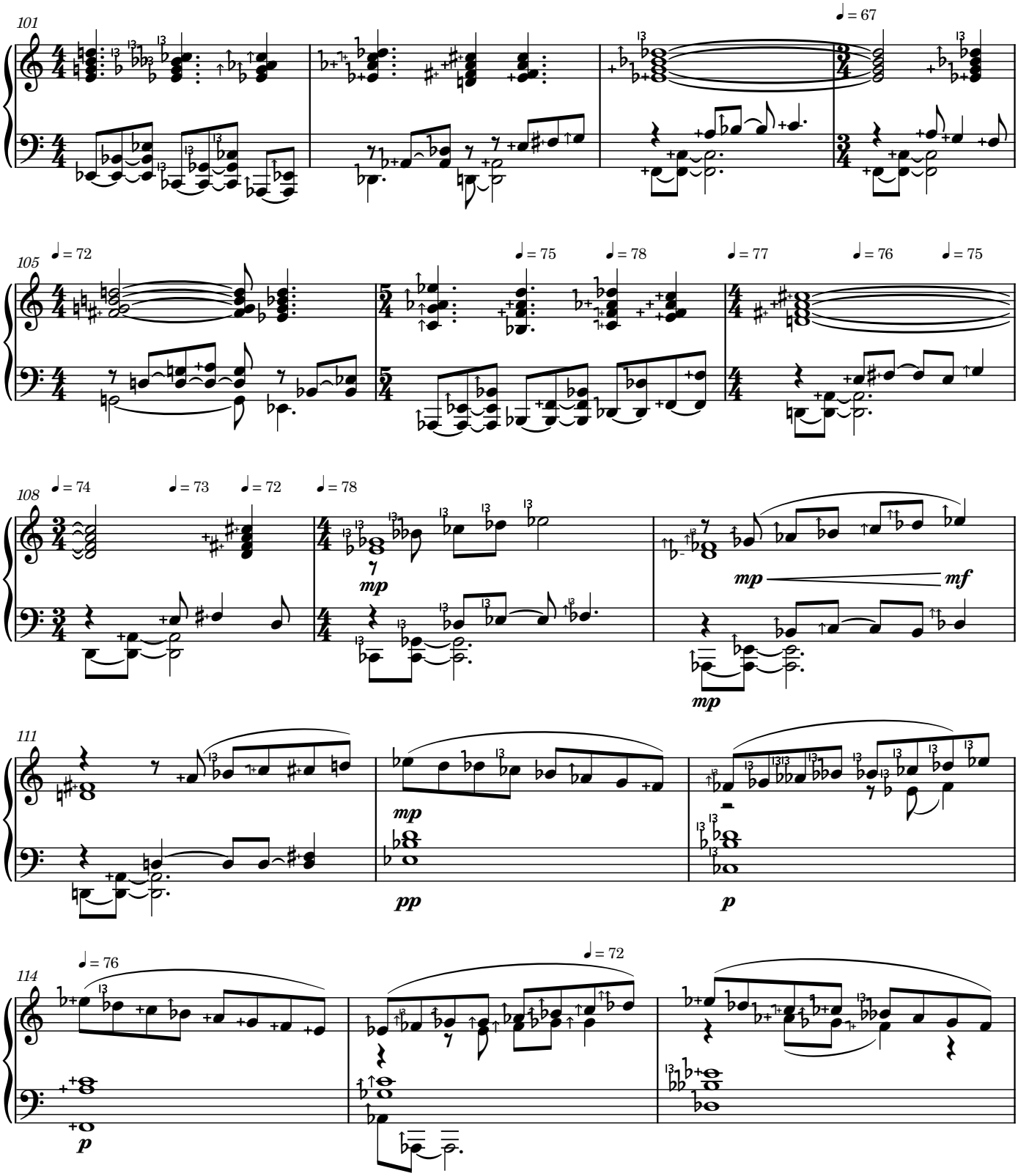


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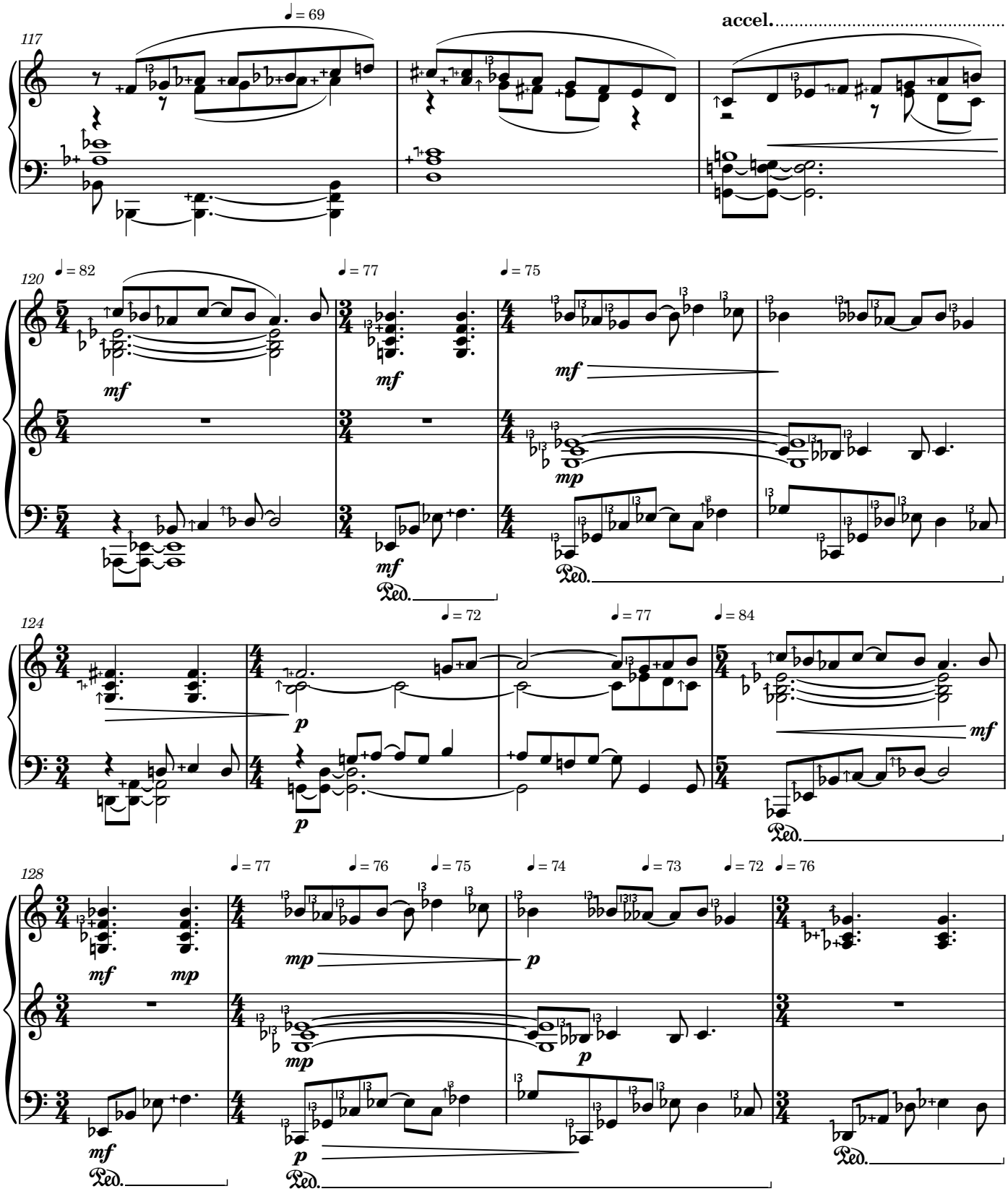

21
♩ = 68
♩ = 75
♩ = 72
♩ = 75
Ped.
26
♩ = 72
♩ = 75
♩ = 72
(Ped.)
Ped.
30
♩ = 68
(Ped.)
Ped.
34
♩ = 72
♩ = 75
♩ = 78
♩ = 72
♩ = 67
Ped.
38
♩ = 72
(Ped.)
Ped.
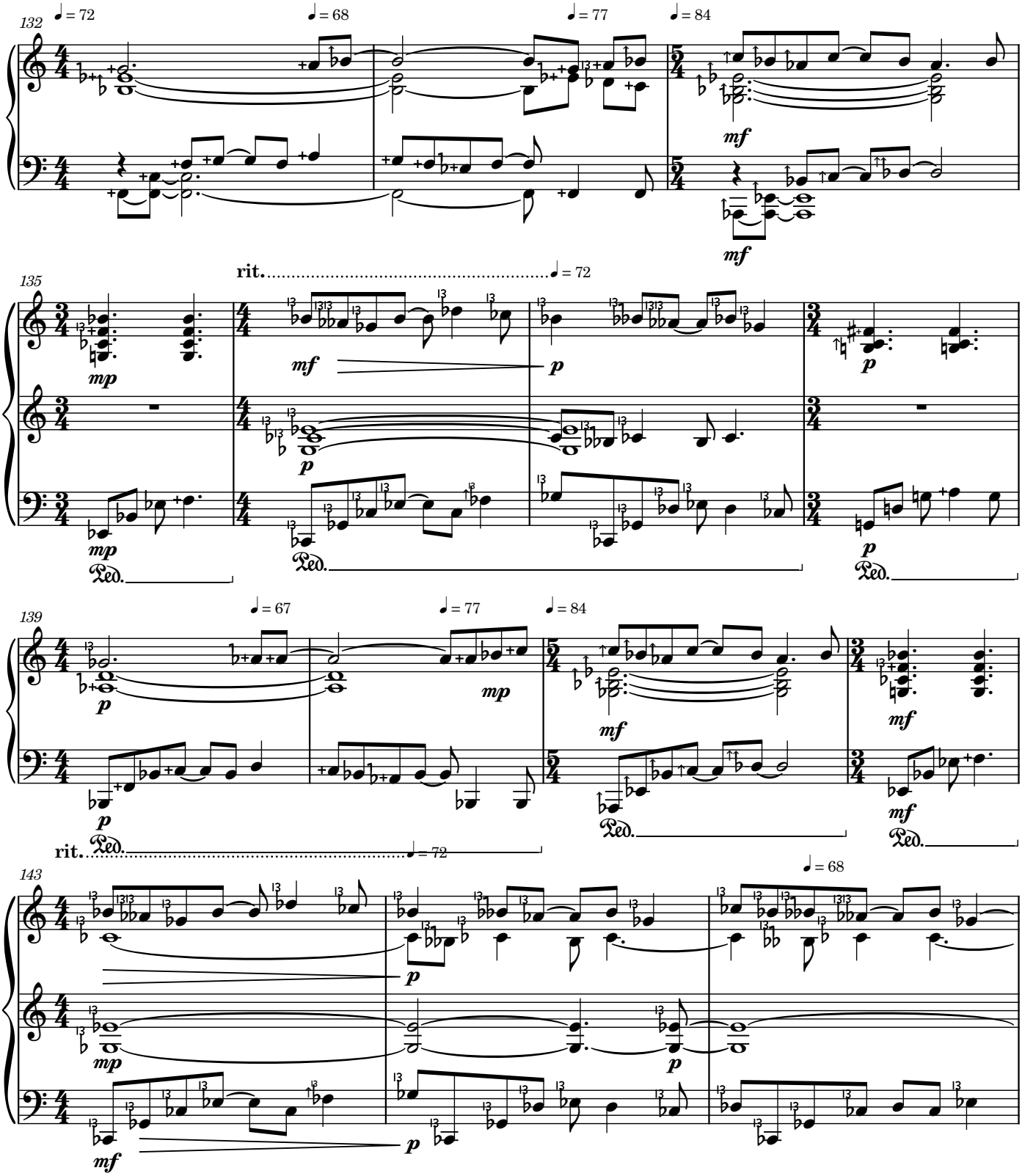

42
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46
♩ = 75
♩ = 78
♩ = 72
Ped.
51
♩ = 68
♩ = 75
♩ = 78
♩ = 80
(Ped.)
Ped.
f
55
♩ = 72
♩ = 68
♩ = 72
p
mp
Ped.
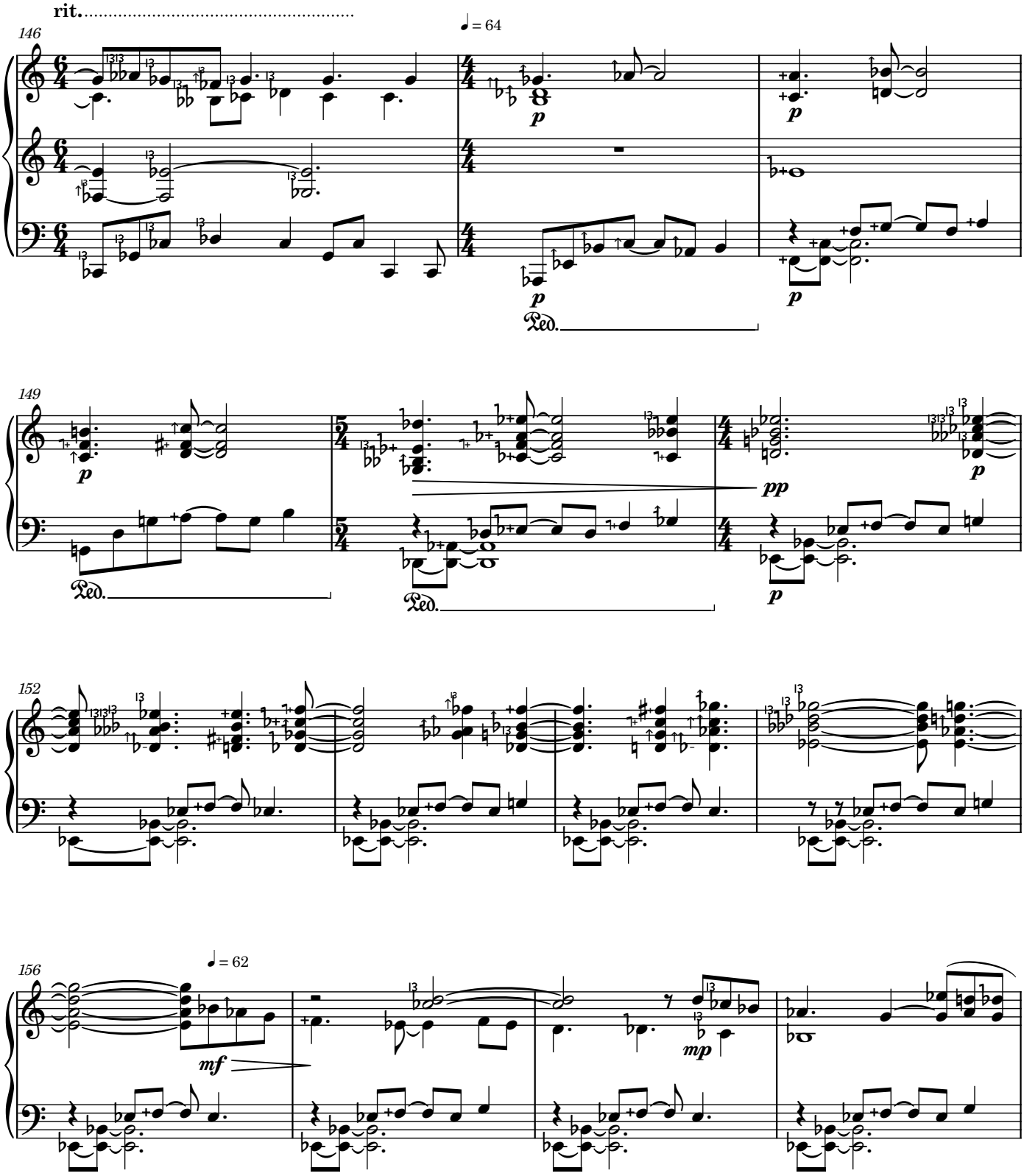

59
♩ = 75
♩ = 78
♩ = 75
♩ = 72
mf
mf
mf
p
p
(Ped.)
Ped.
63
mp
♩ = 67
67
♩ = 70
♩ = 72
71
p
p
♩ = 76
75
♩ = 72
♩ = 75
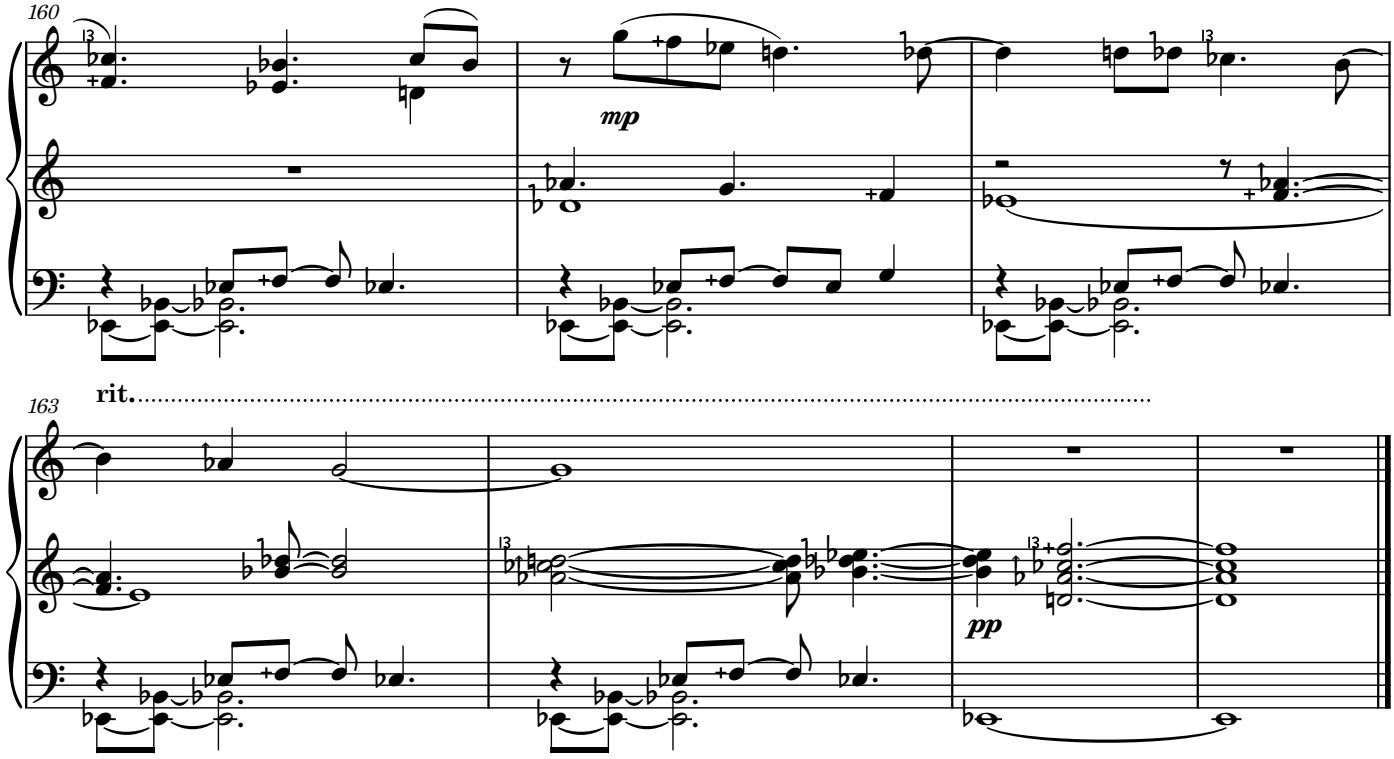

80
♩ = 68
pp
p
p
Ped.
♩ = 72
Ped.
84
pp
Ped.
Ped.
Ped.
89
♩ = 68
♩ = 72
♩ = 75
p
Ped.
93
♩ = 72
♩ = 77
Ped.
97
♩ = 72
Ped.


101
♩ = 67
105
♩ = 72
♩ = 75
♩ = 78
♩ = 77
♩ = 76
♩ = 75
108
♩ = 74
♩ = 73
♩ = 72
♩ = 78
mp
mp
mf
mp
111
mp
pp
p
114
♩ = 76
♩ = 72
p


117
♩ = 69
accel.
120
♩ = 82
♩ = 77
♩ = 75
mf
mp
Ped.
124
♩ = 72
♩ = 77
♩ = 84
p
mf
128
♩ = 77
♩ = 76
♩ = 75
♩ = 74
♩ = 73
♩ = 72
♩ = 76
mp
p


132
♩ = 72
♩ = 68
♩ = 77
♩ = 84
mf
mf
135
rit.
♩ = 72
mp
mf
p
p
p
mp
Ped.
Ped.
Ped.
139
♩ = 67
♩ = 77
♩ = 84
p
mp
mf
mf
p
Ped.
Ped.
rit.
♩ = 72
143
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mp
p
p
mf
p
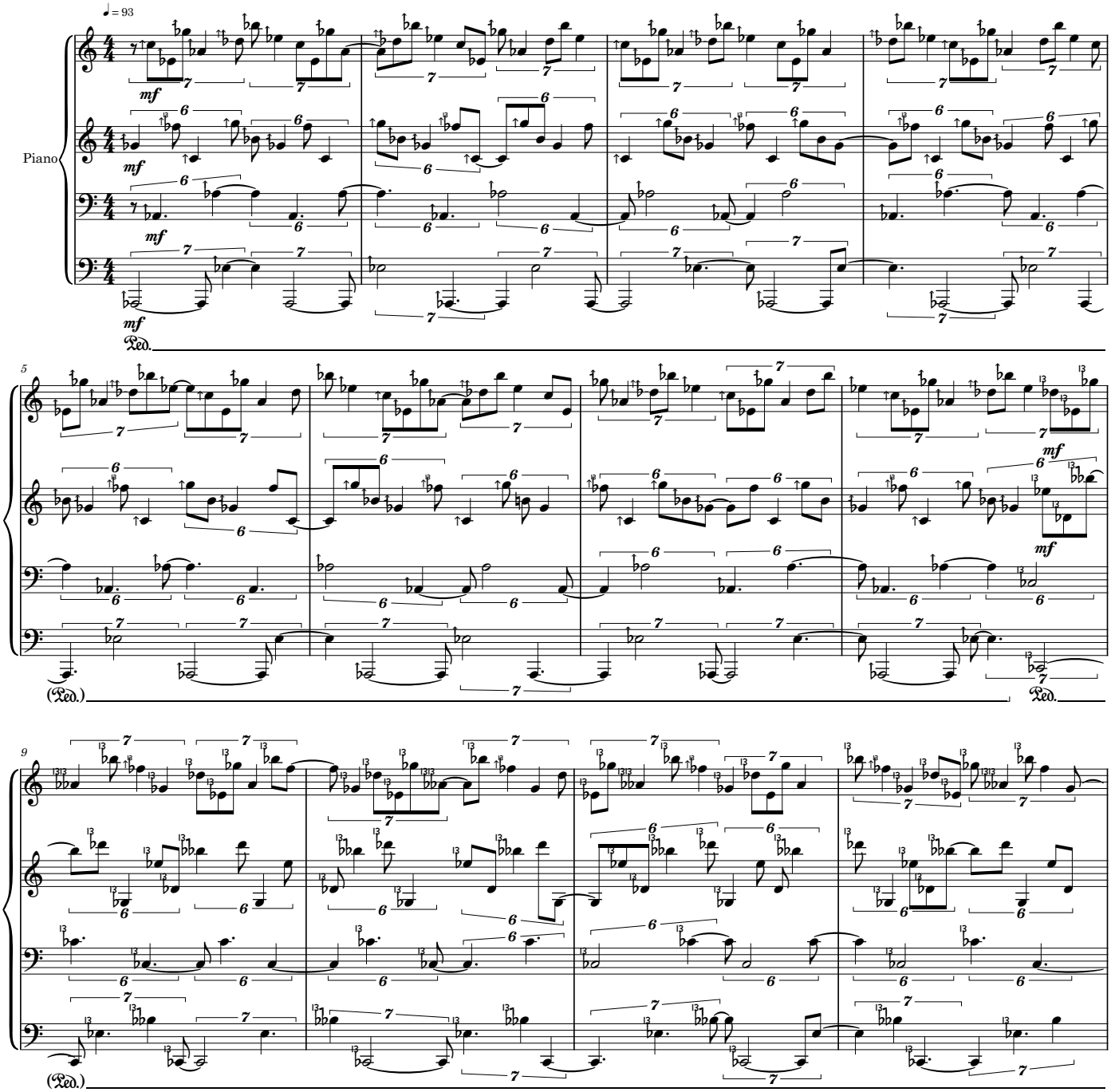

rit.
146
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p
Ped.
149
pp
152
156
♩ = 62
mf
mp


160
mp
163
rit.
pp
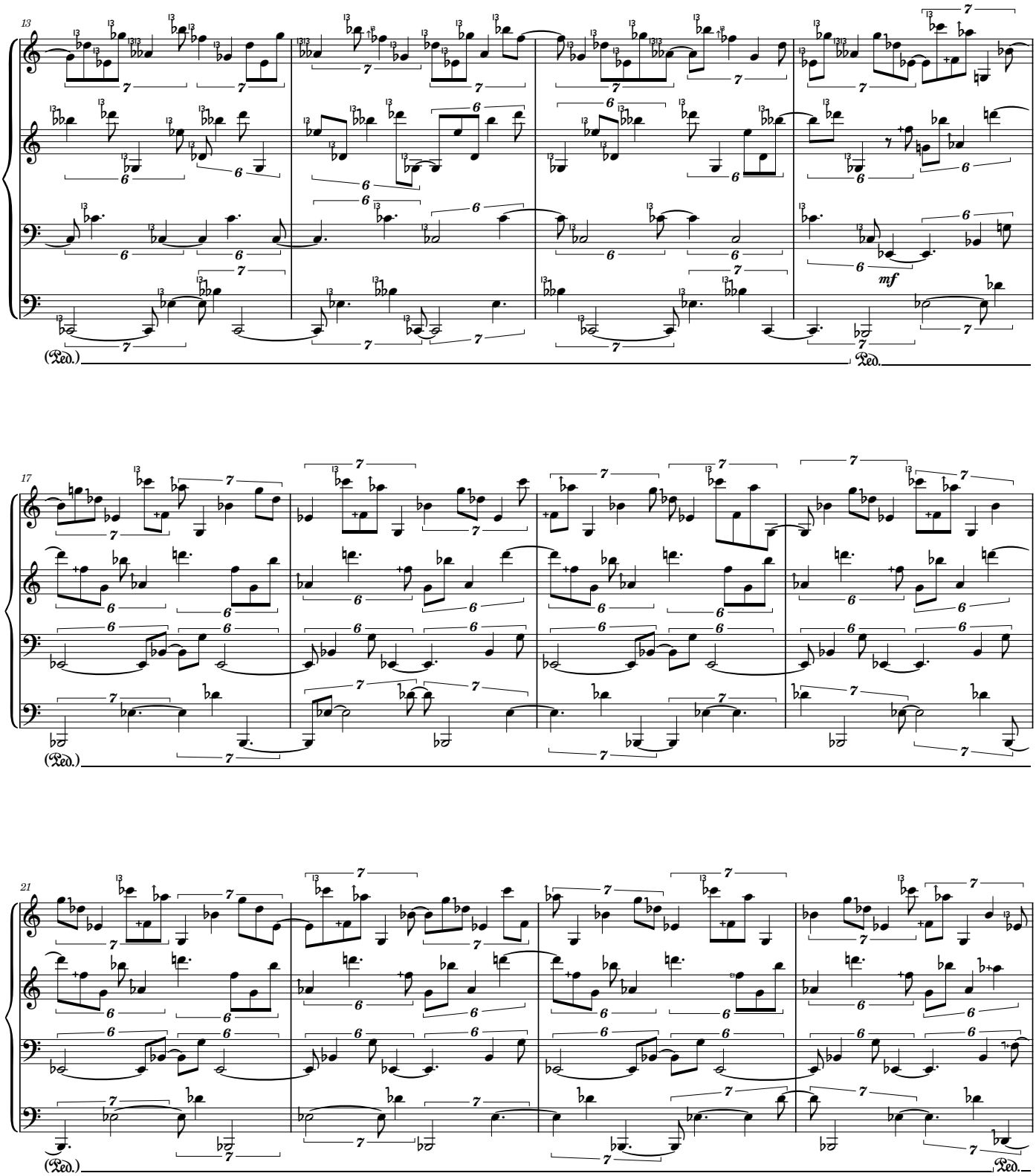
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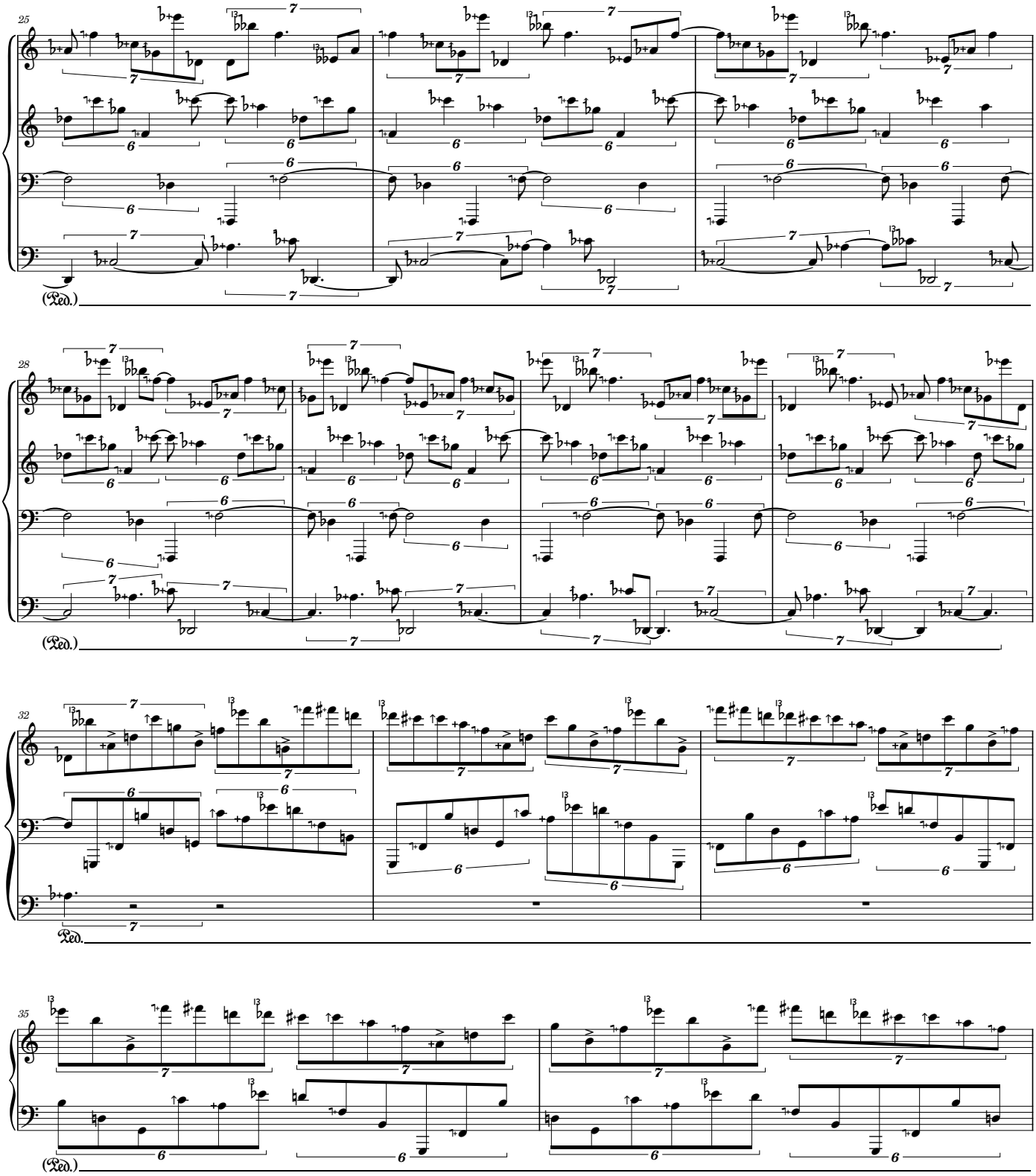
(Homage to Schillinger)
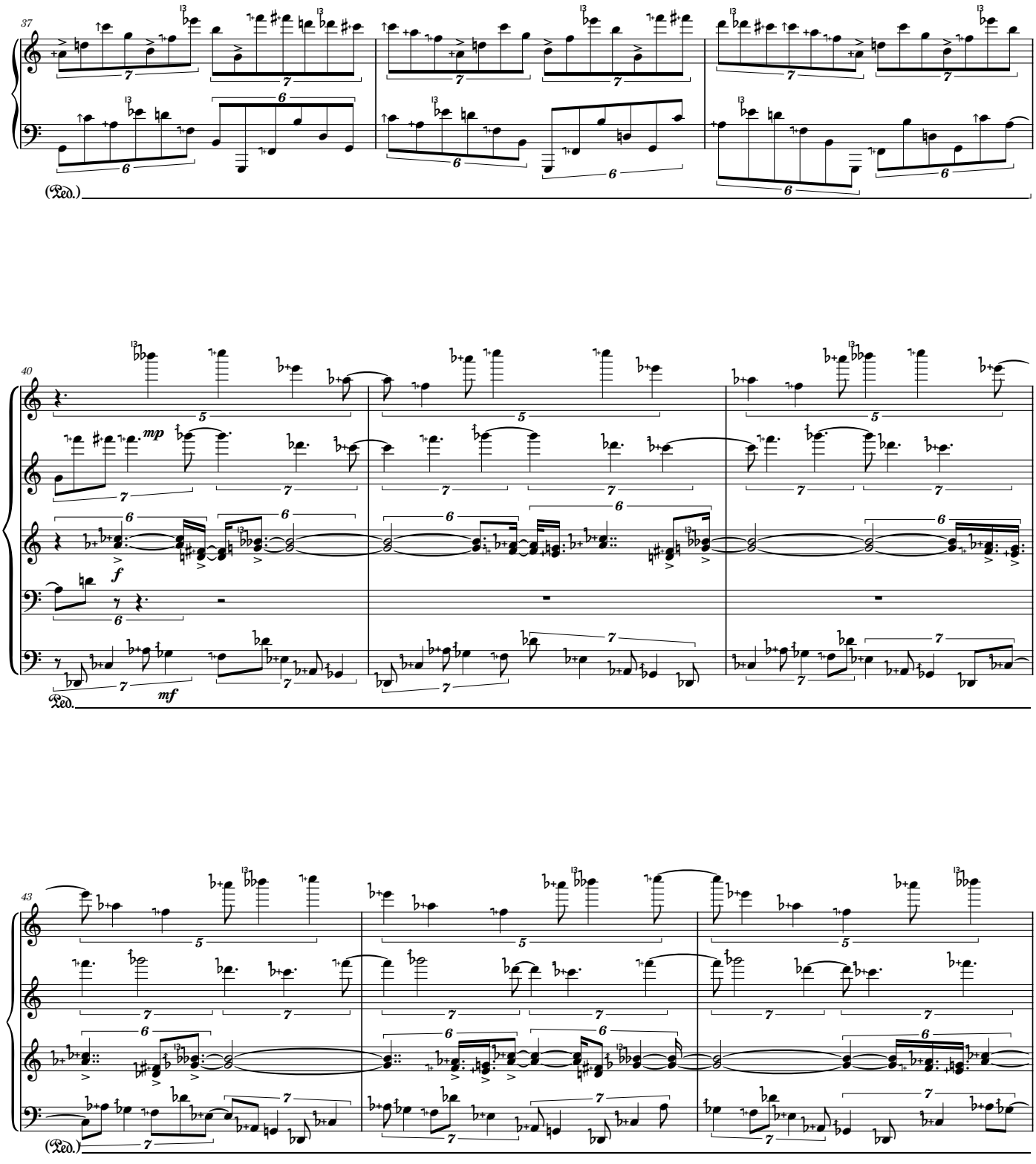
Kyle Gann
2021
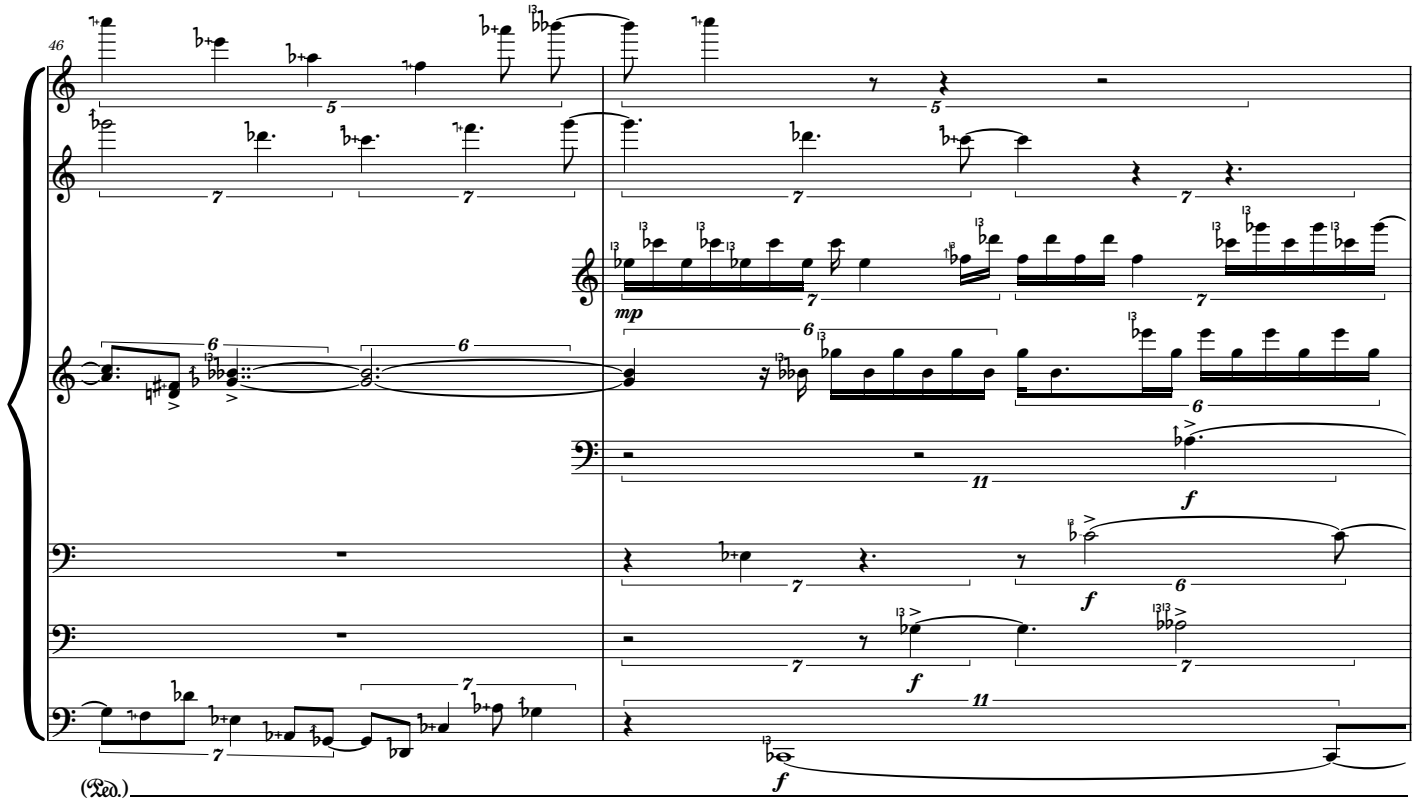


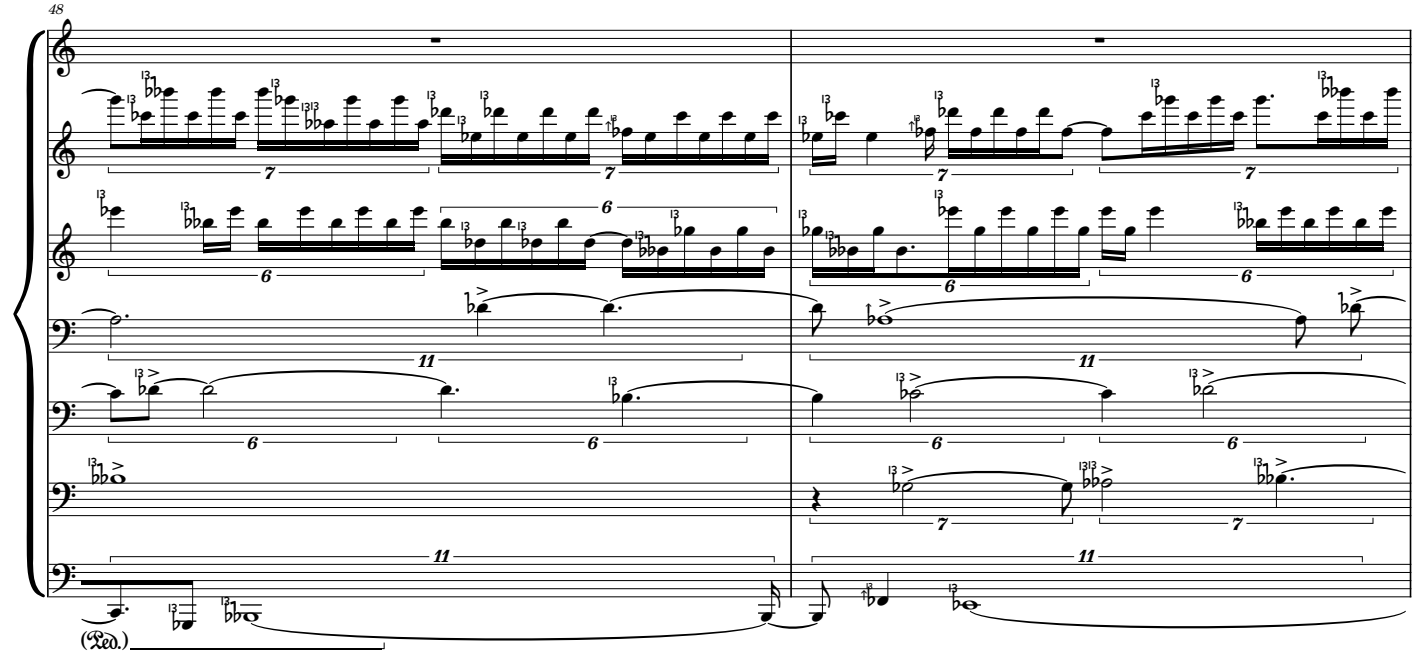
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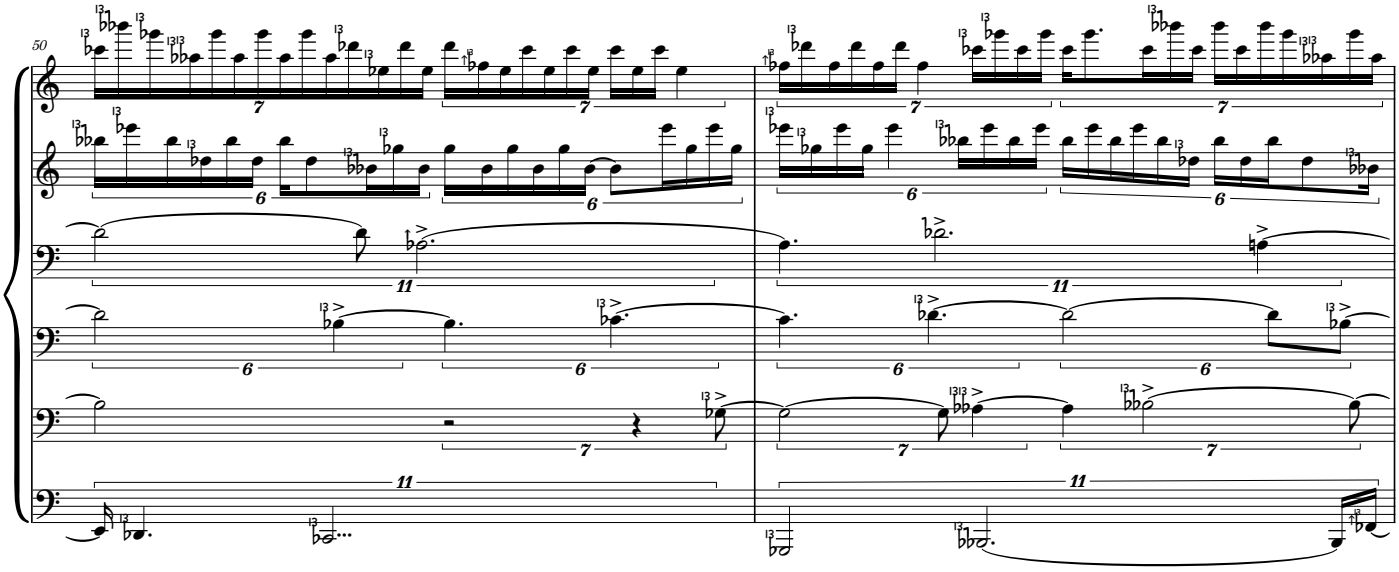

13
mf
(Ped.)
Ped.
17
(Ped.)
21
(Ped.)
Ped.

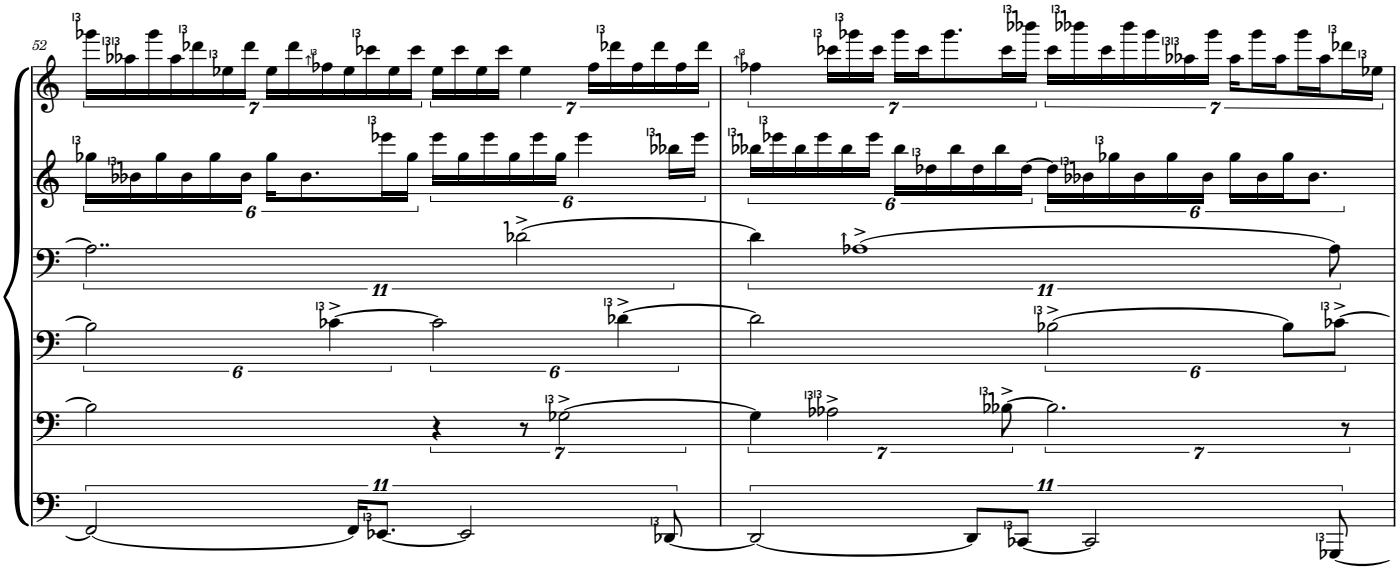

25
(Ped.)
28
(Ped.)
32
Ped.
35
(Ped.)

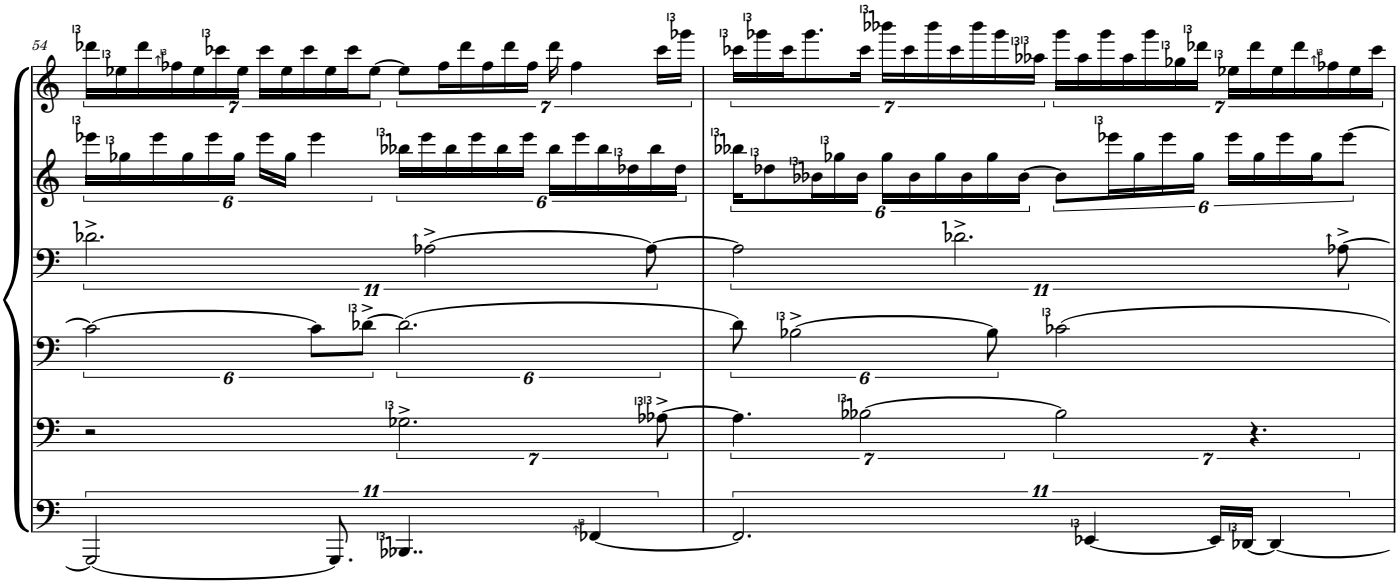

37
(Ped.)
40
mp
f
mf
Ped.
43
(Ped.)

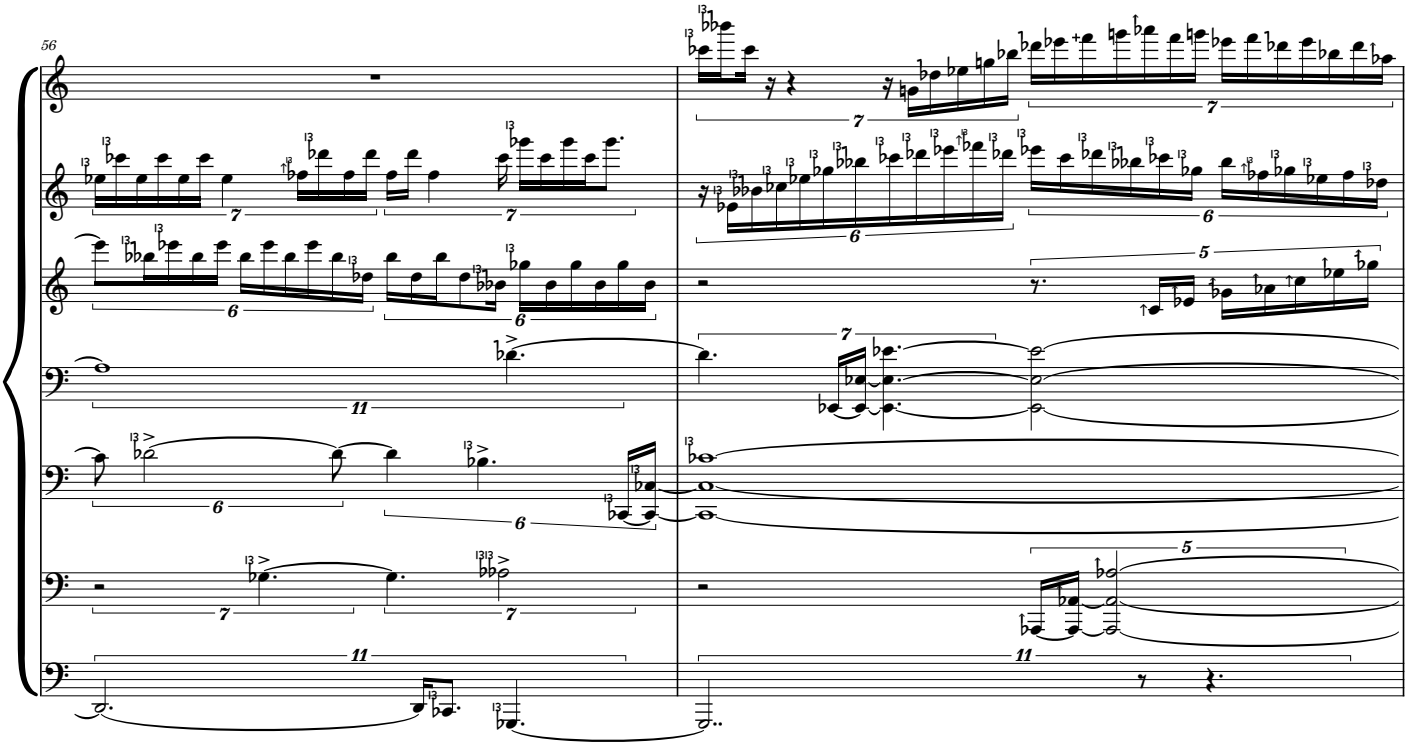

46
mp
f
f
f
f
(Ped.)

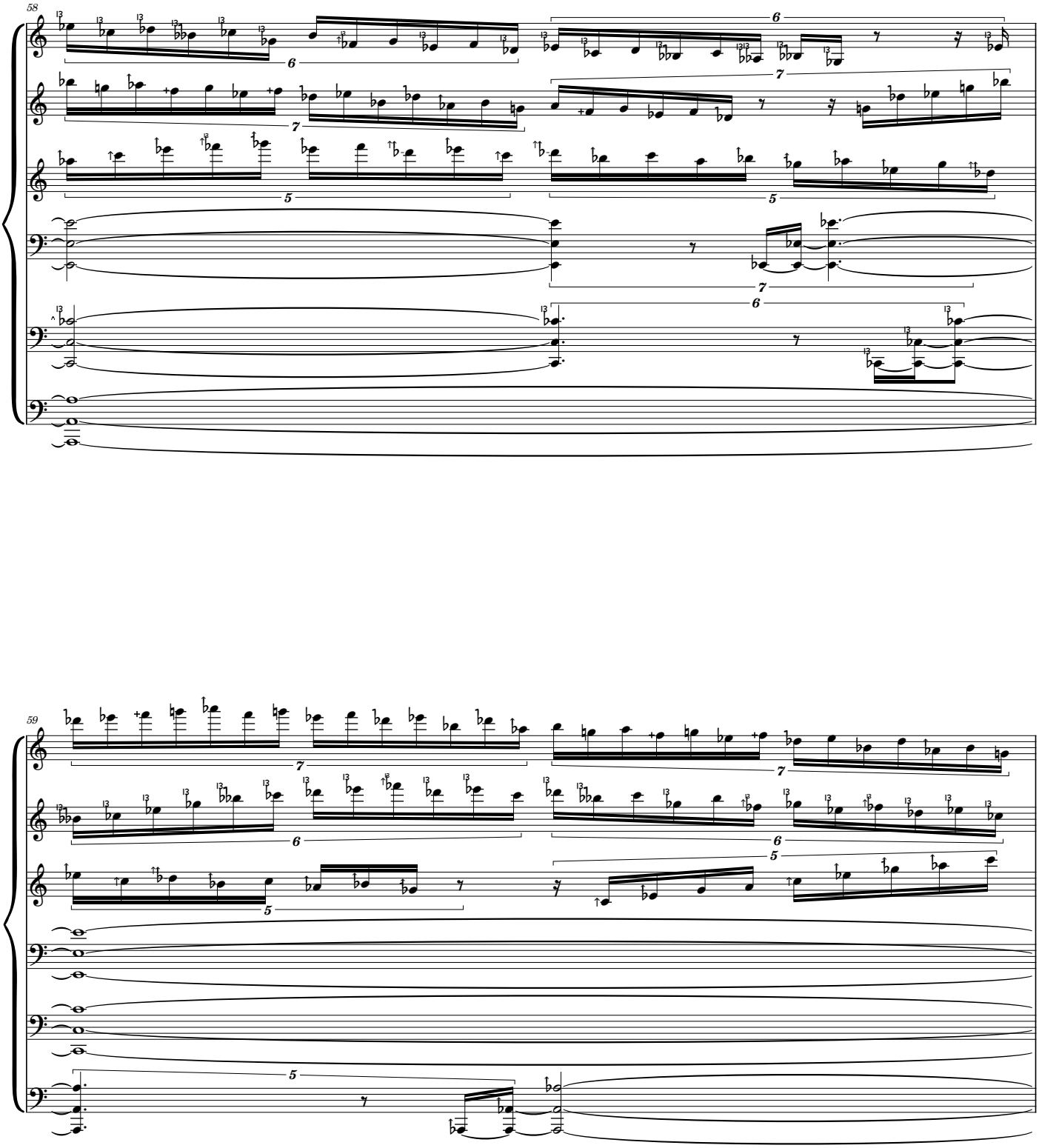

48
(Ped.)

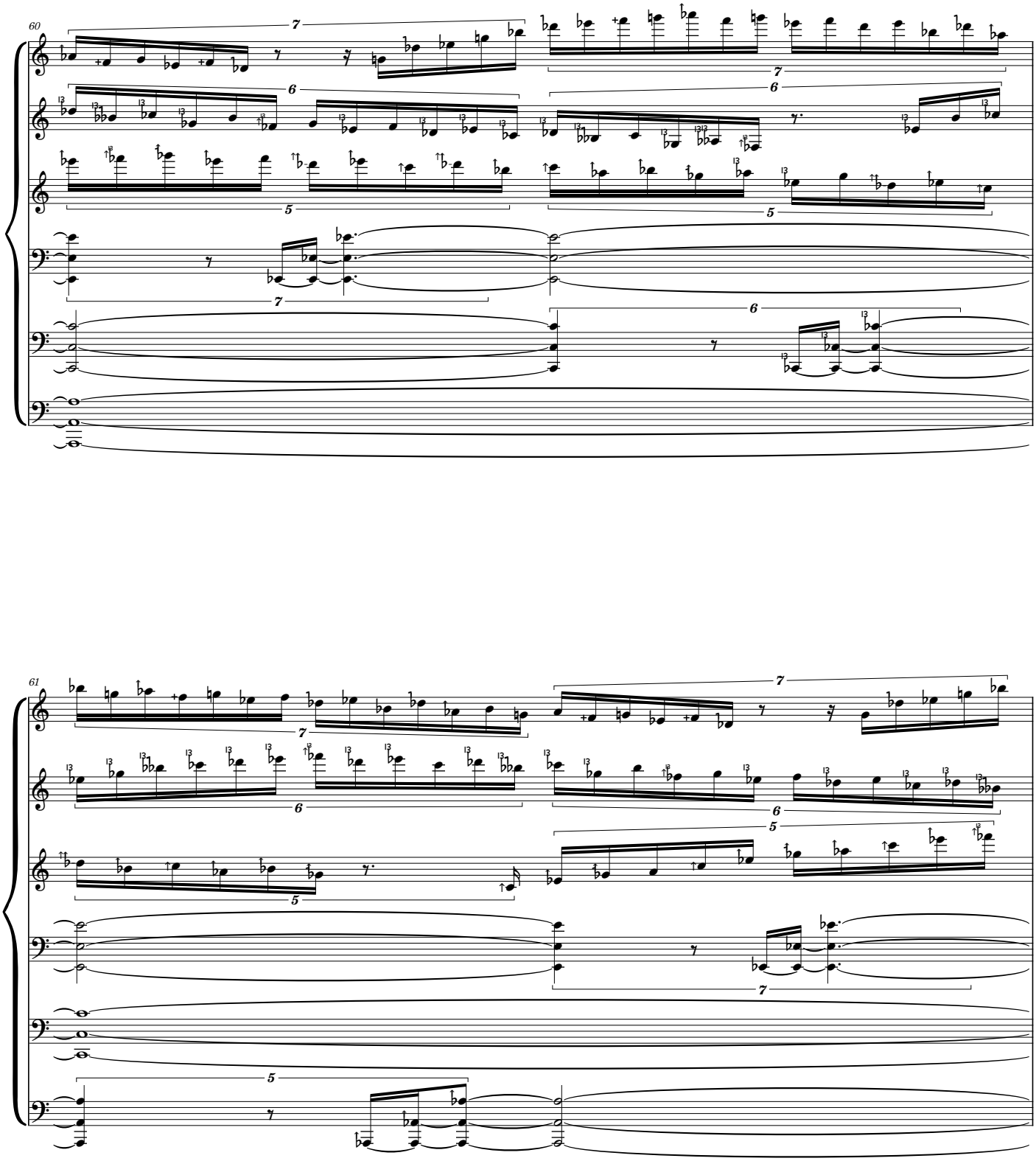

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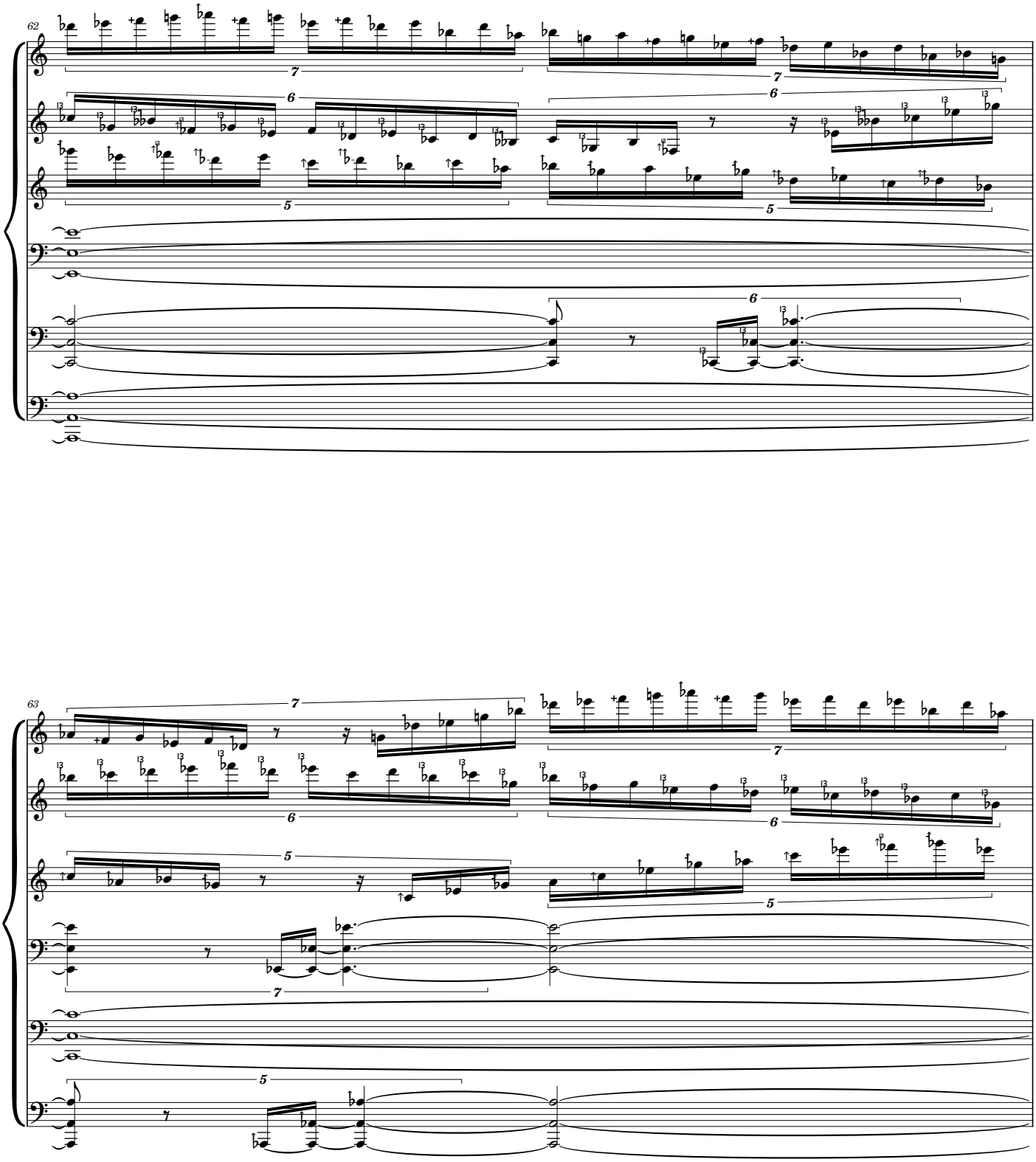

52
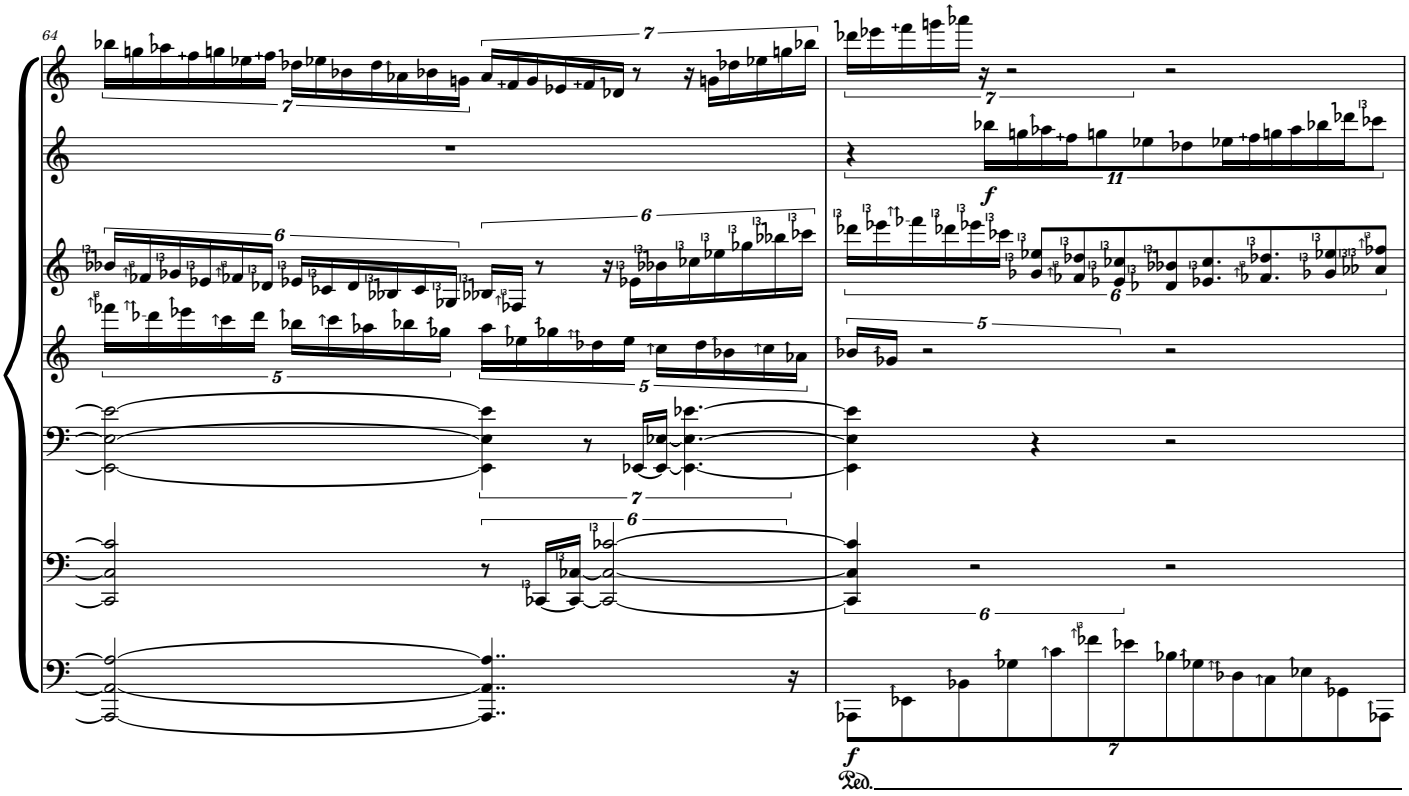

54

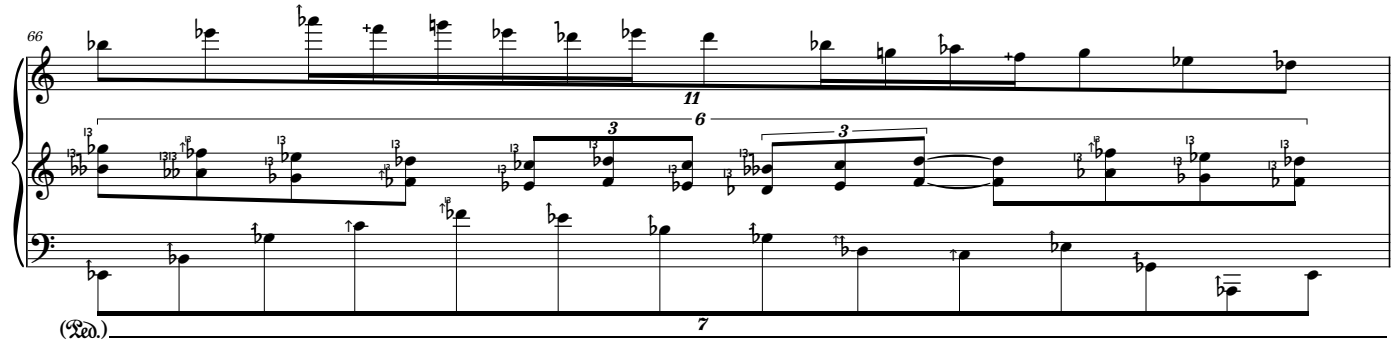

56
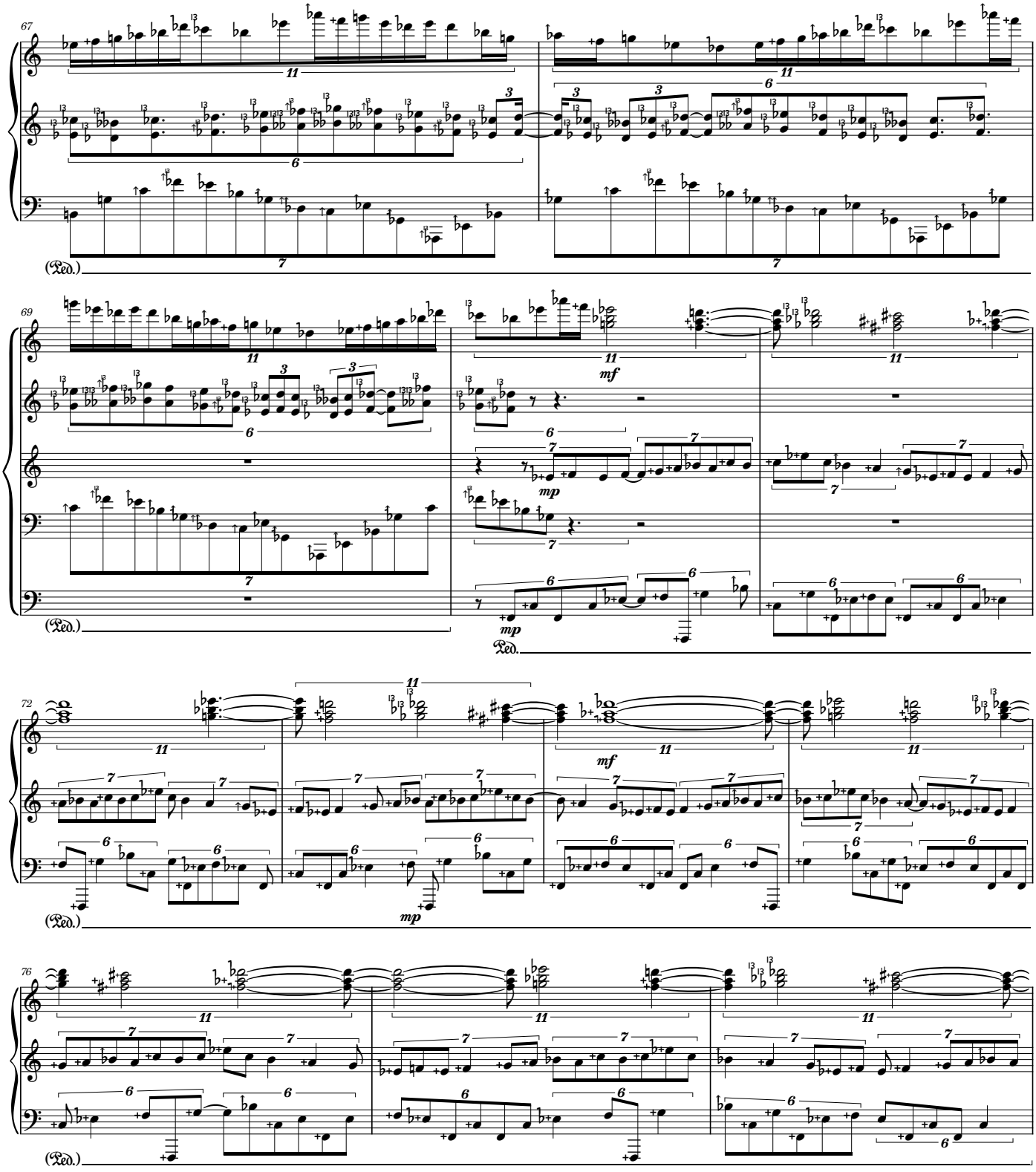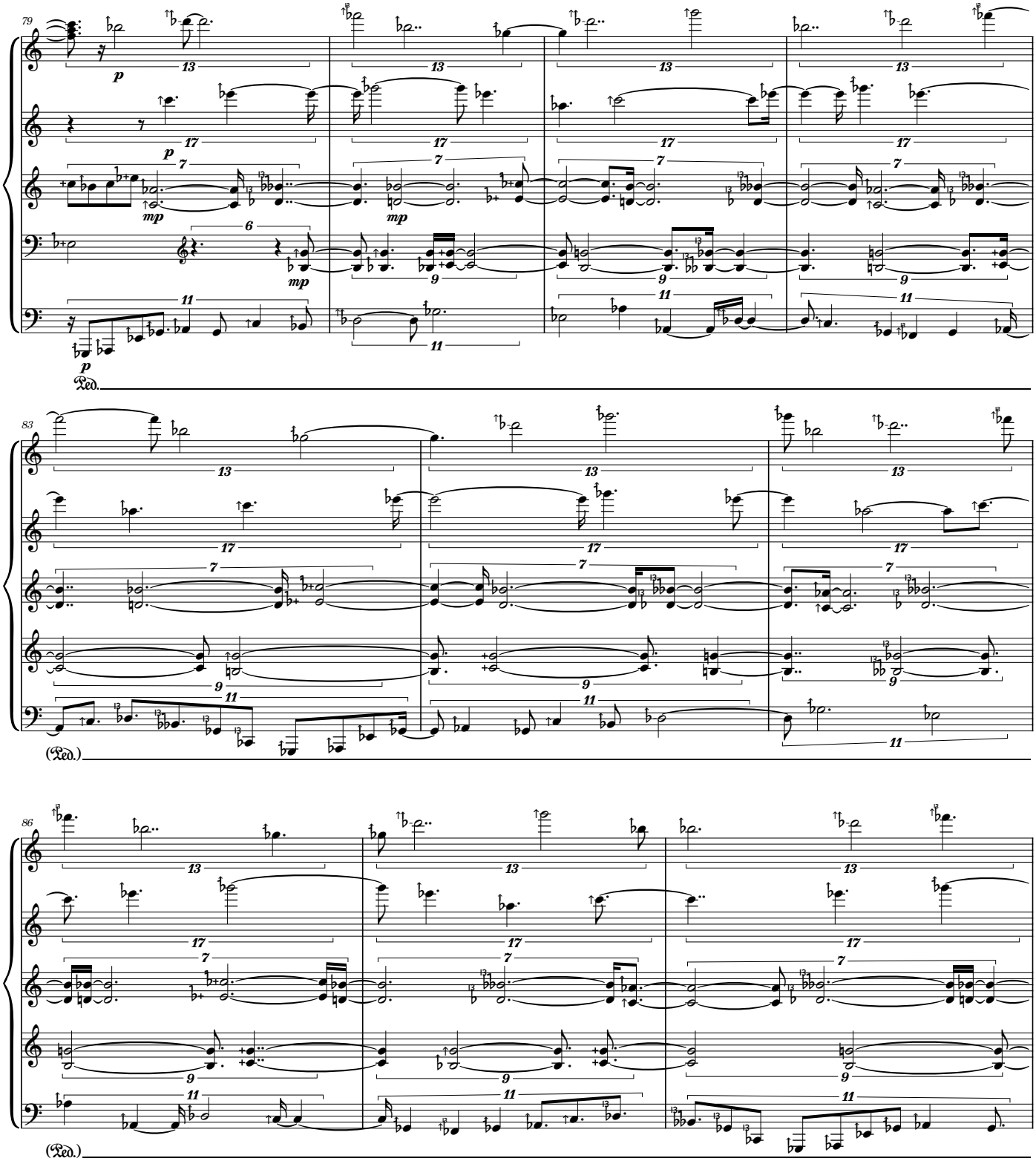



60
61
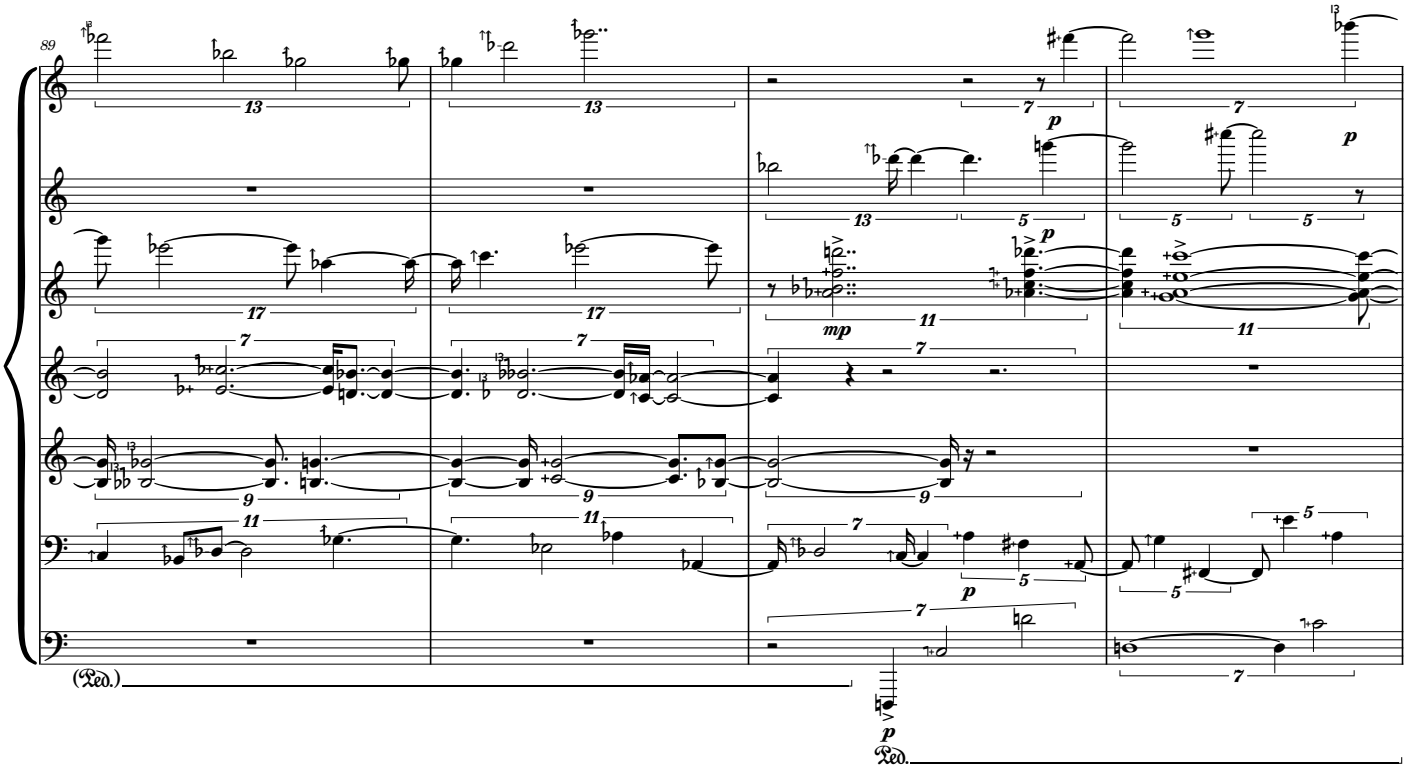

62
63

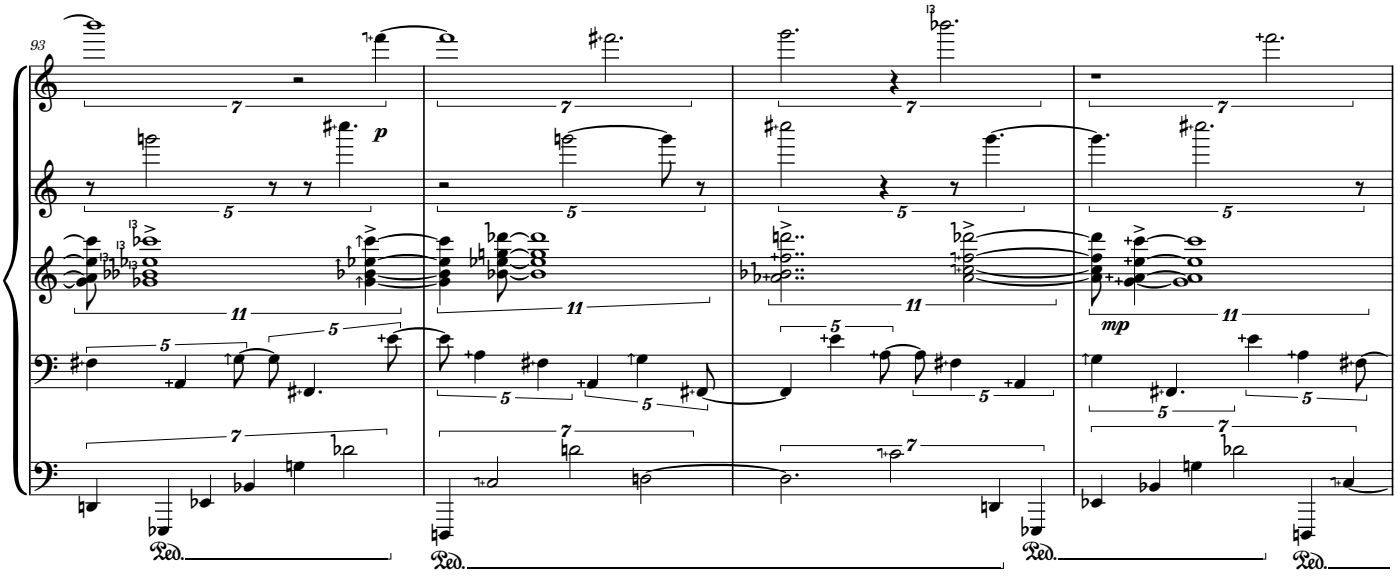

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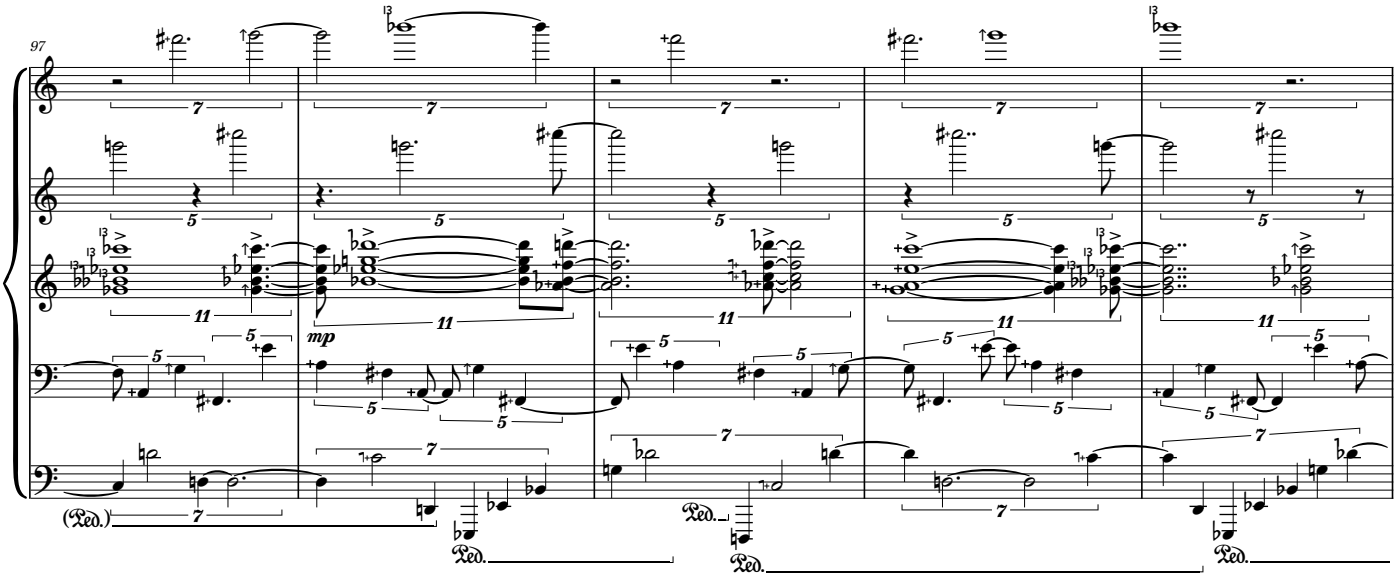

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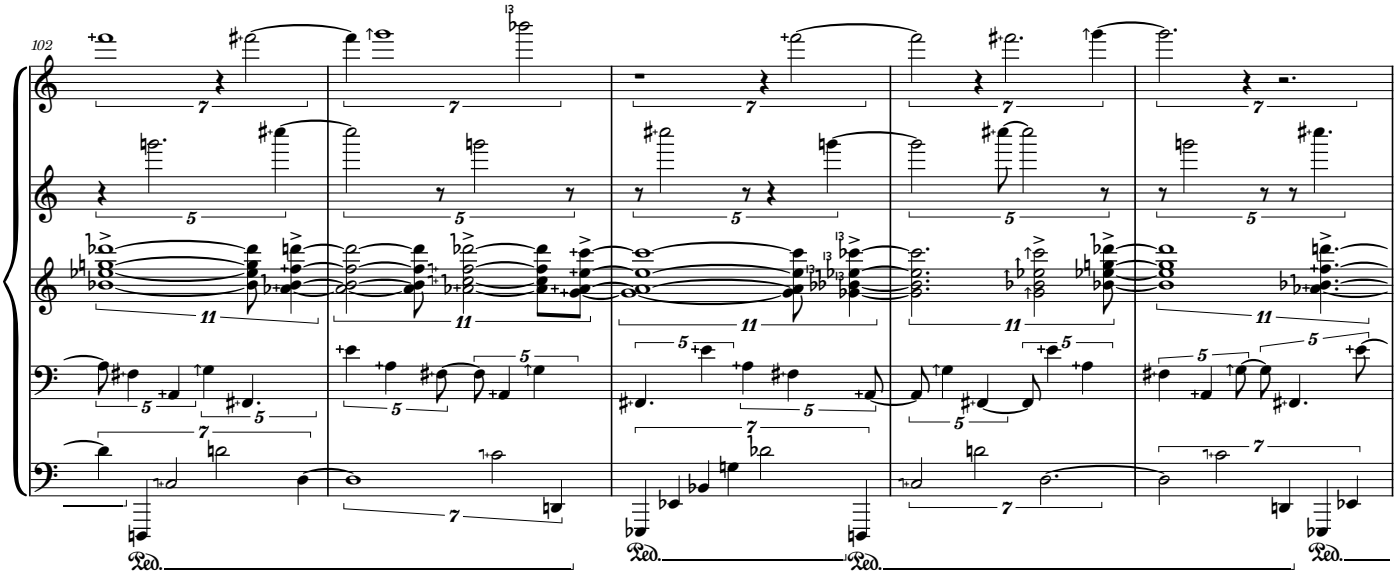

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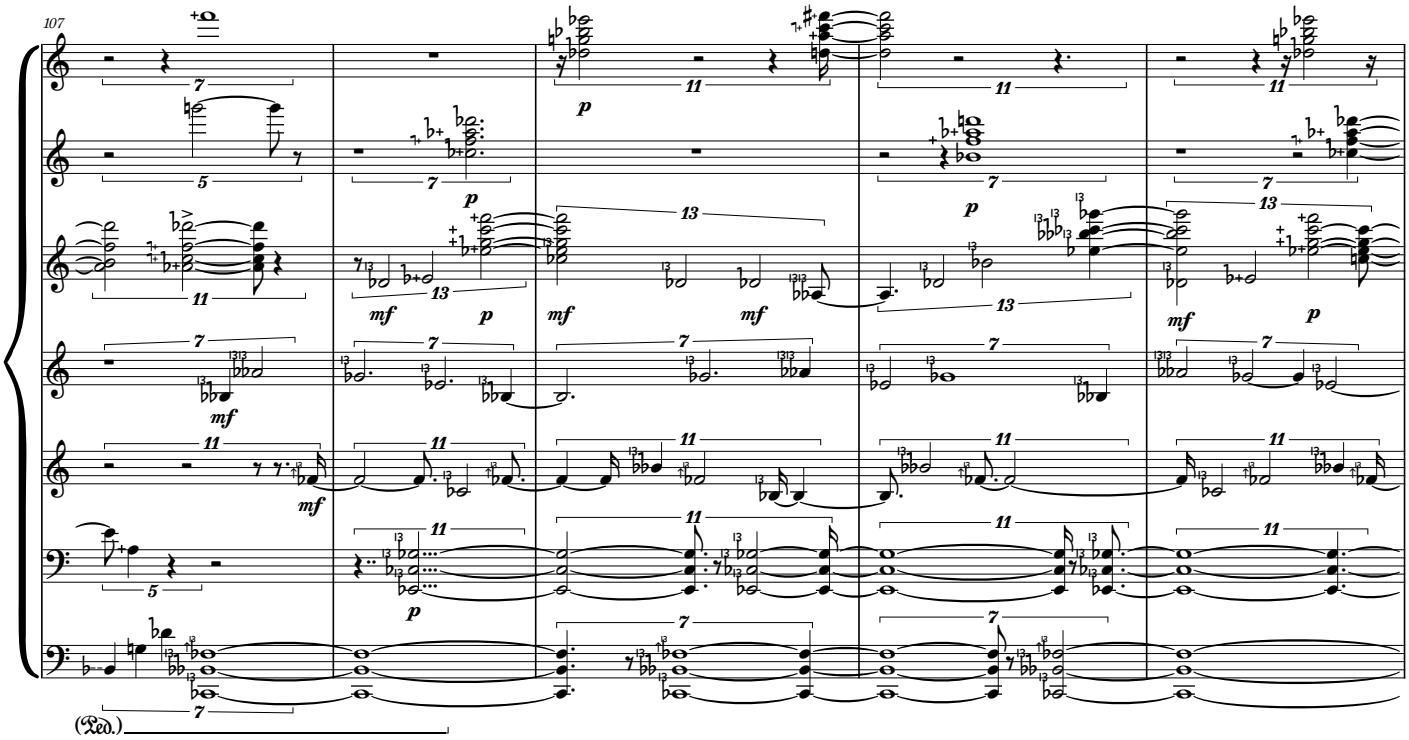

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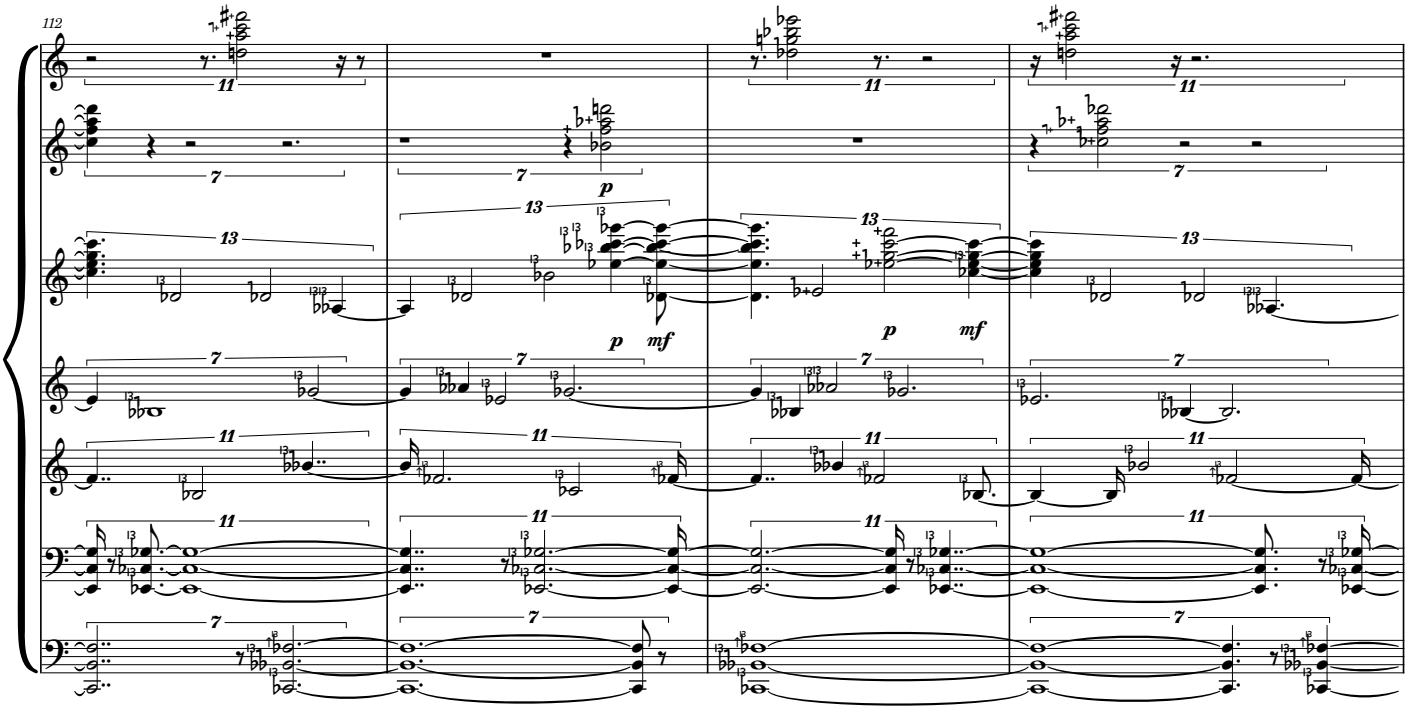

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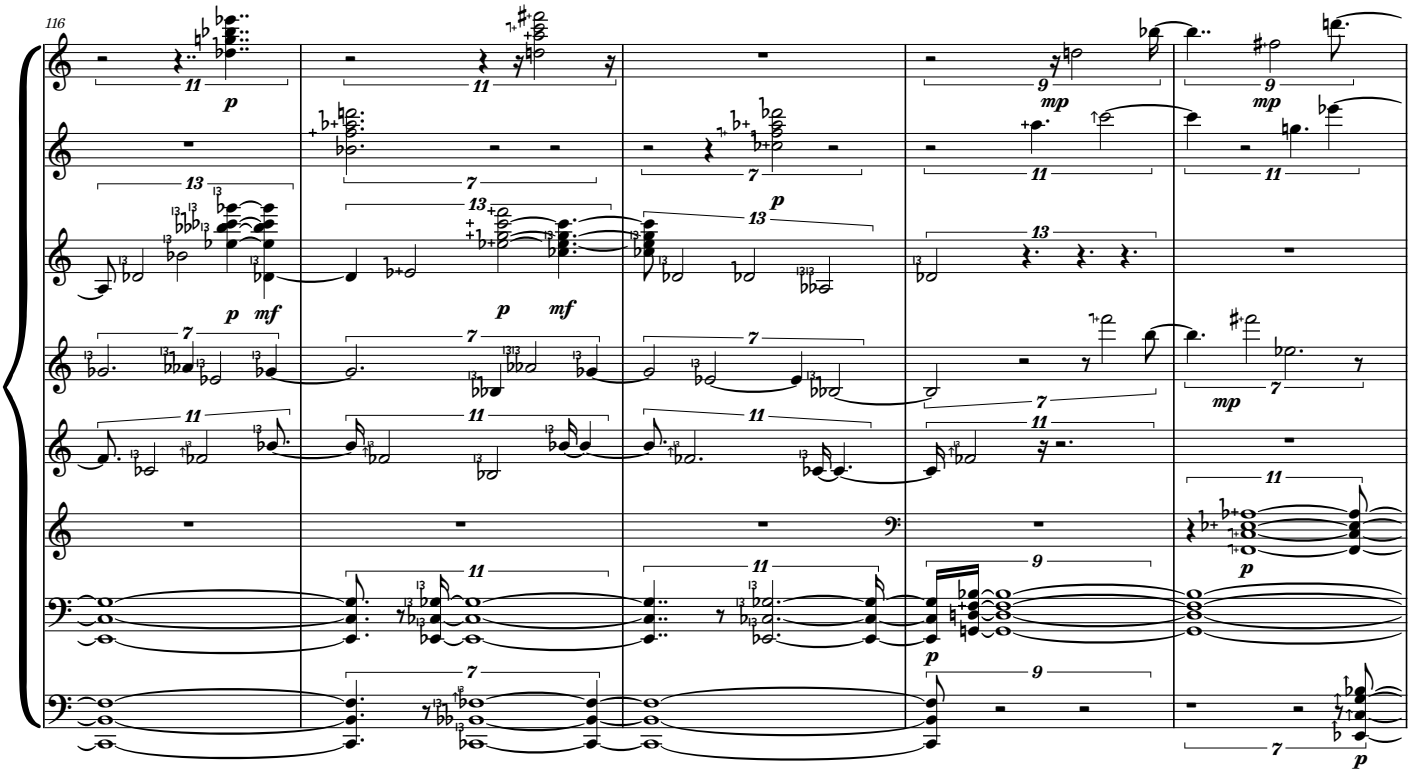

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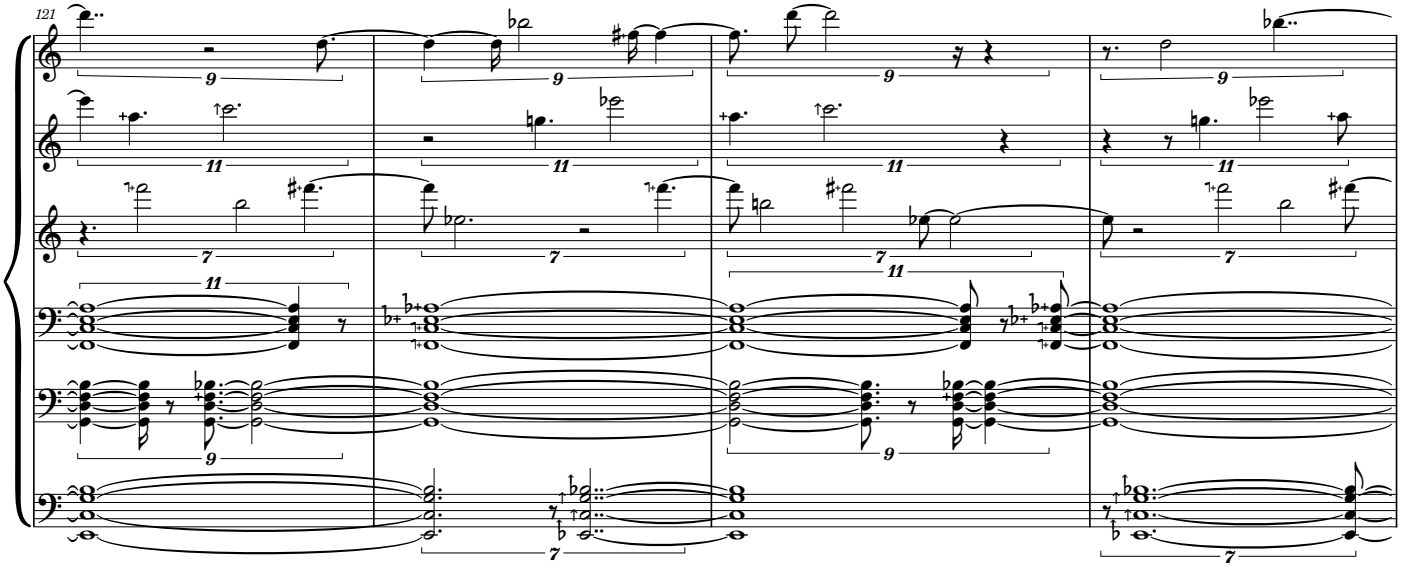

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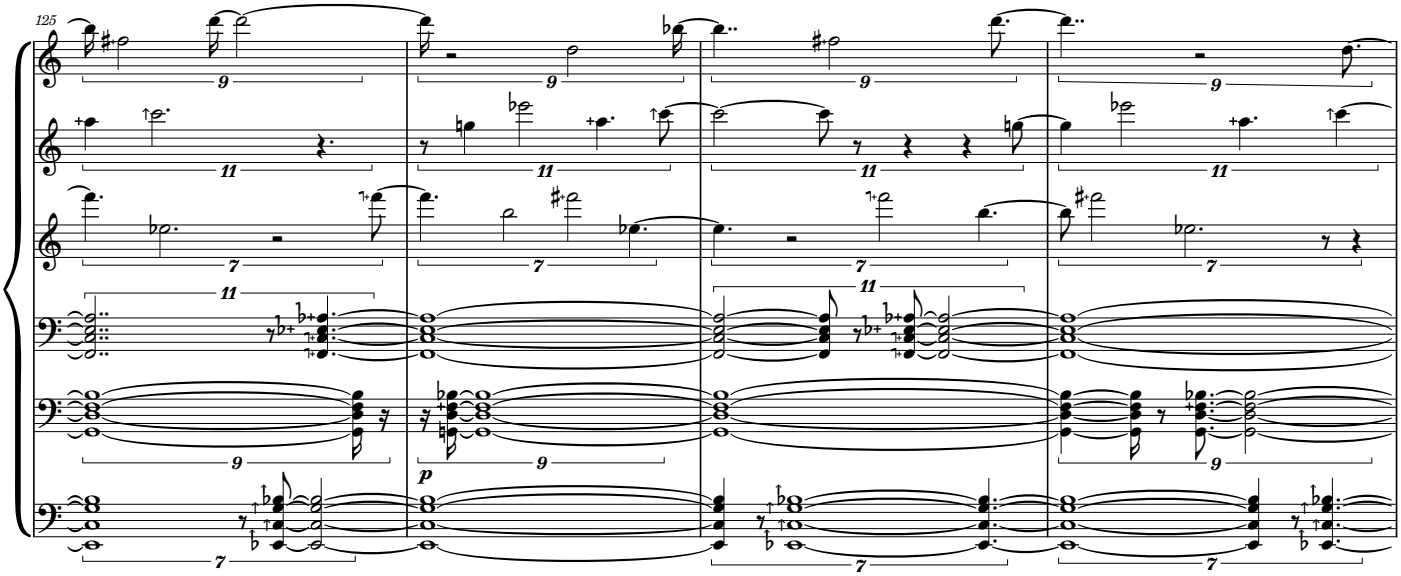

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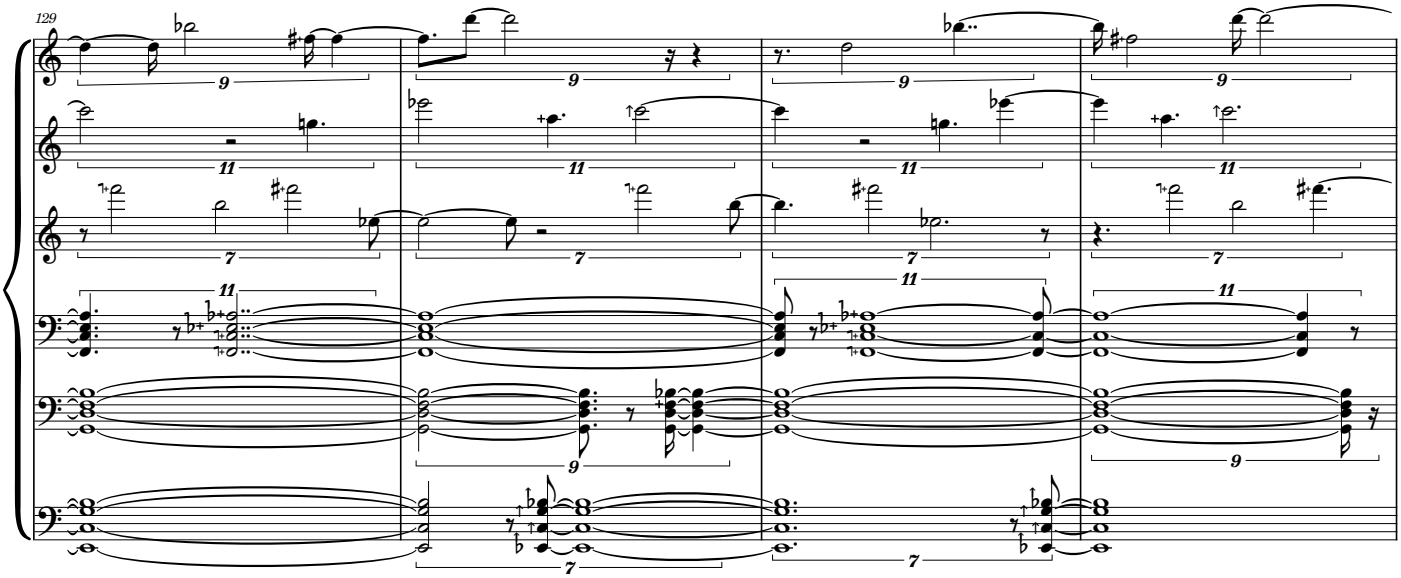

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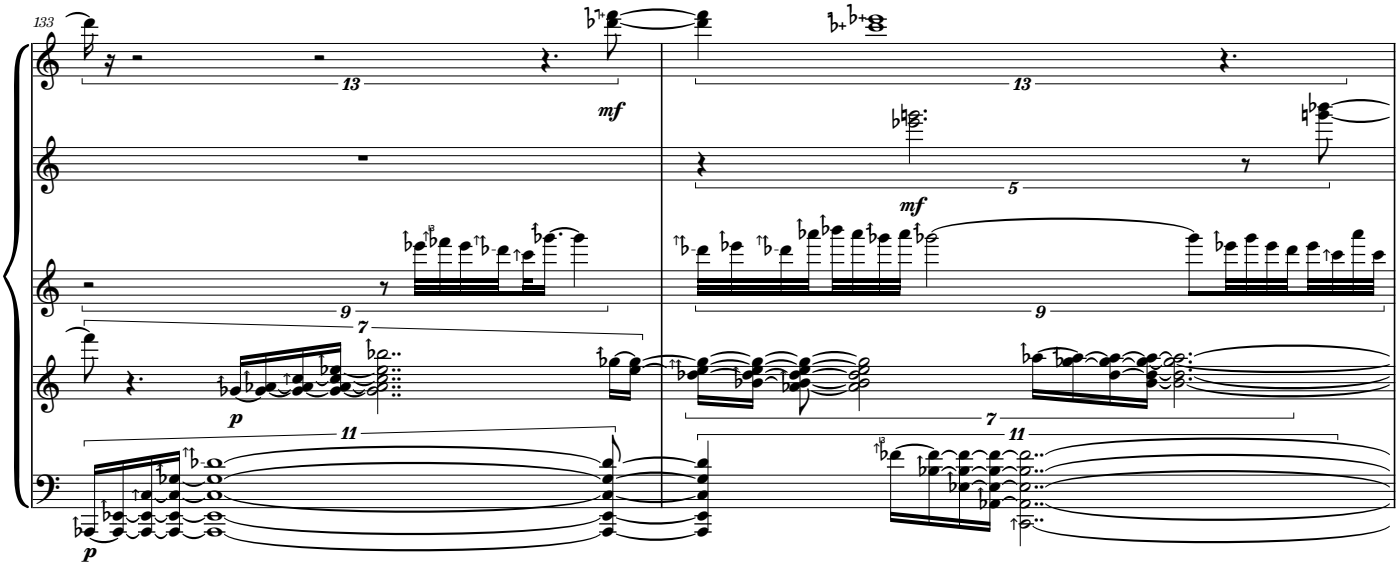

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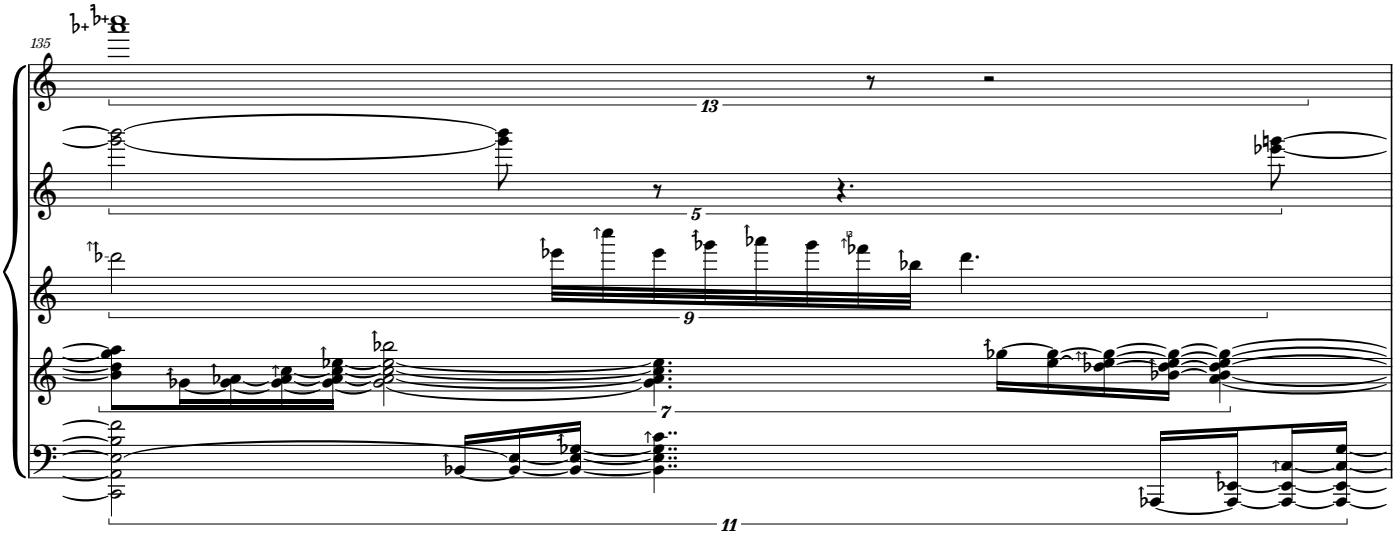

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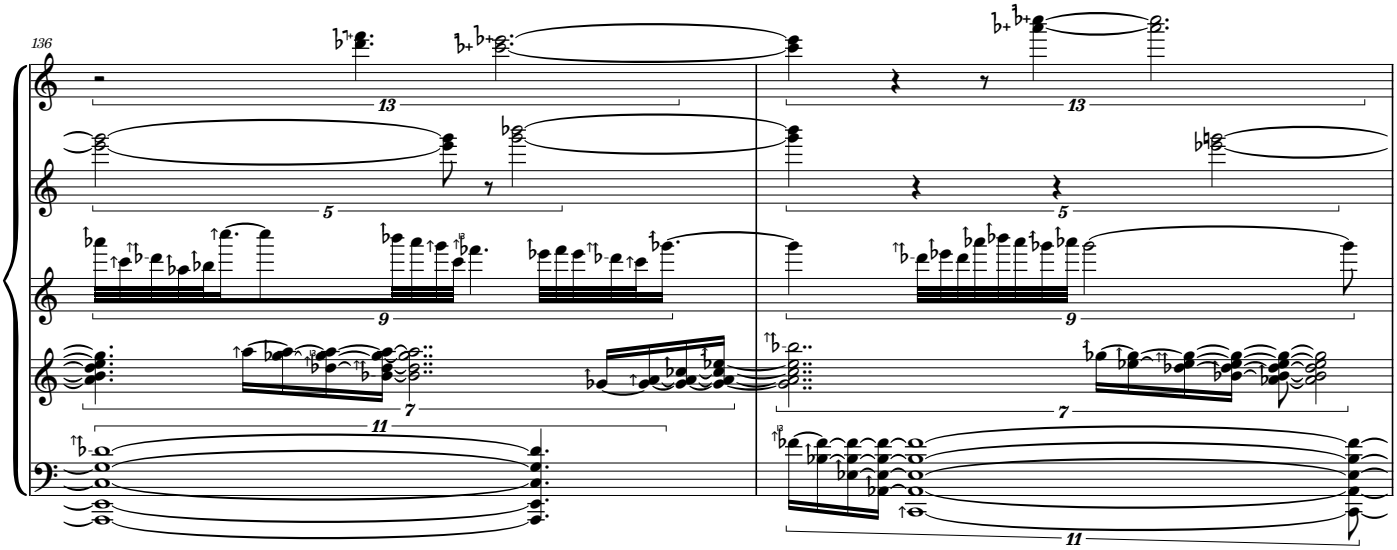

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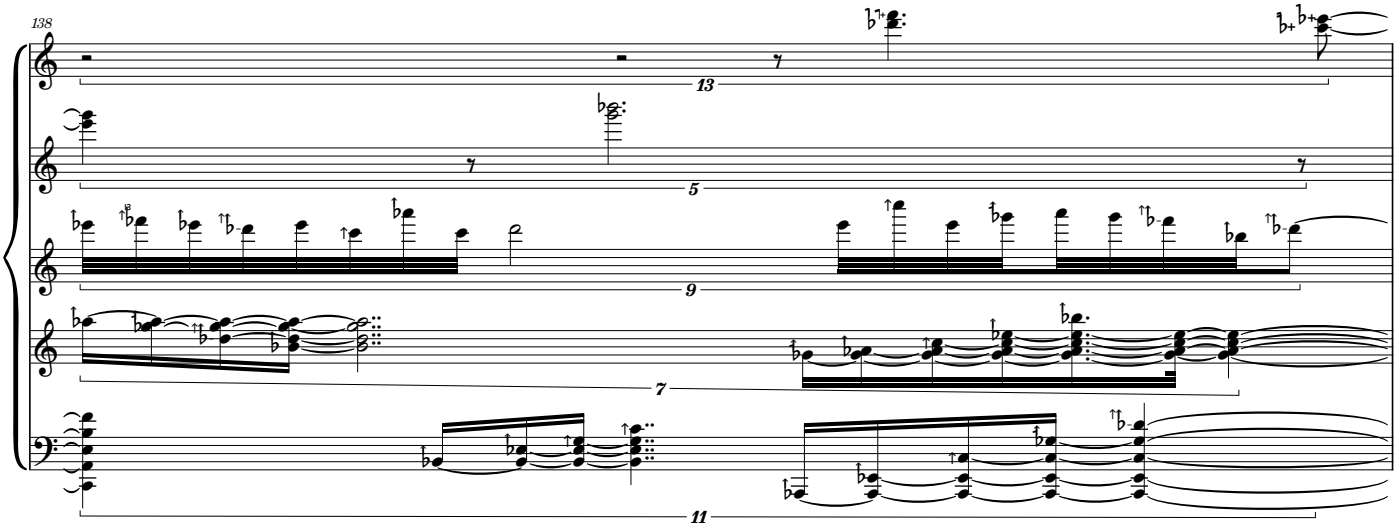

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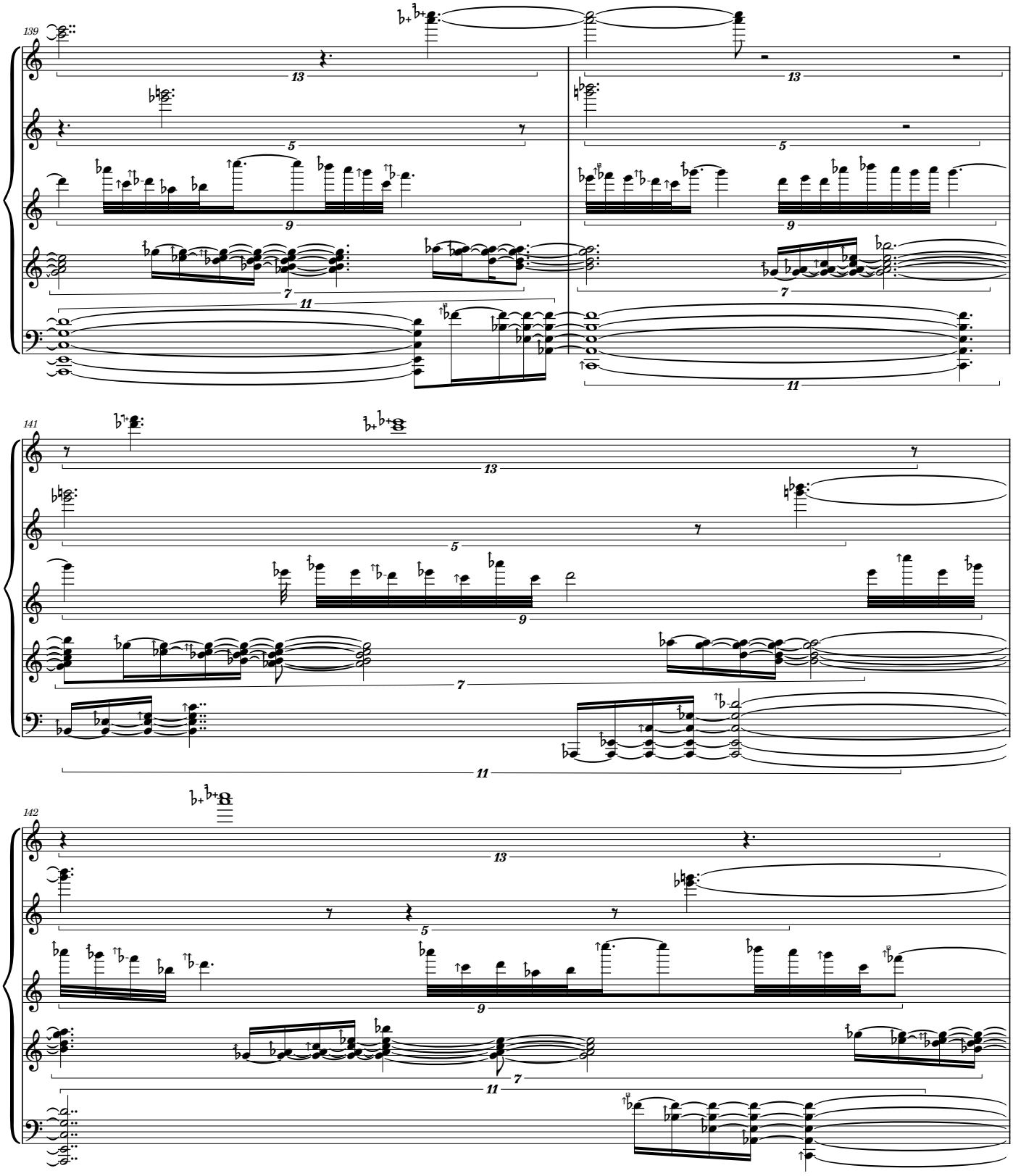

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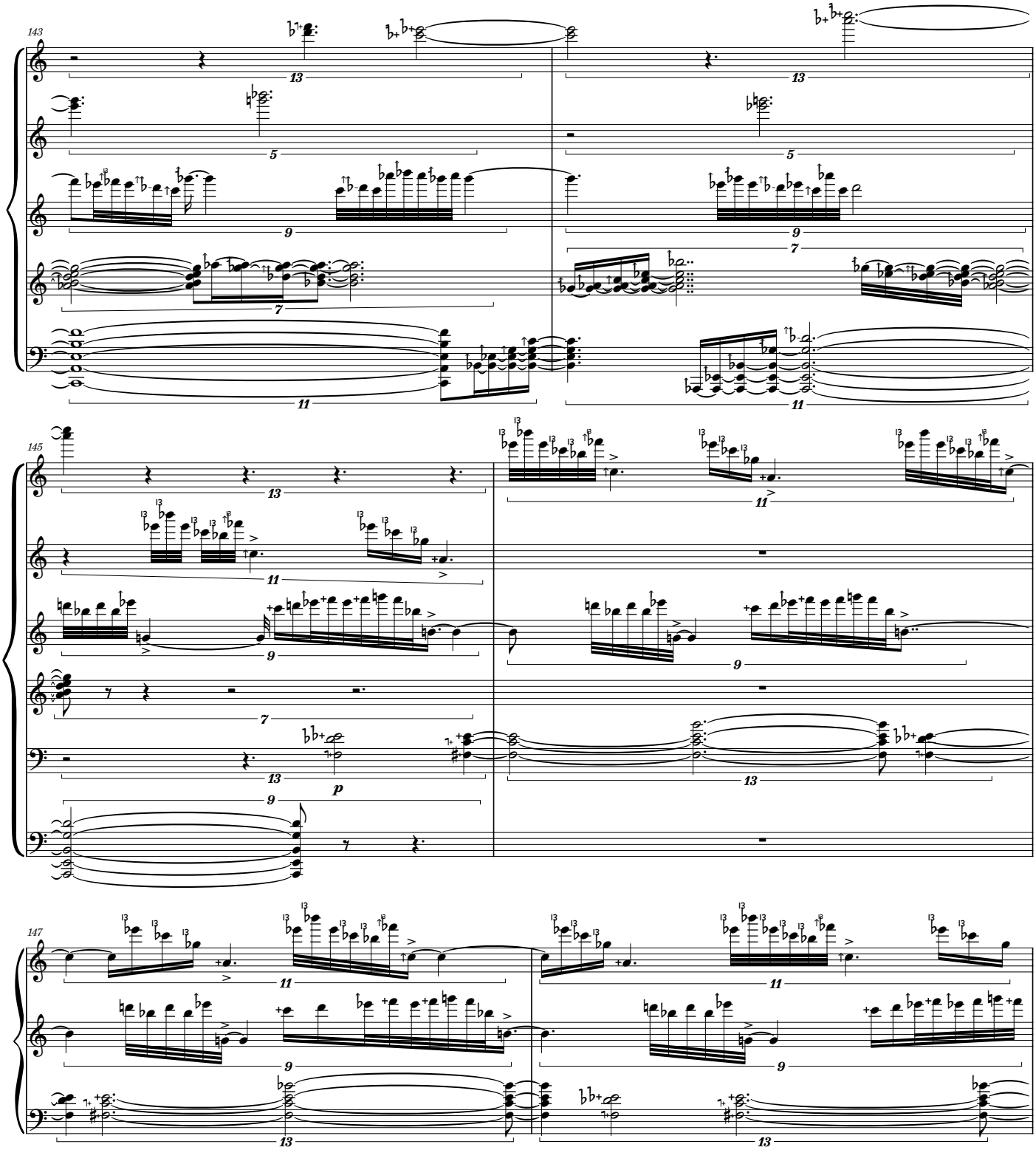

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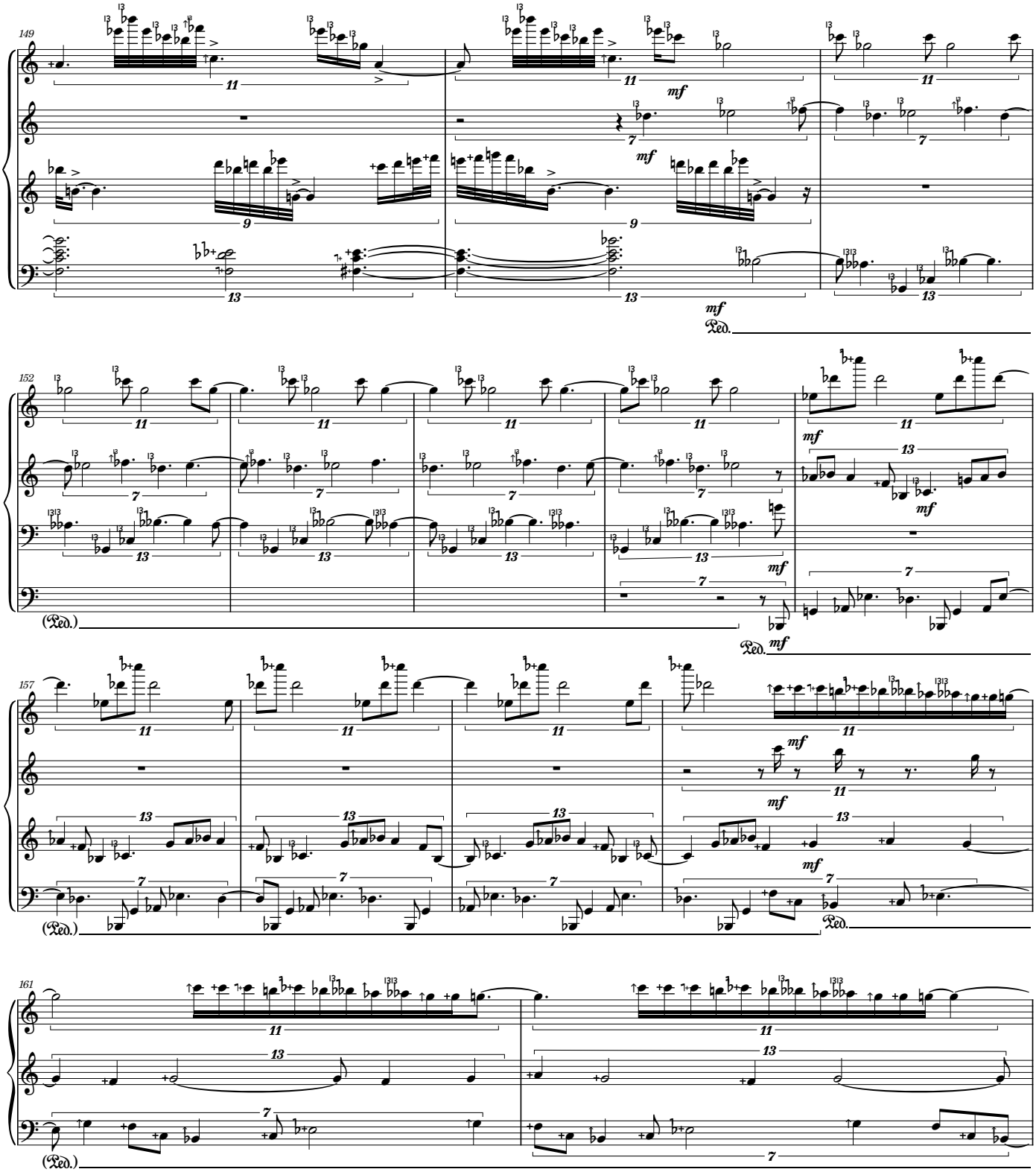

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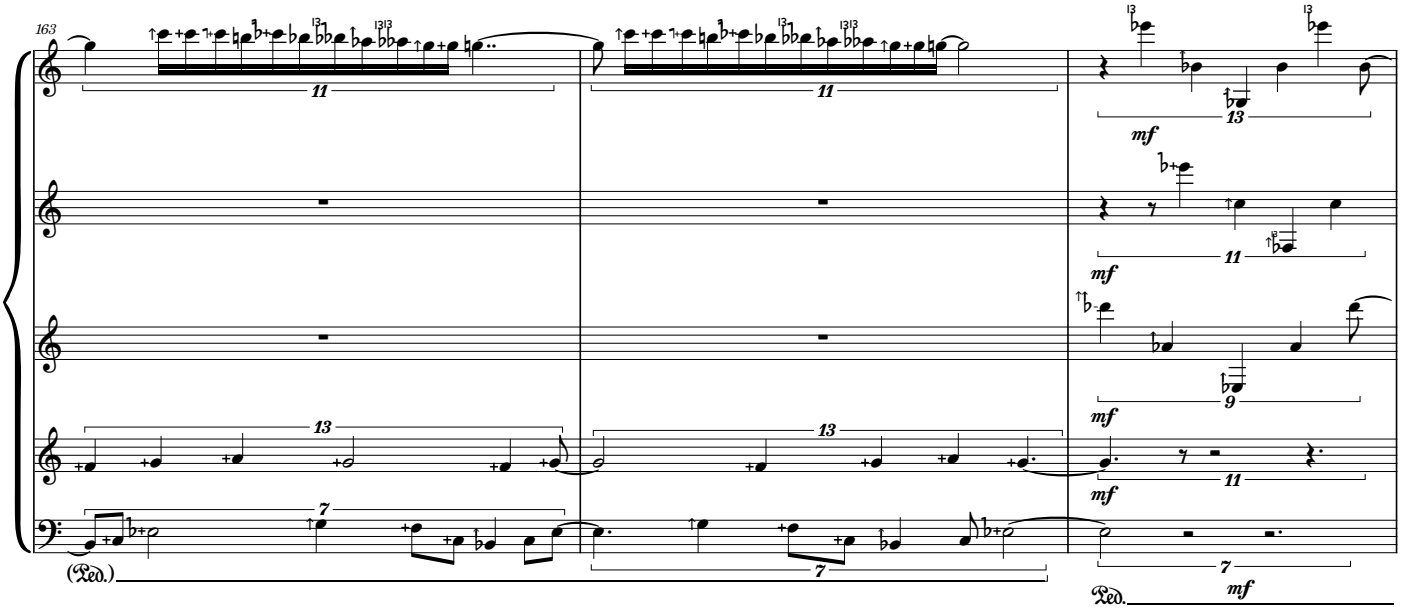

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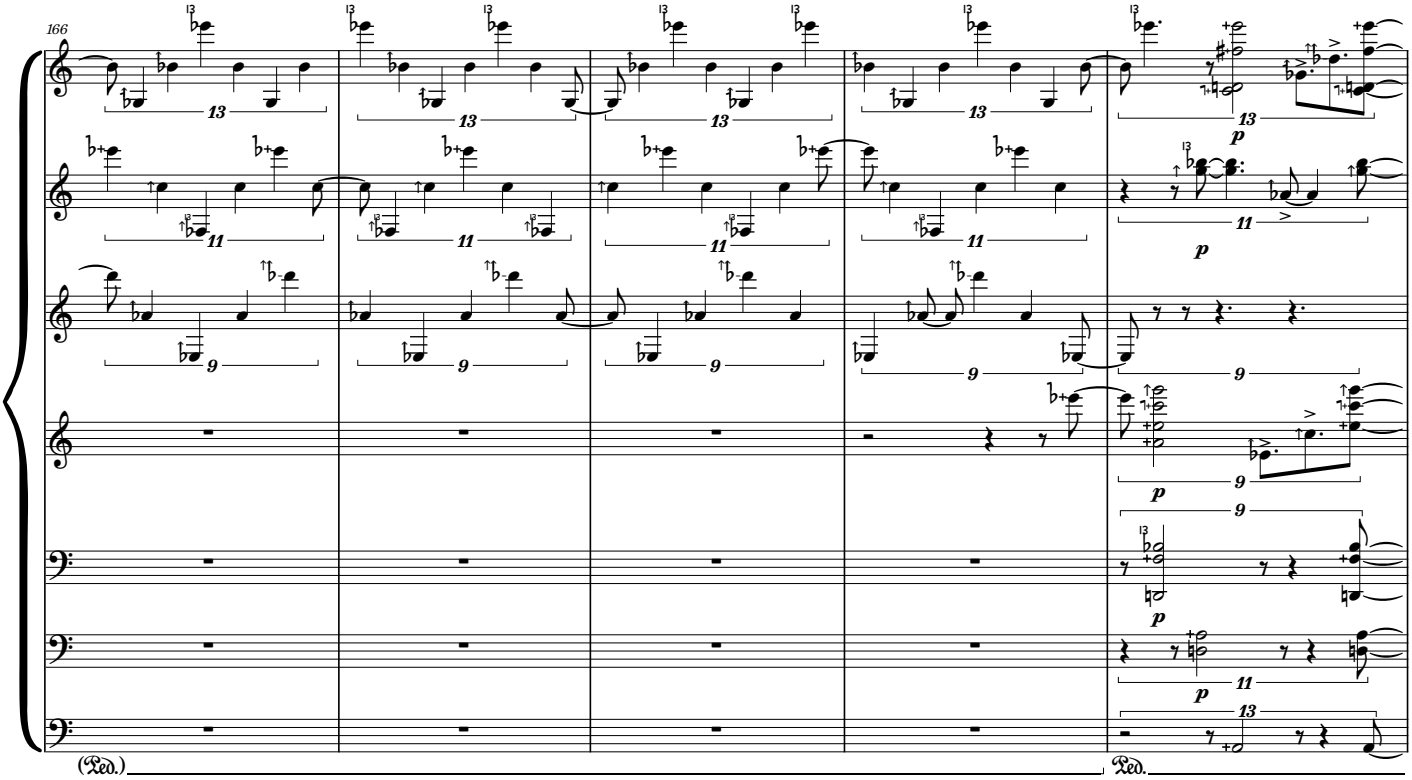

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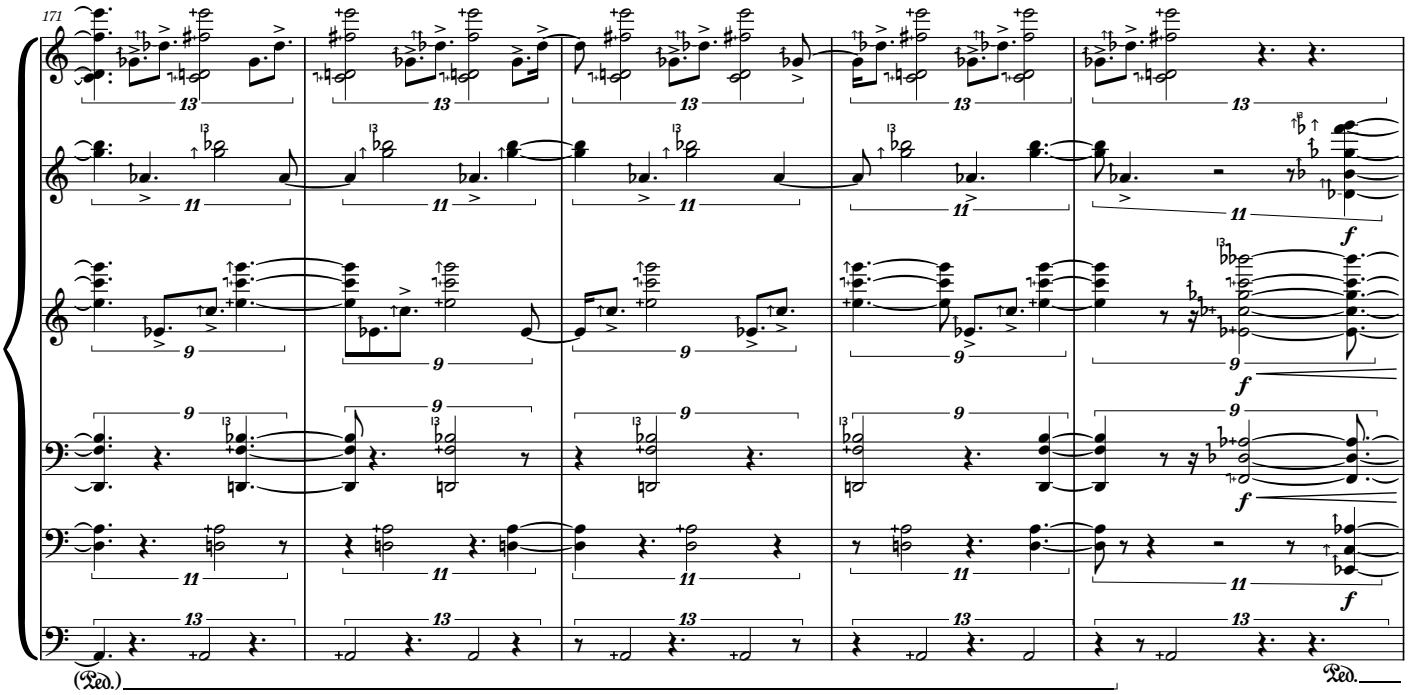

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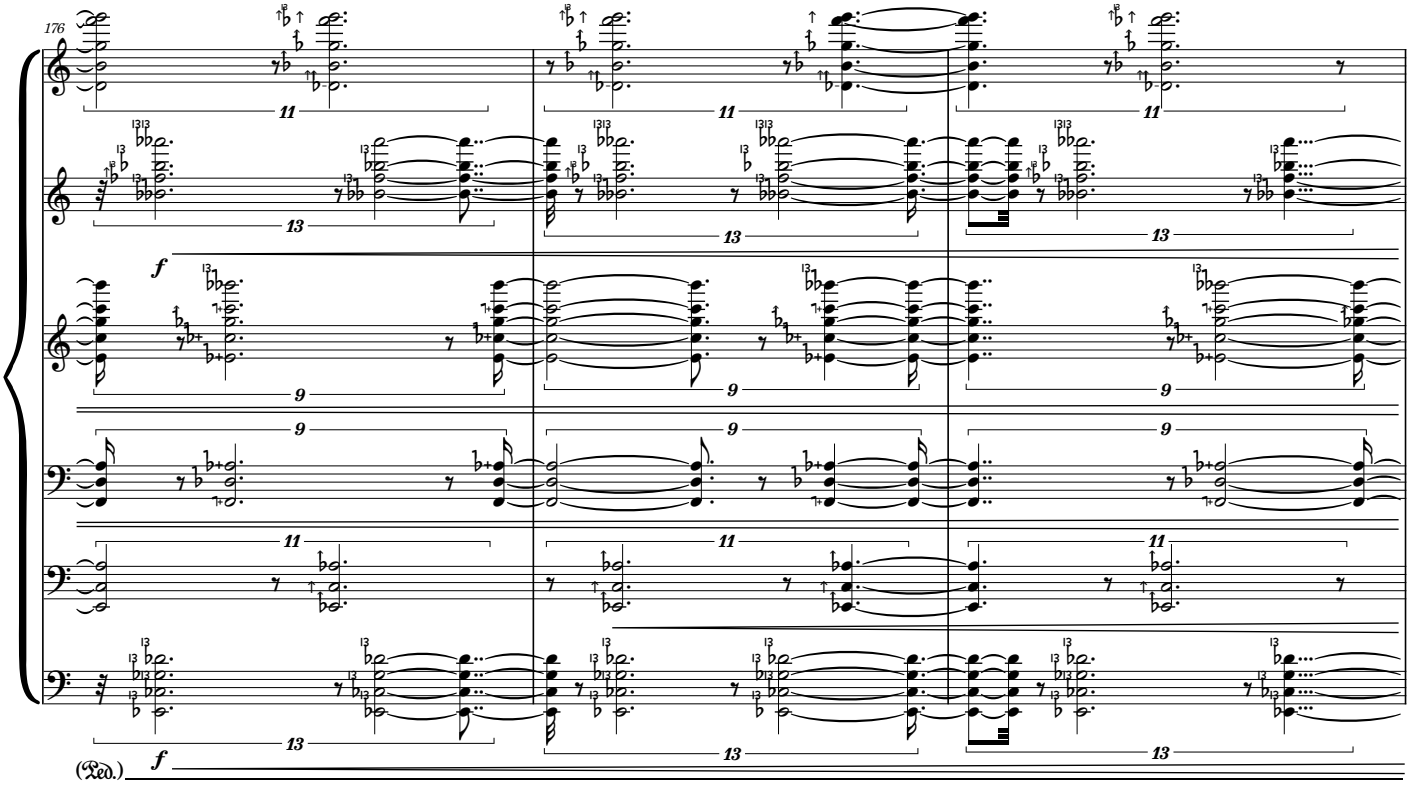

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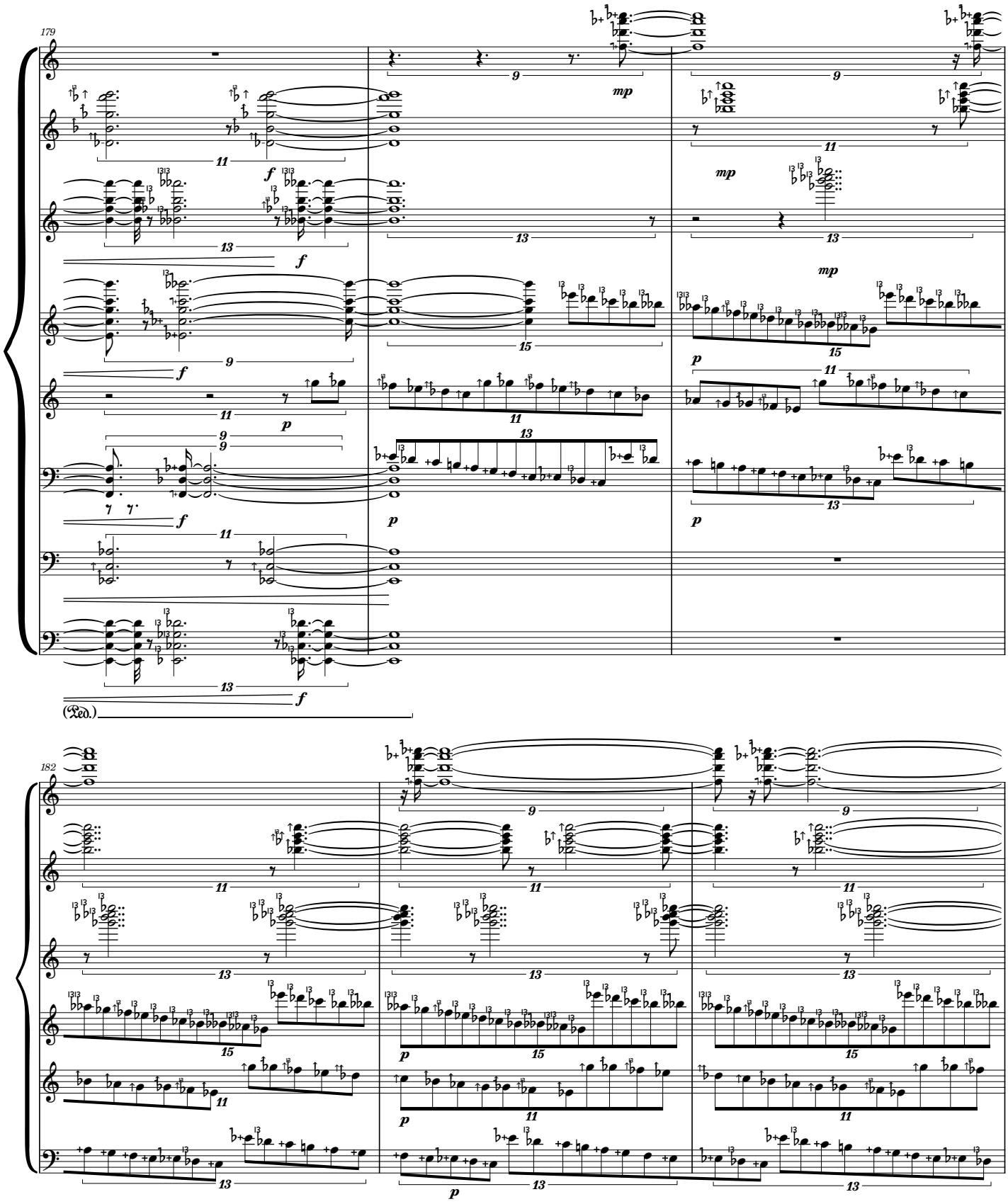

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157
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161
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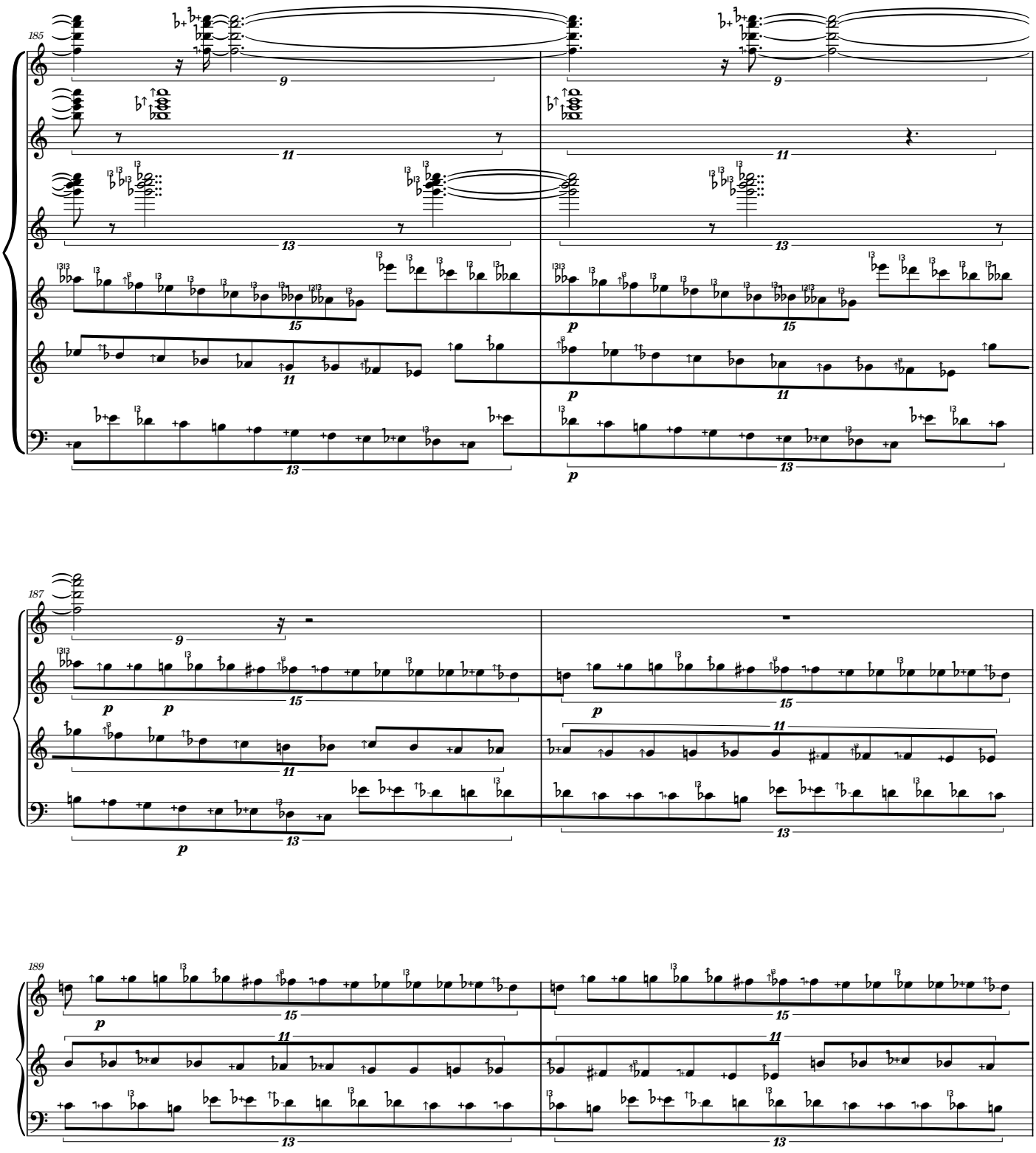

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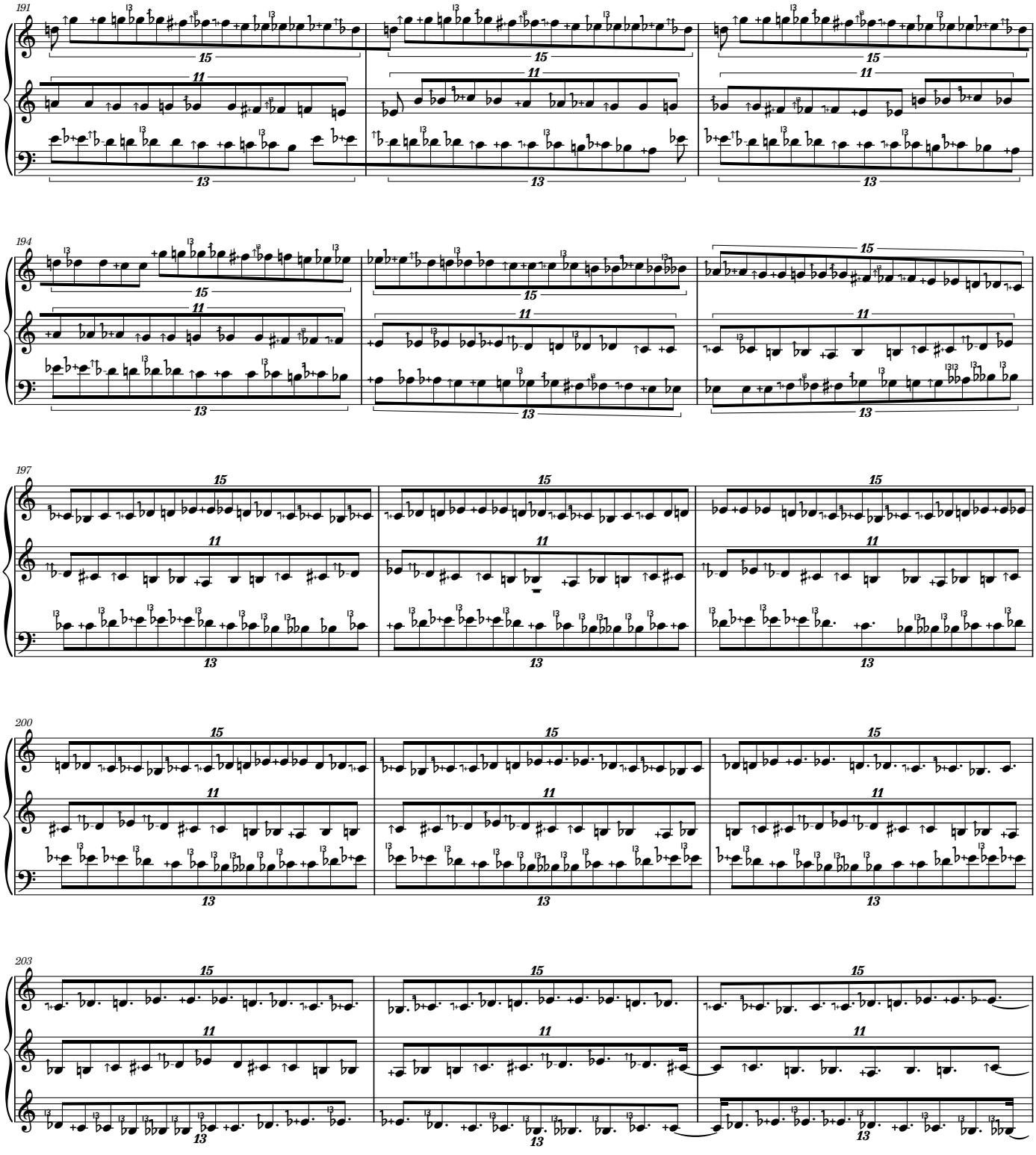

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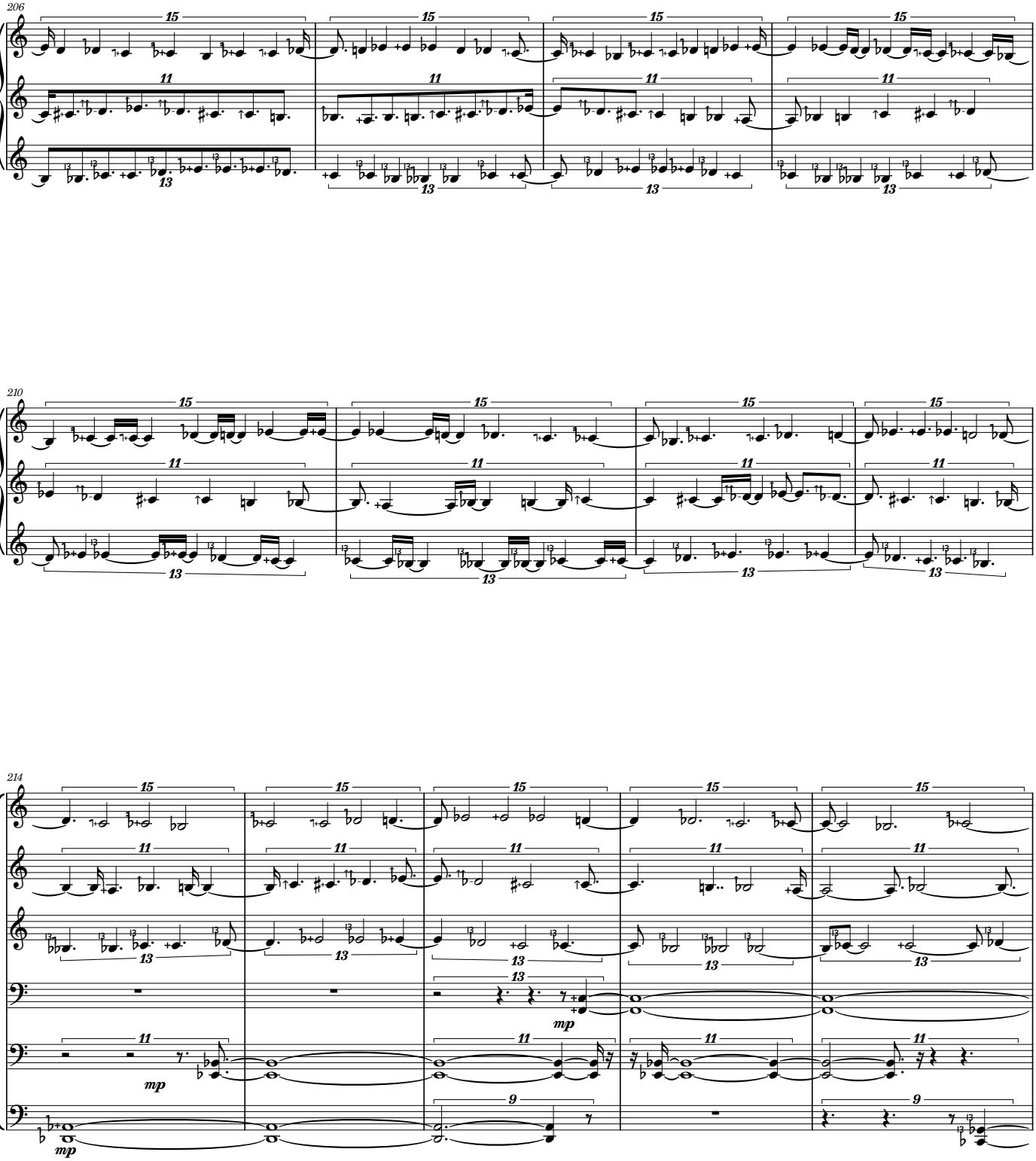

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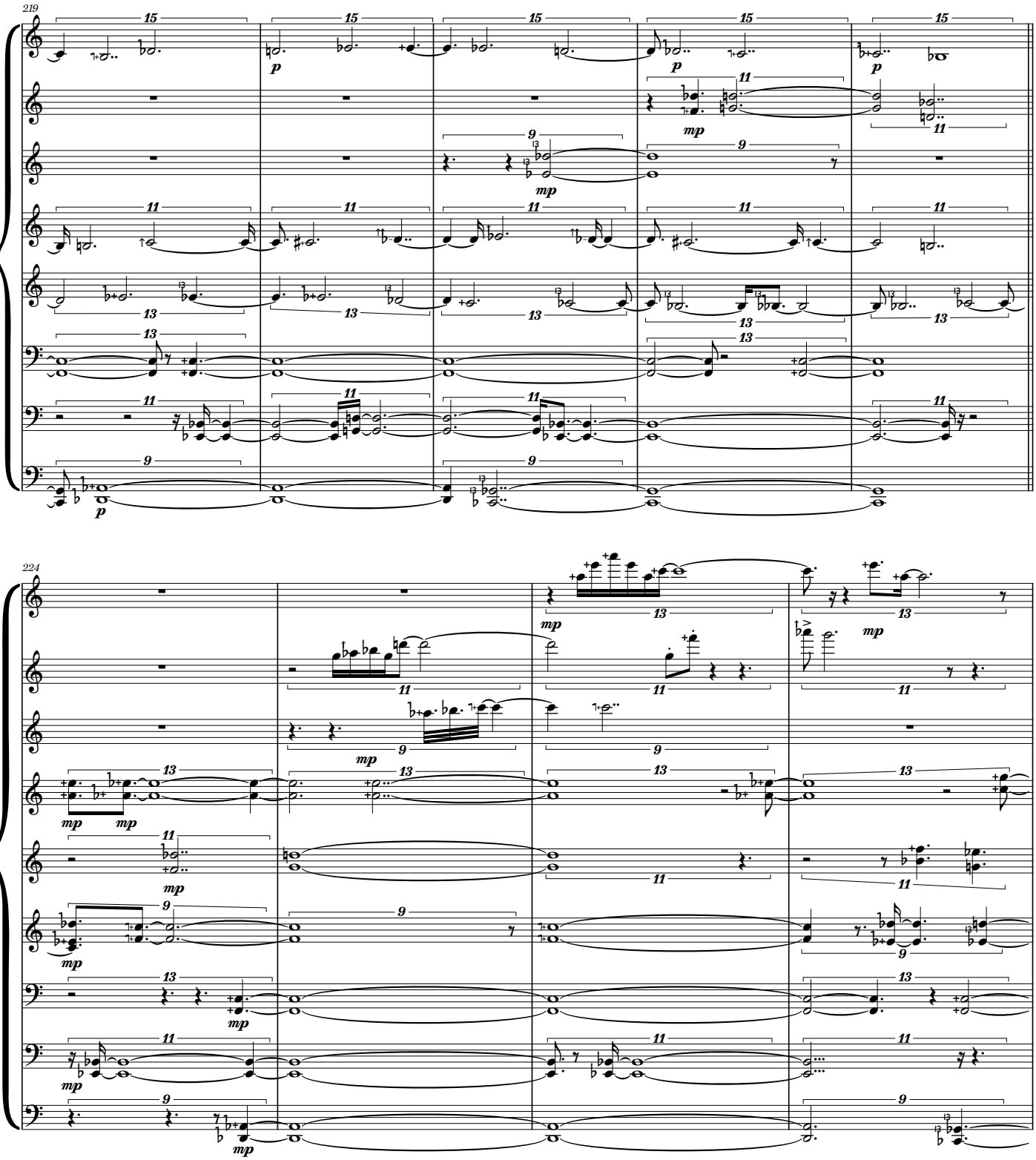

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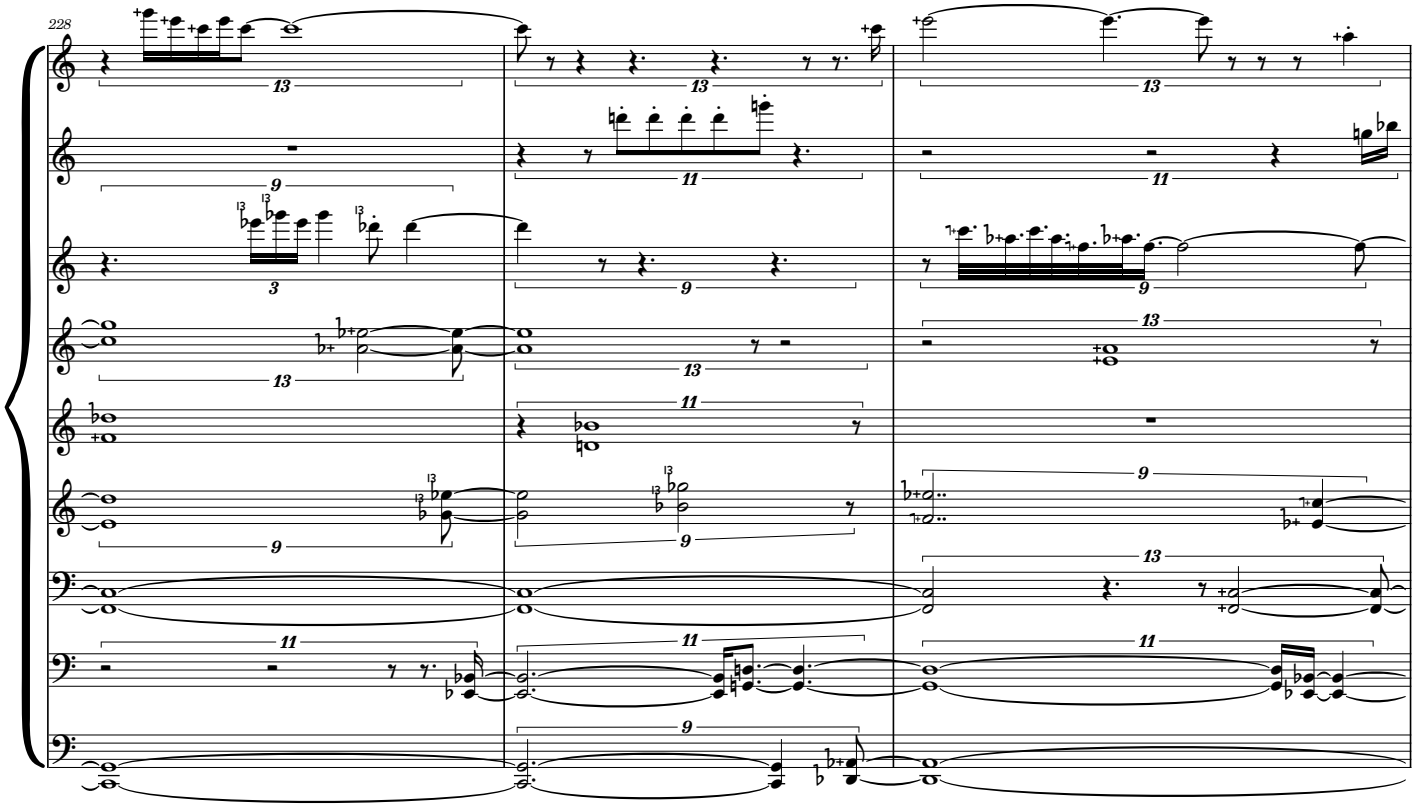

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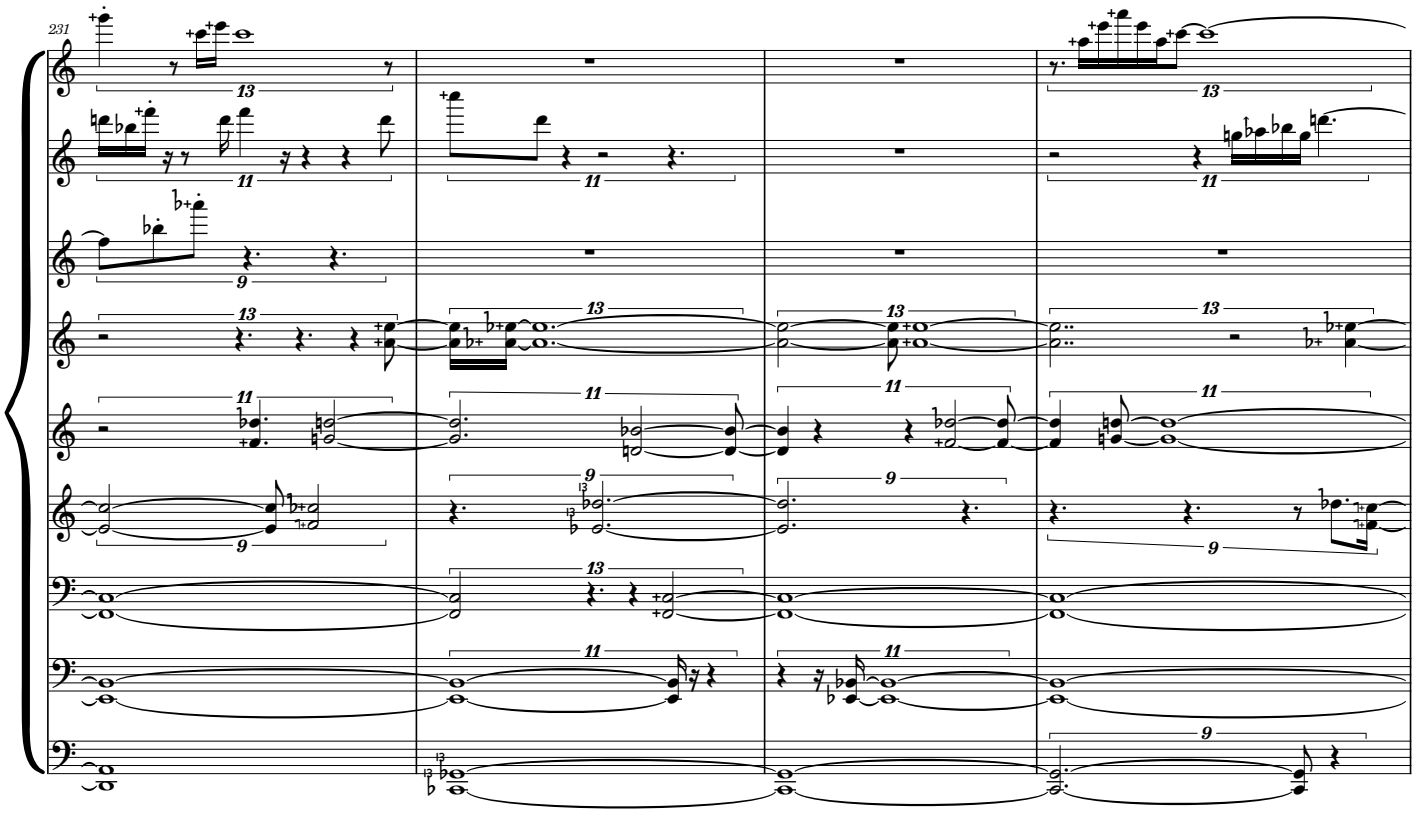

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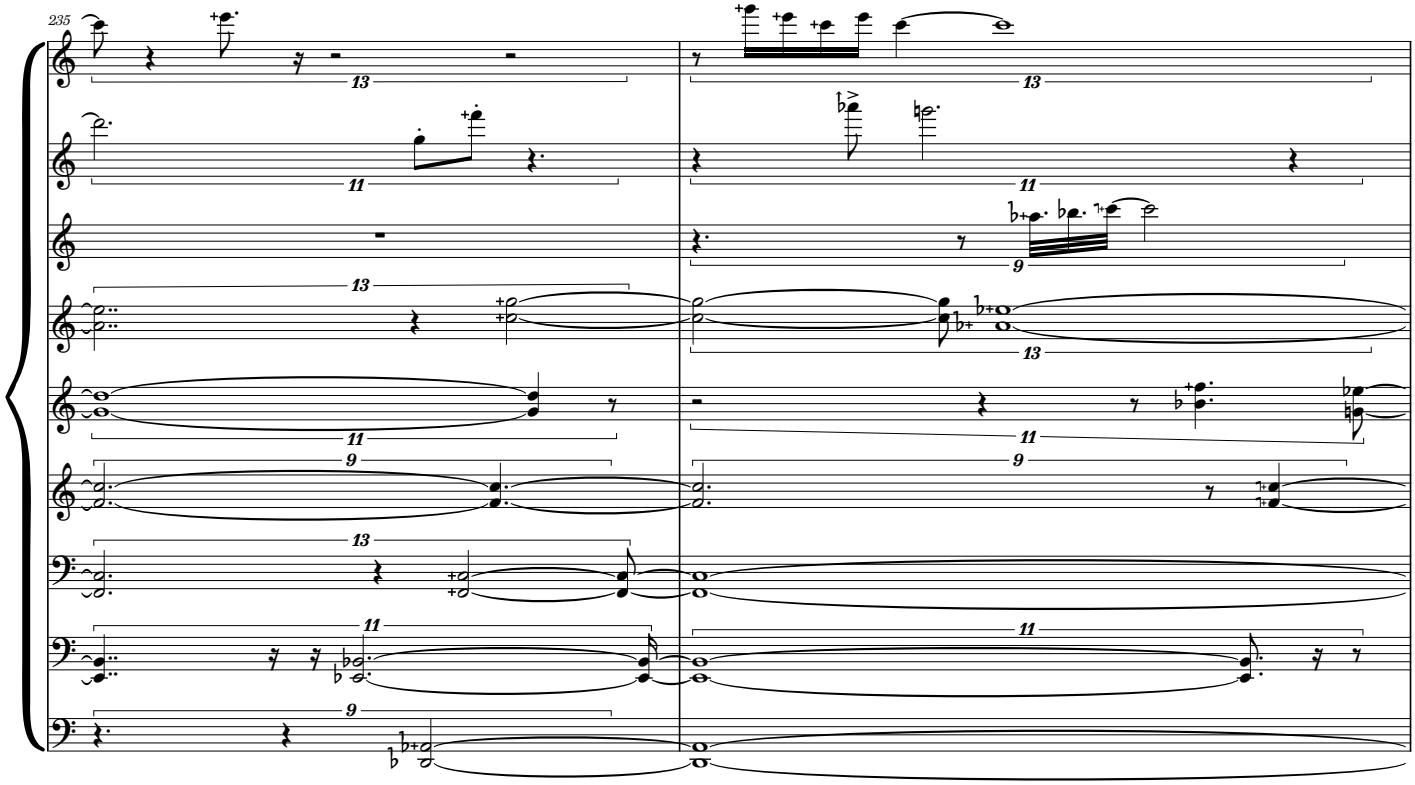

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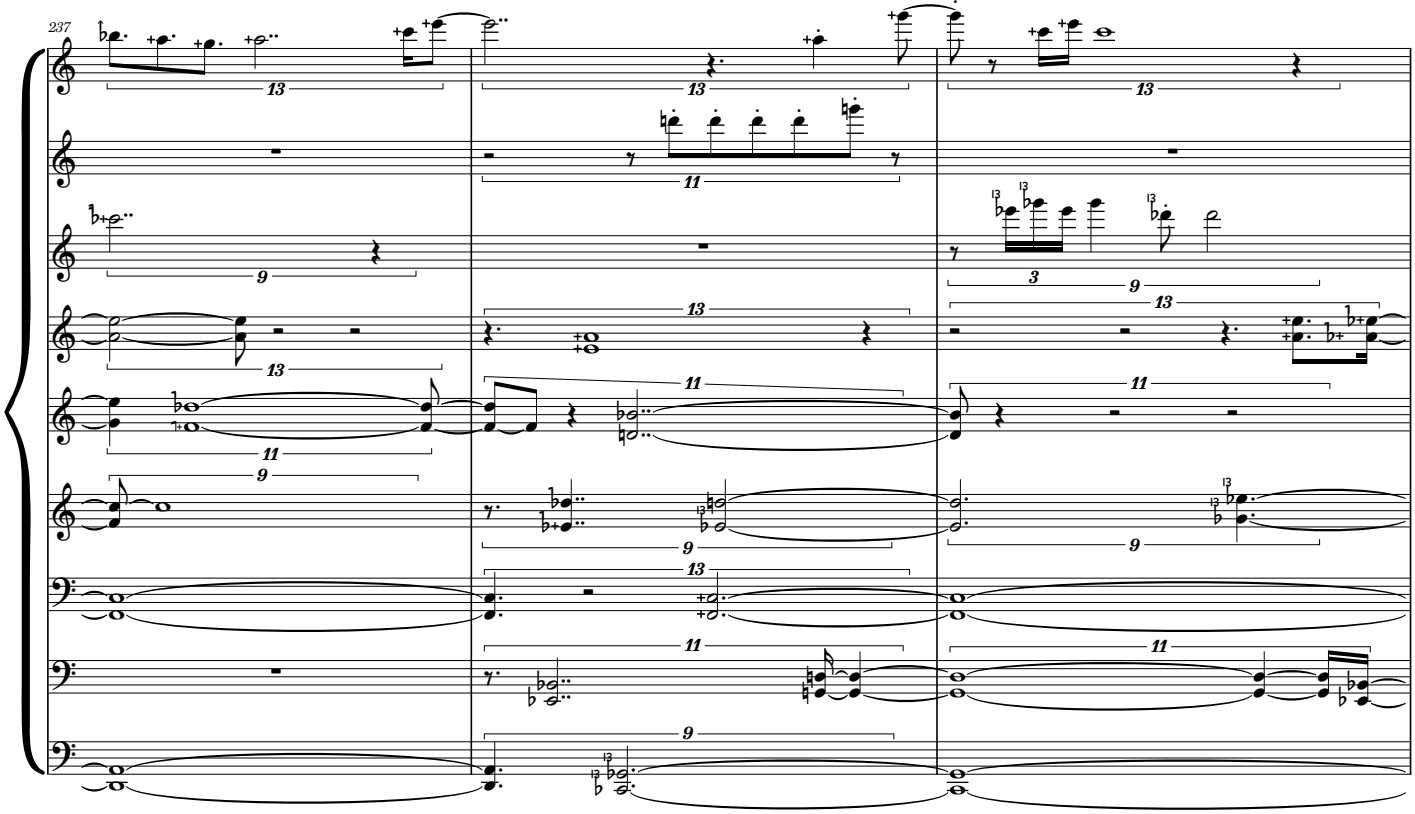

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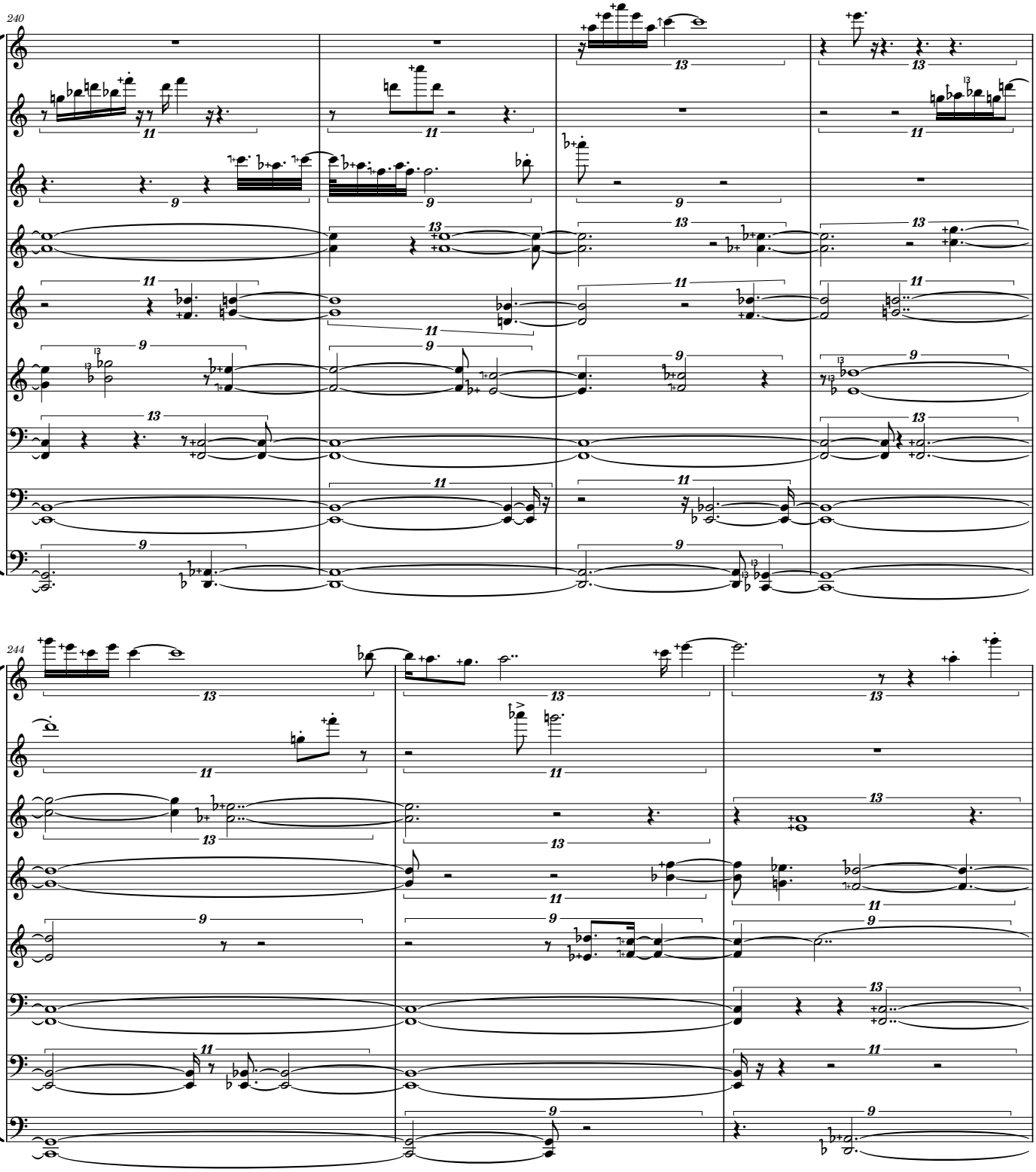

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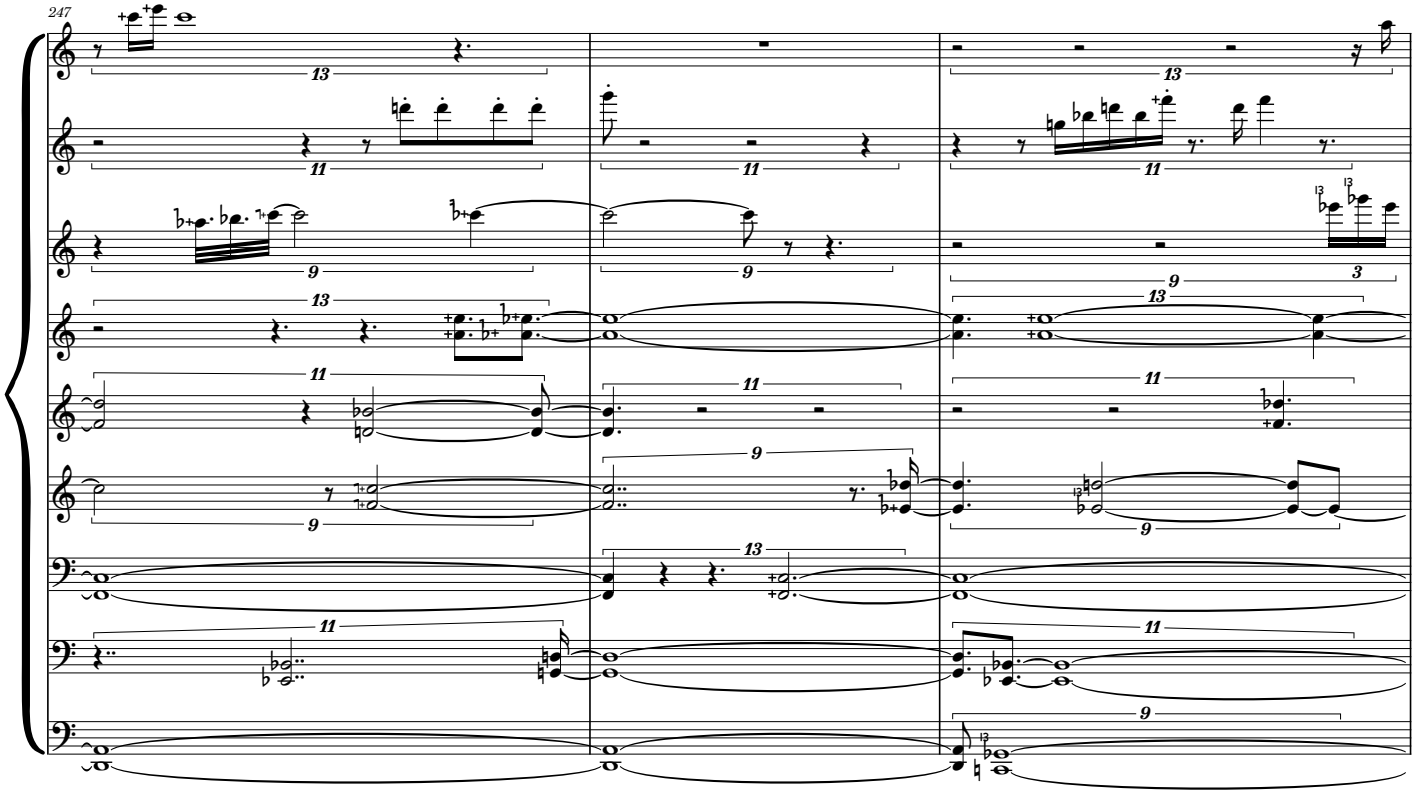

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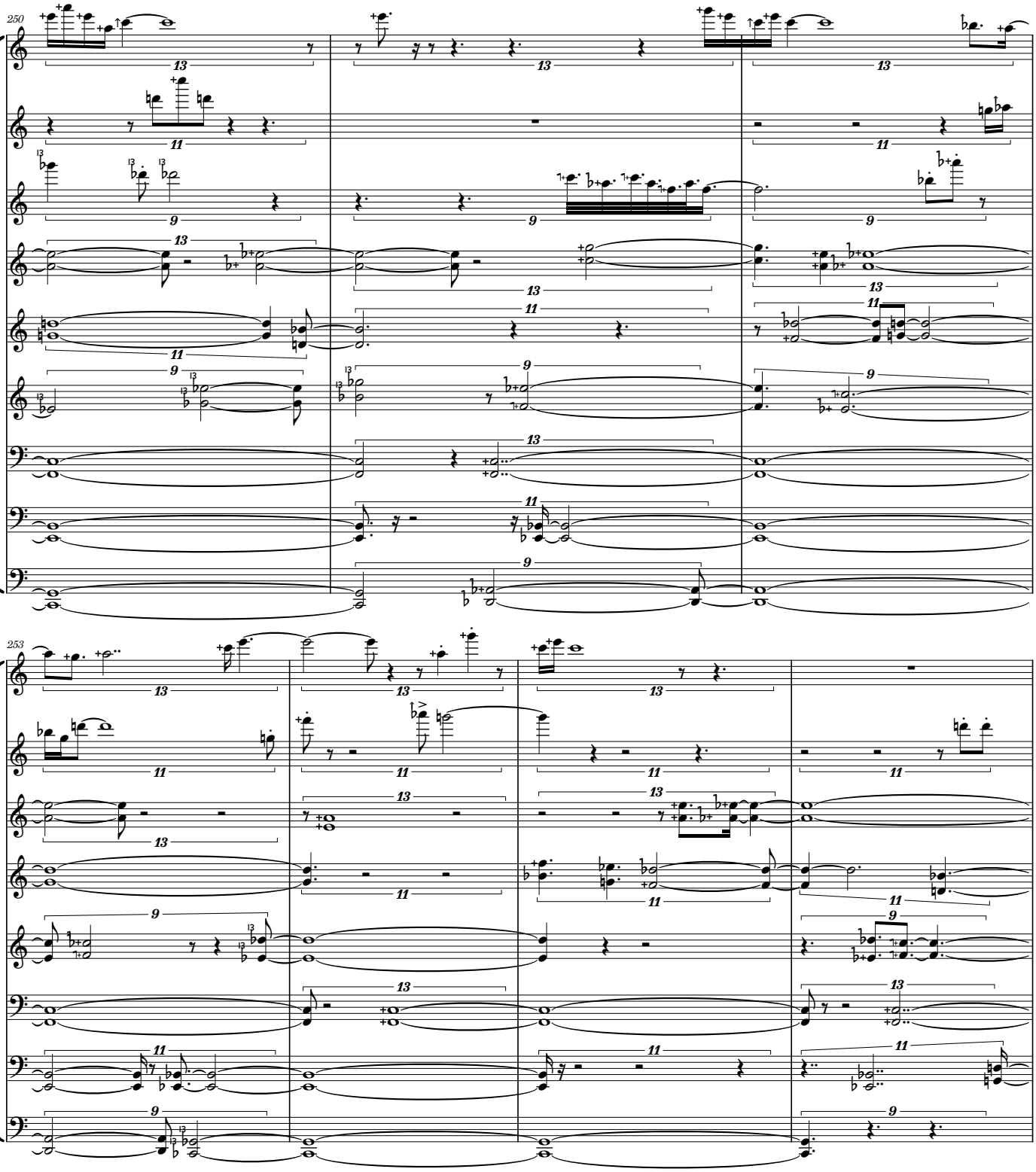

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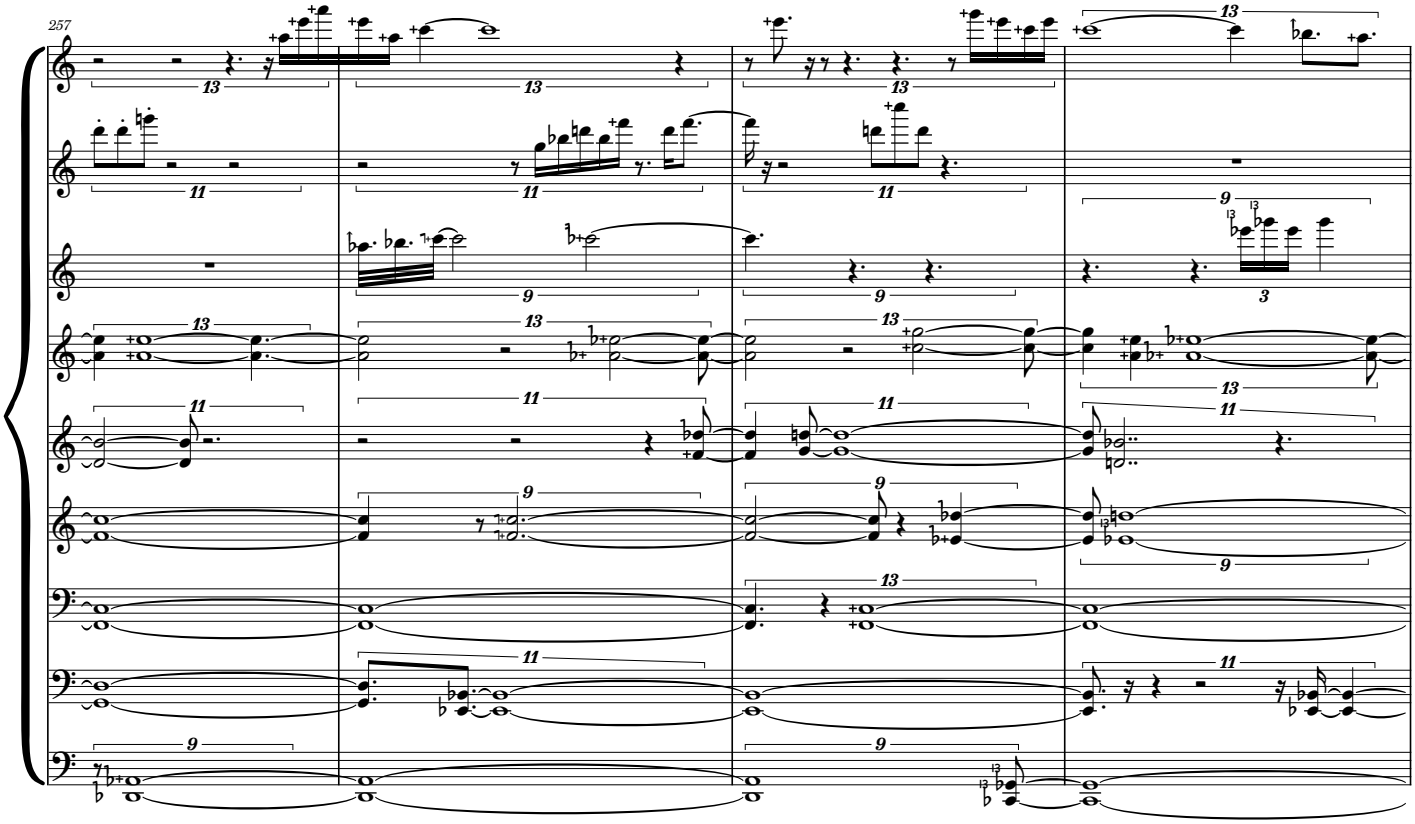

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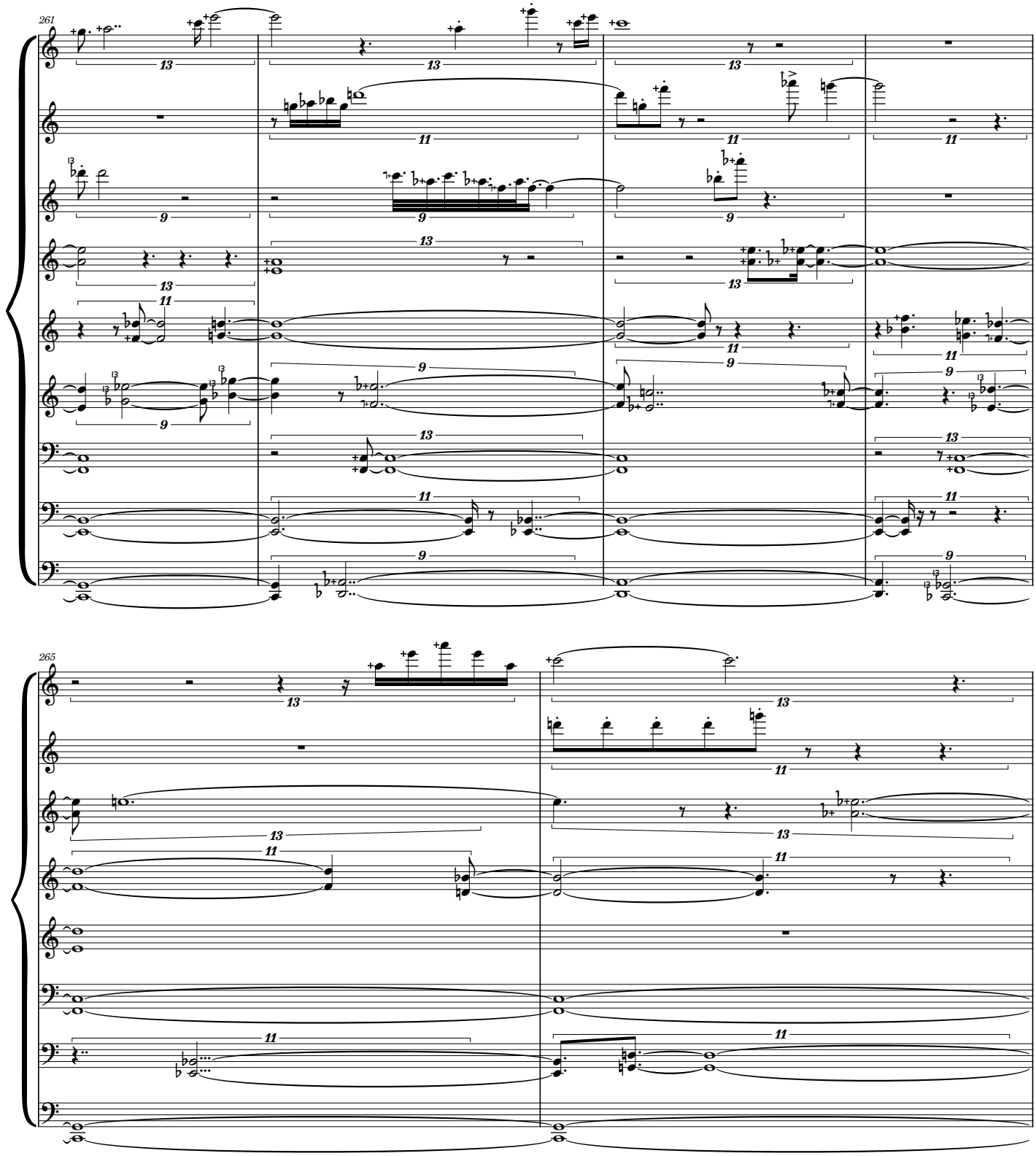

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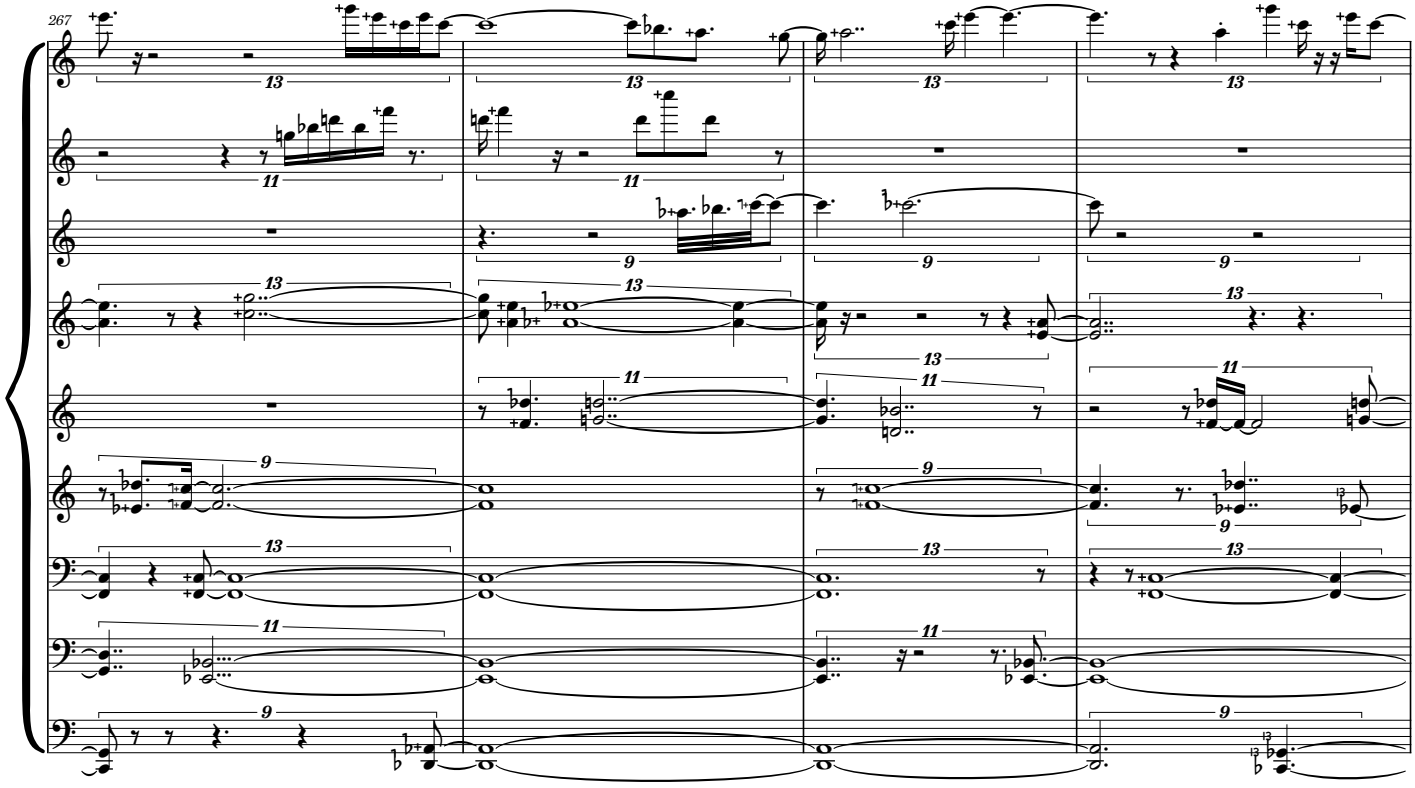

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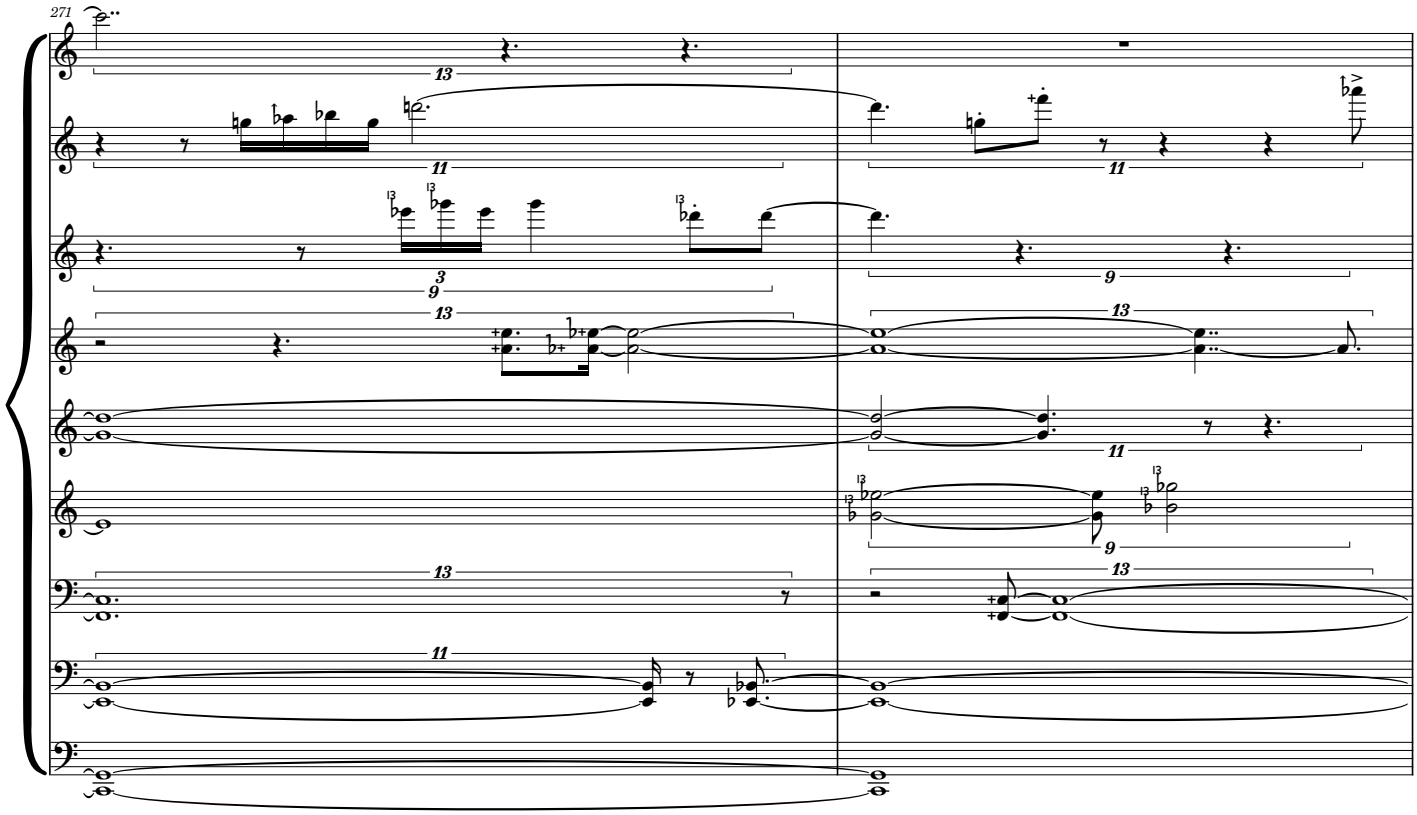

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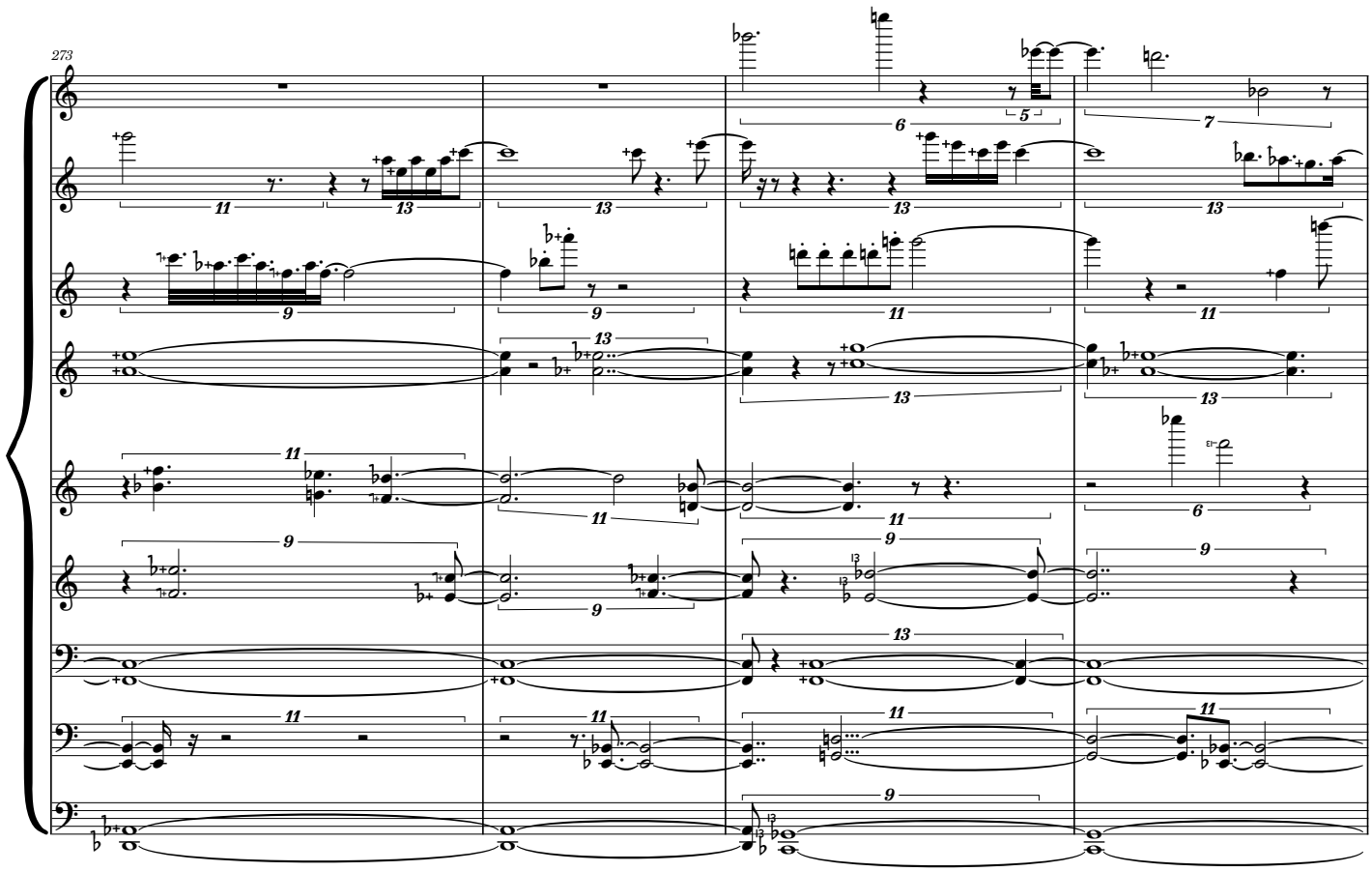

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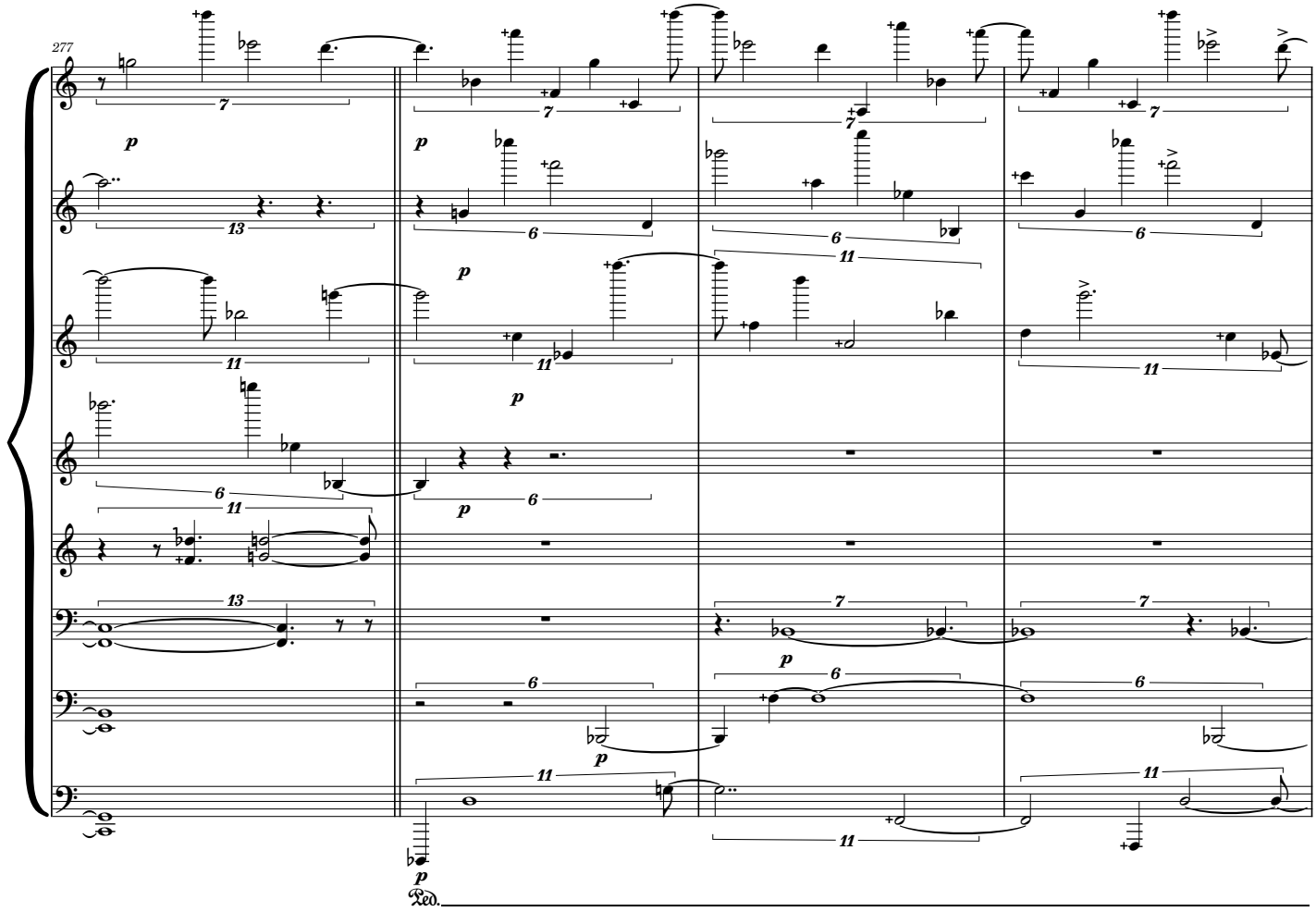

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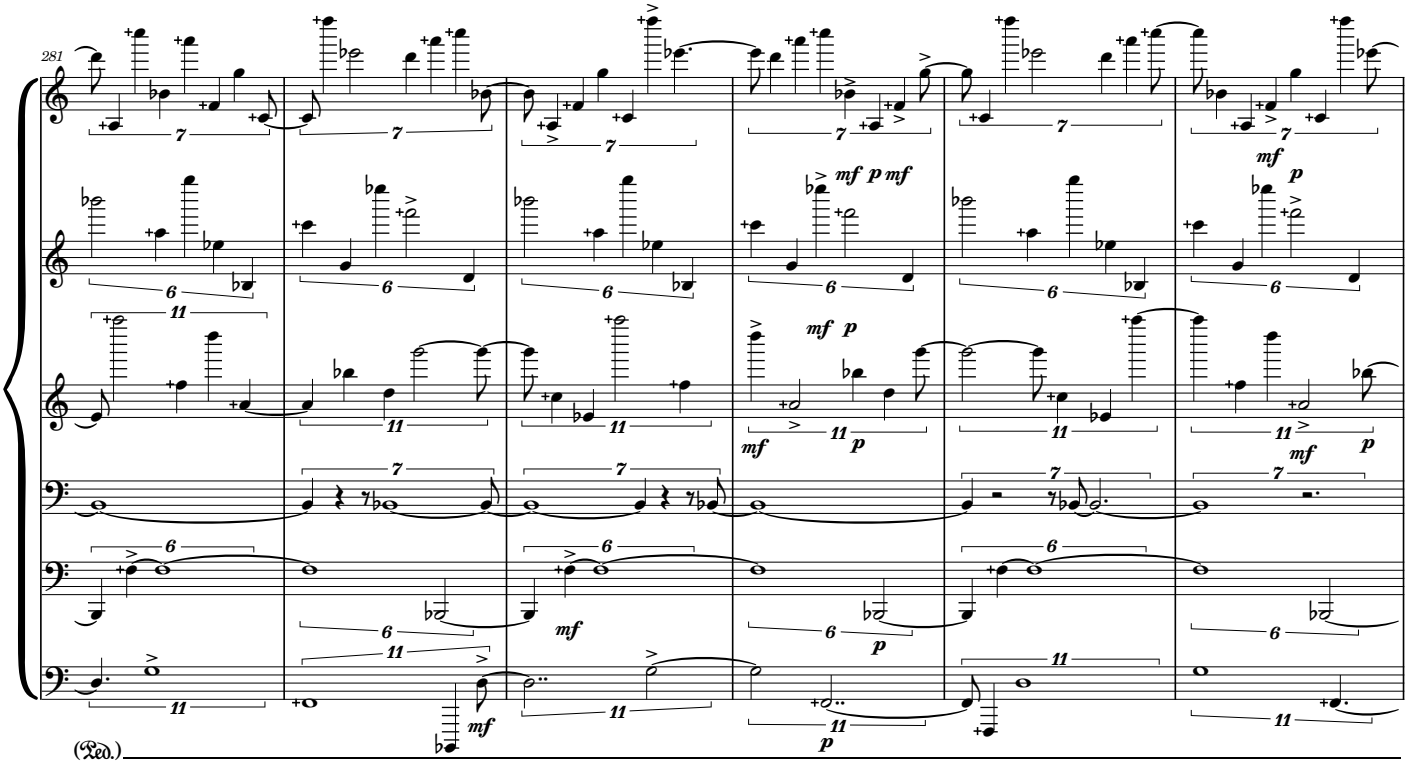

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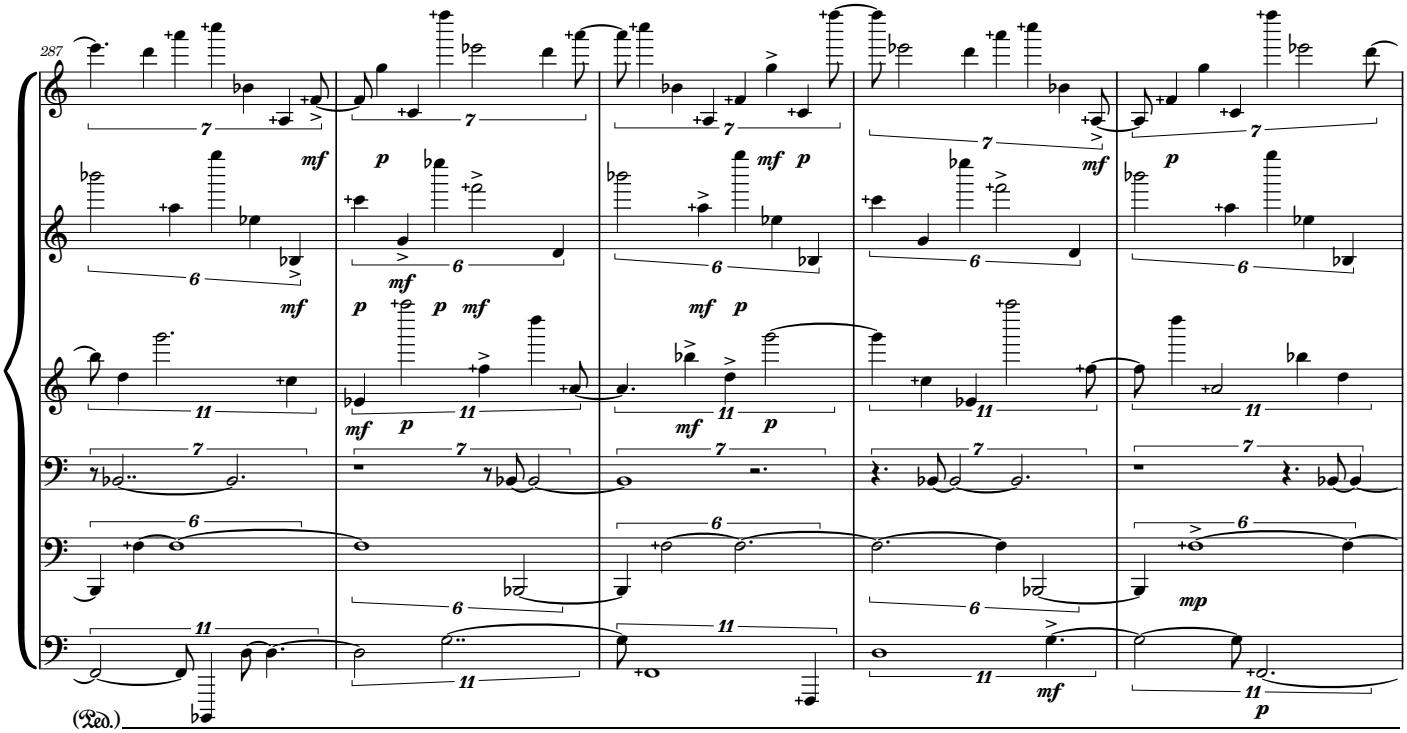

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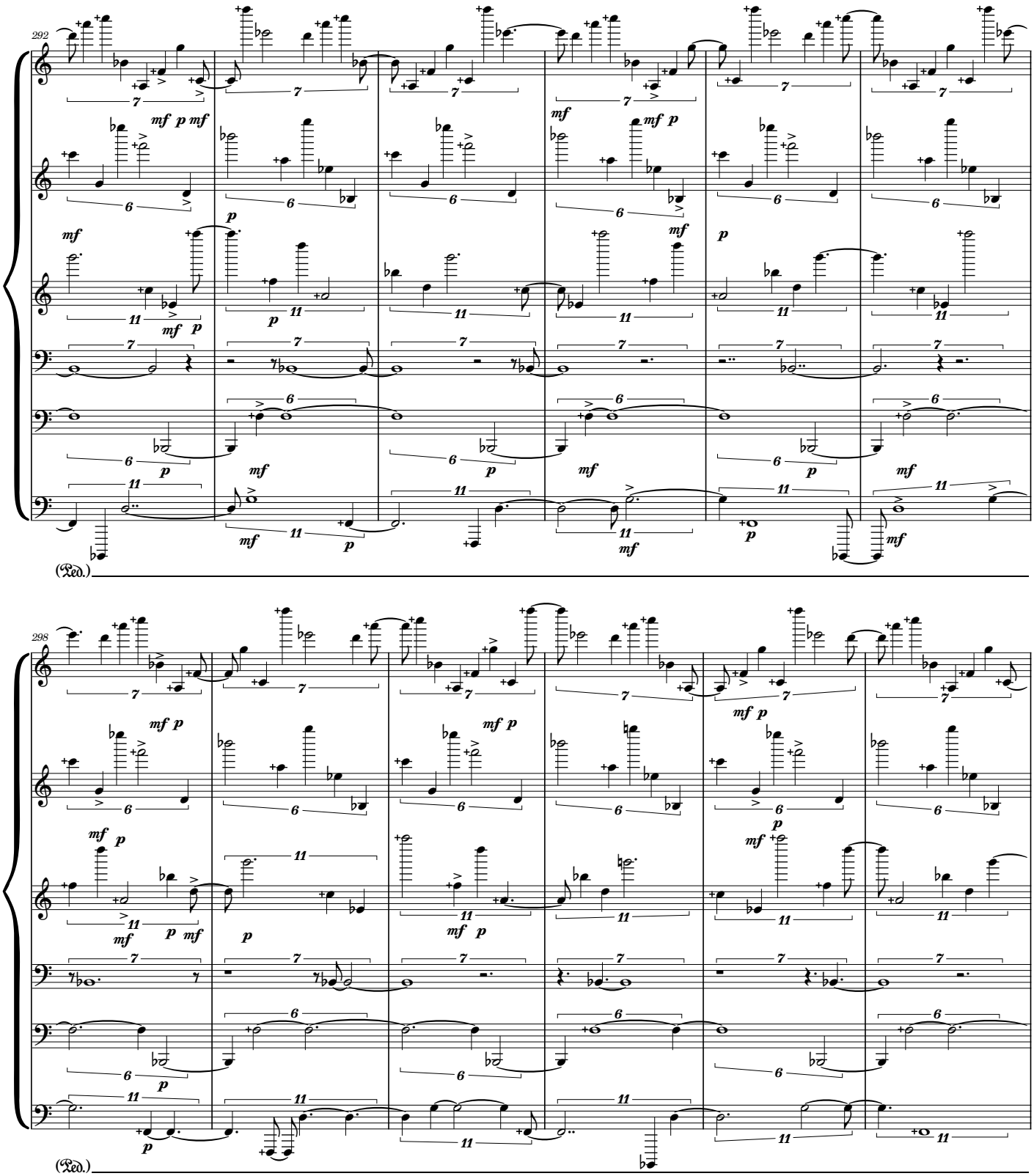

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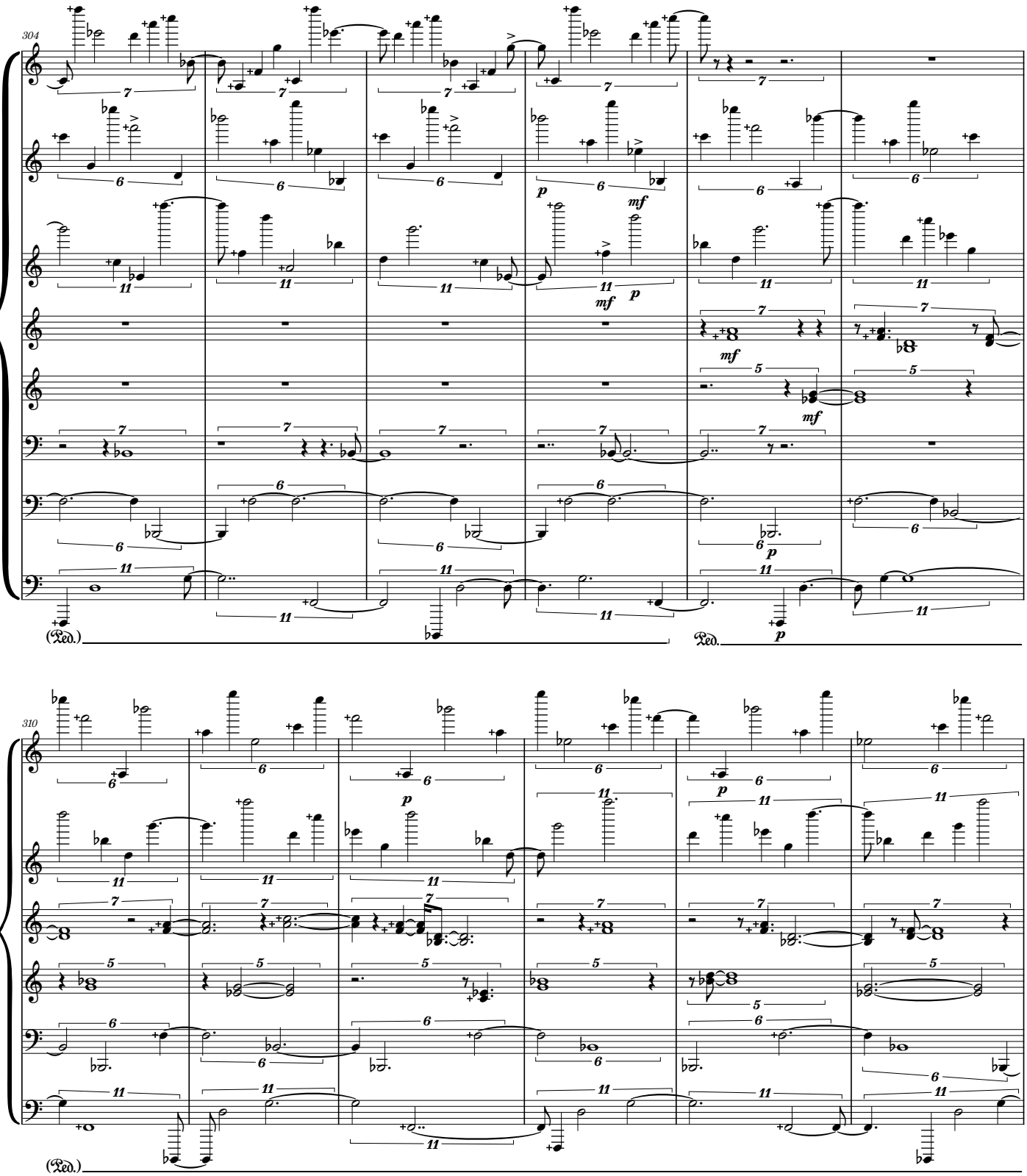

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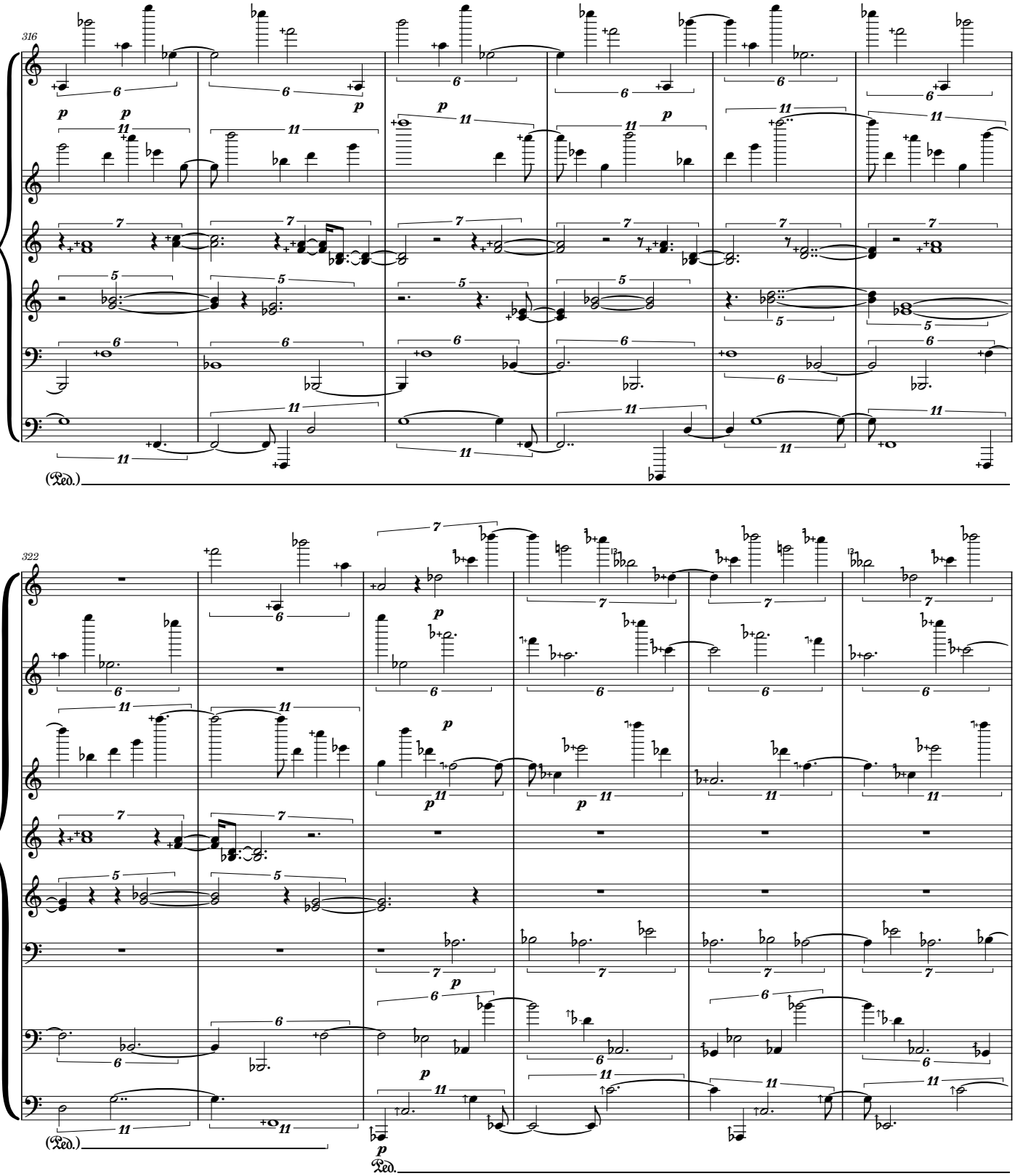

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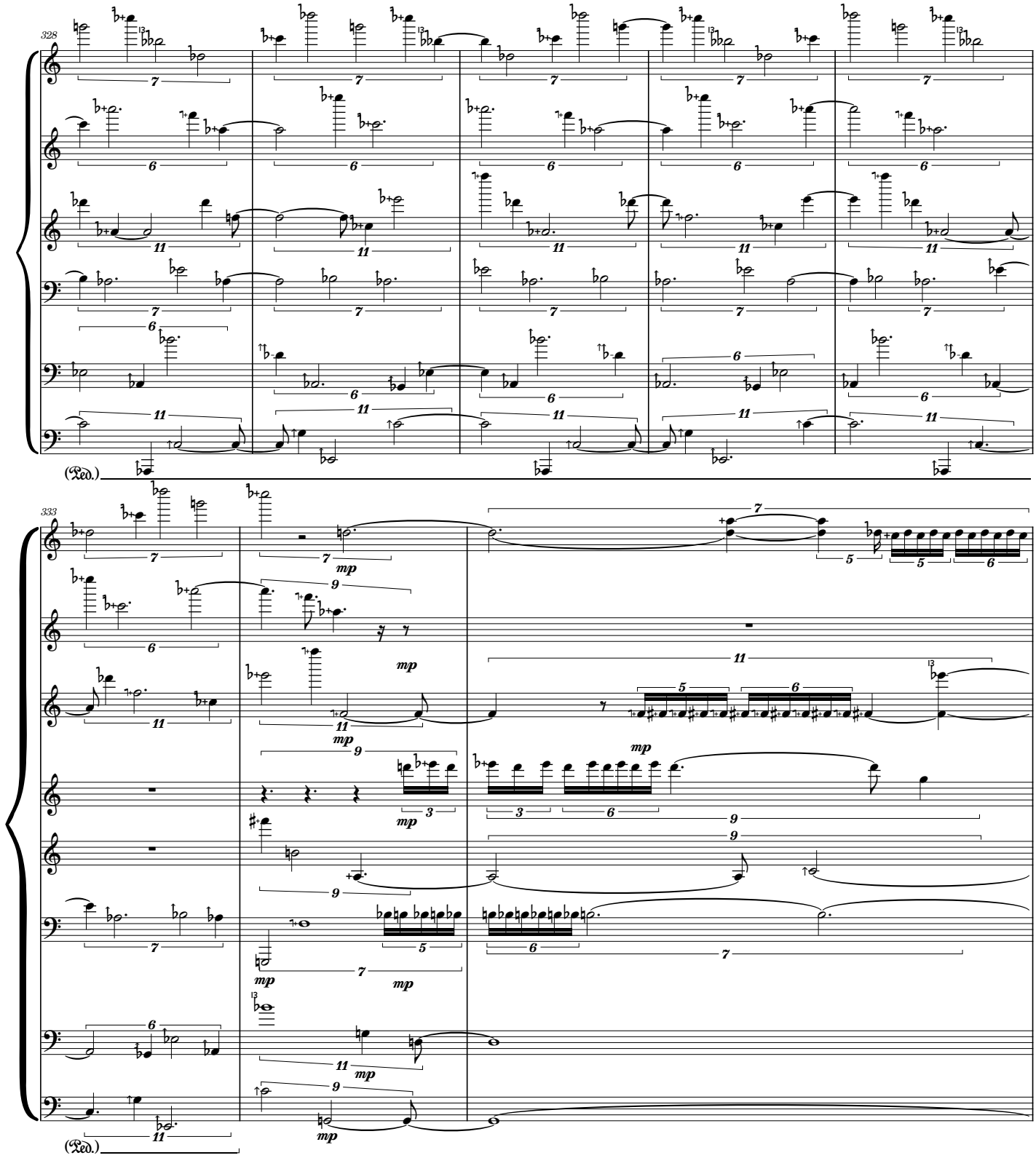

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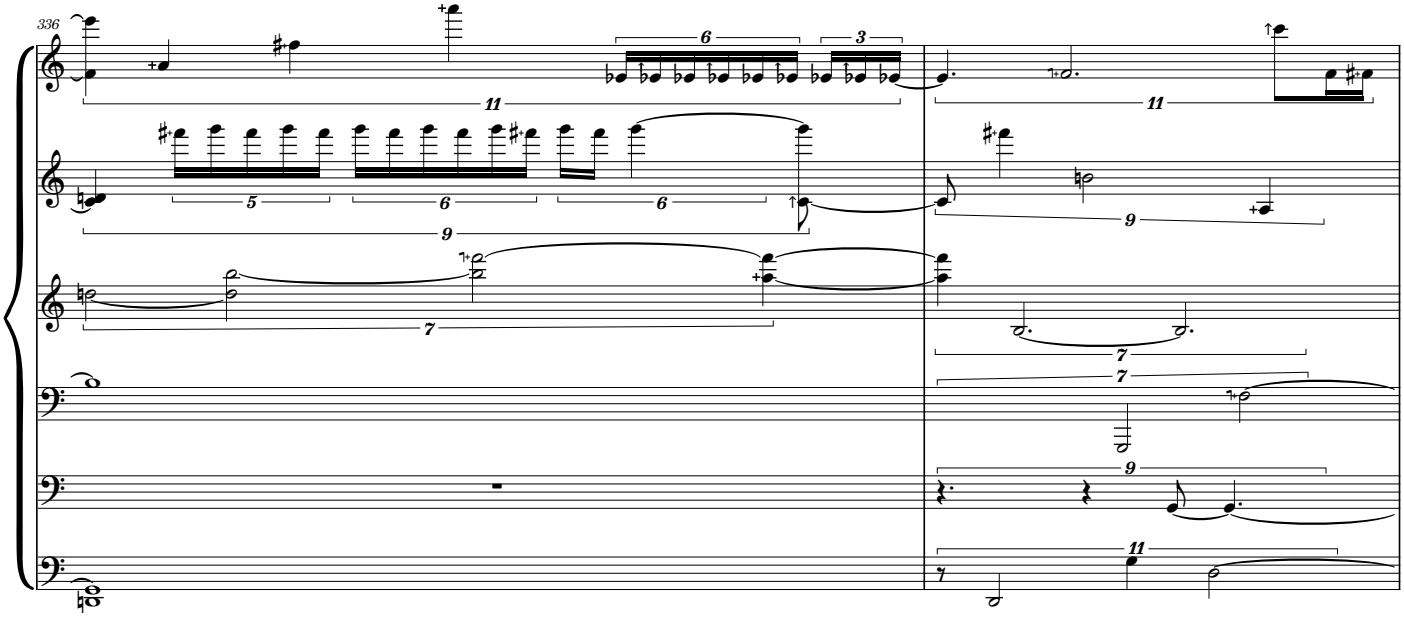

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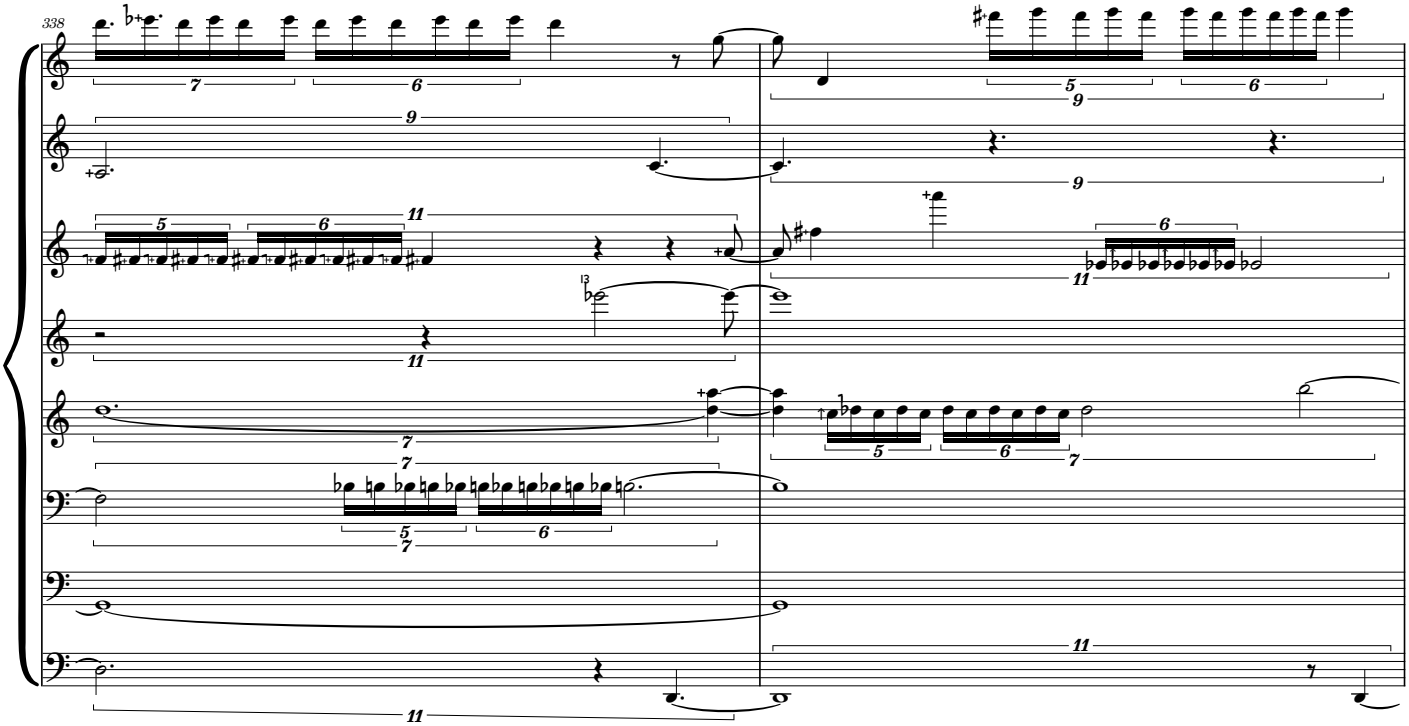

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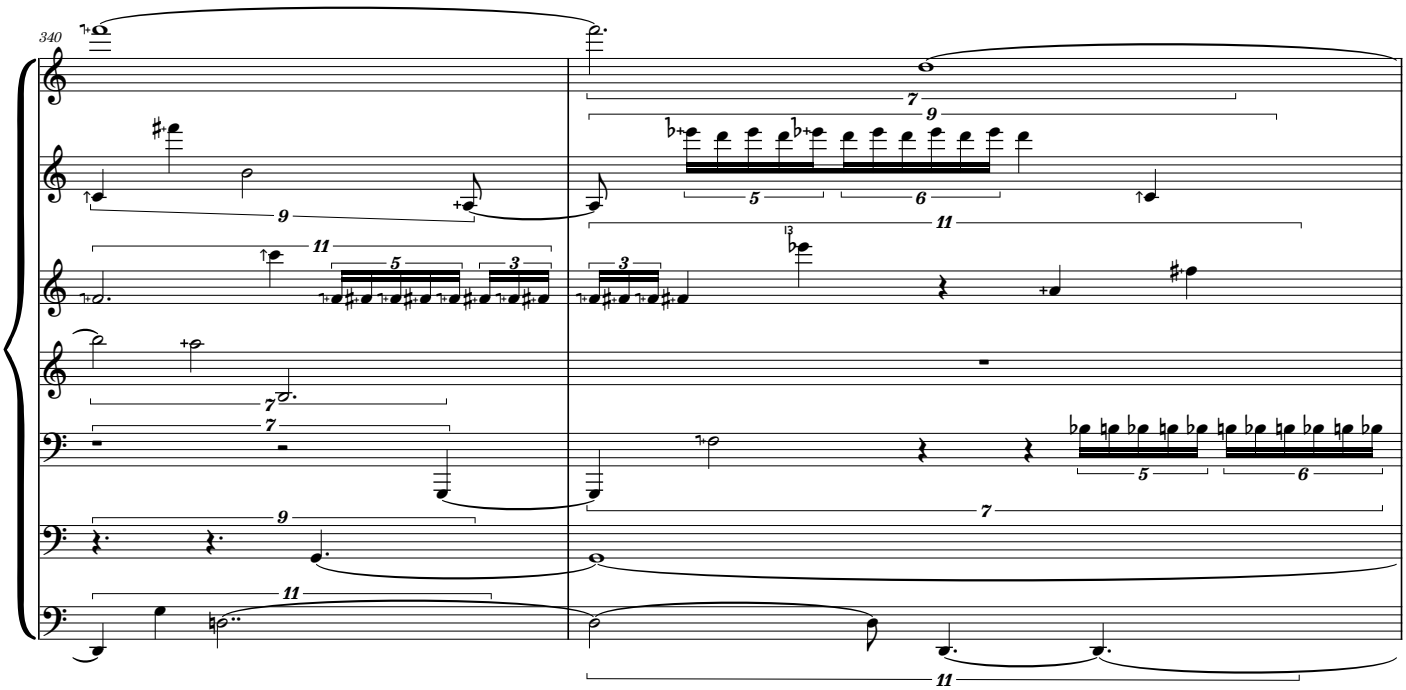

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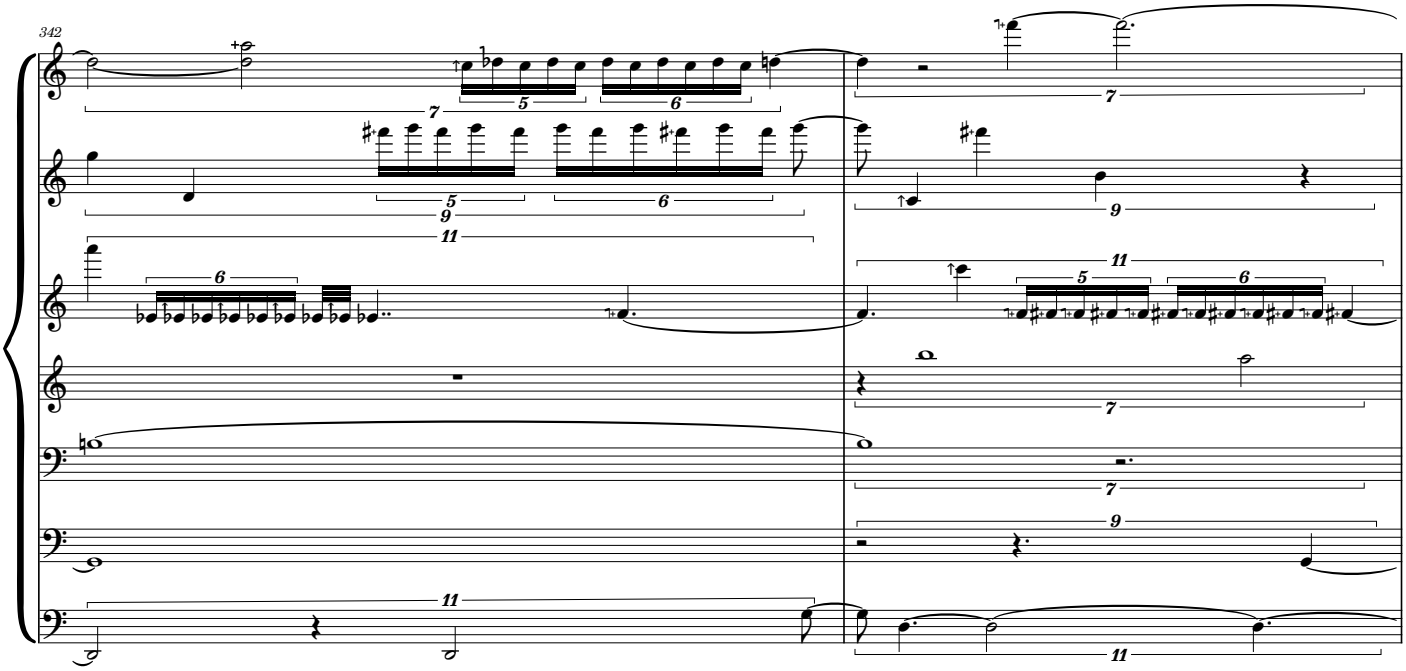

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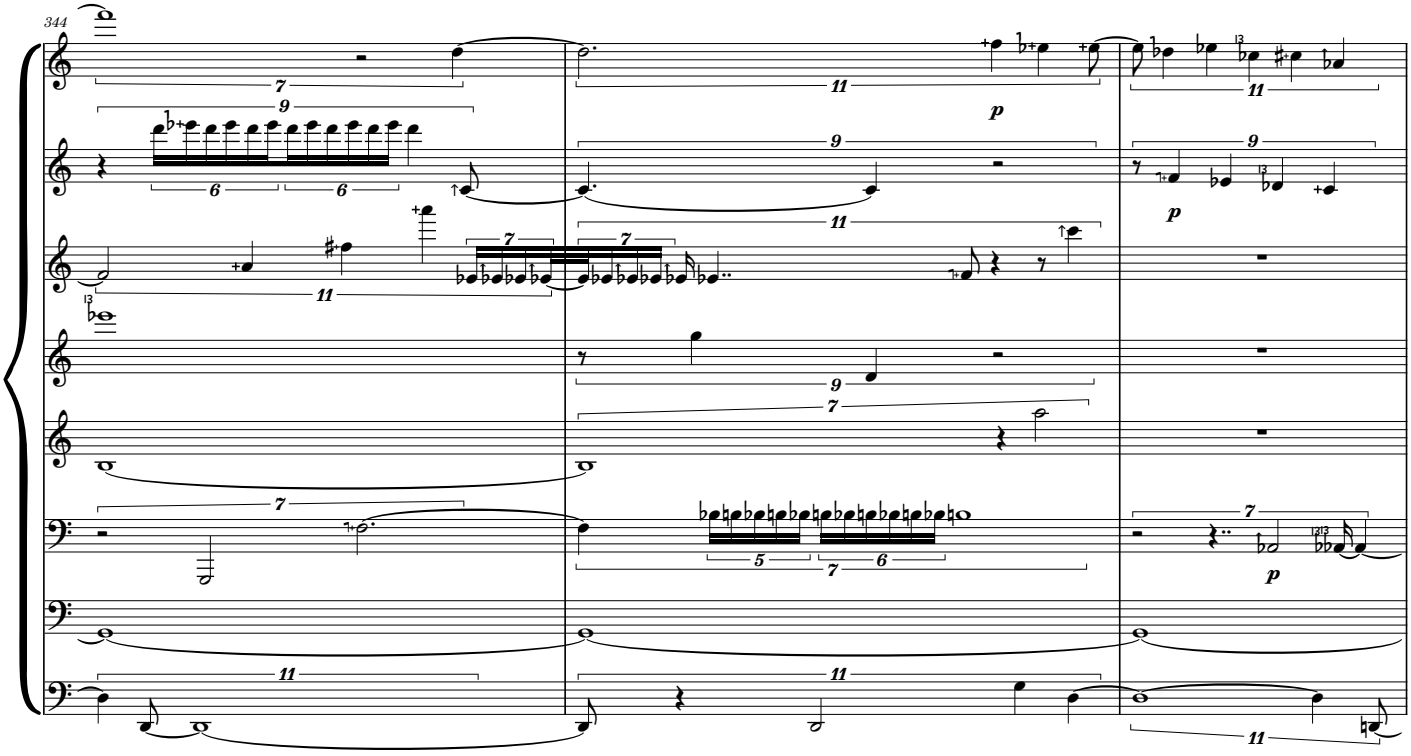

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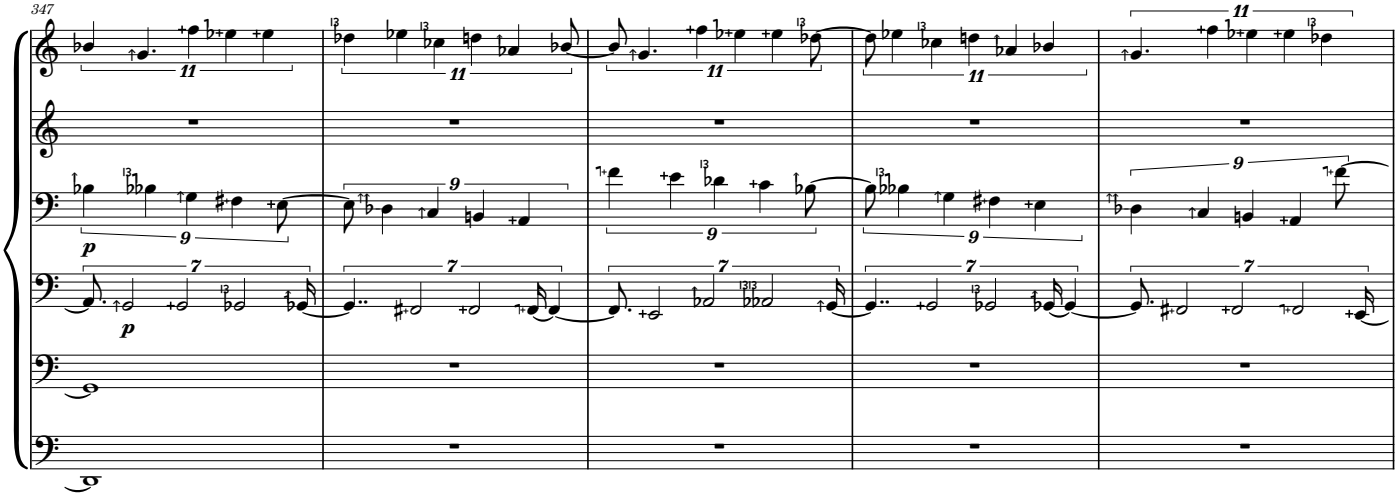

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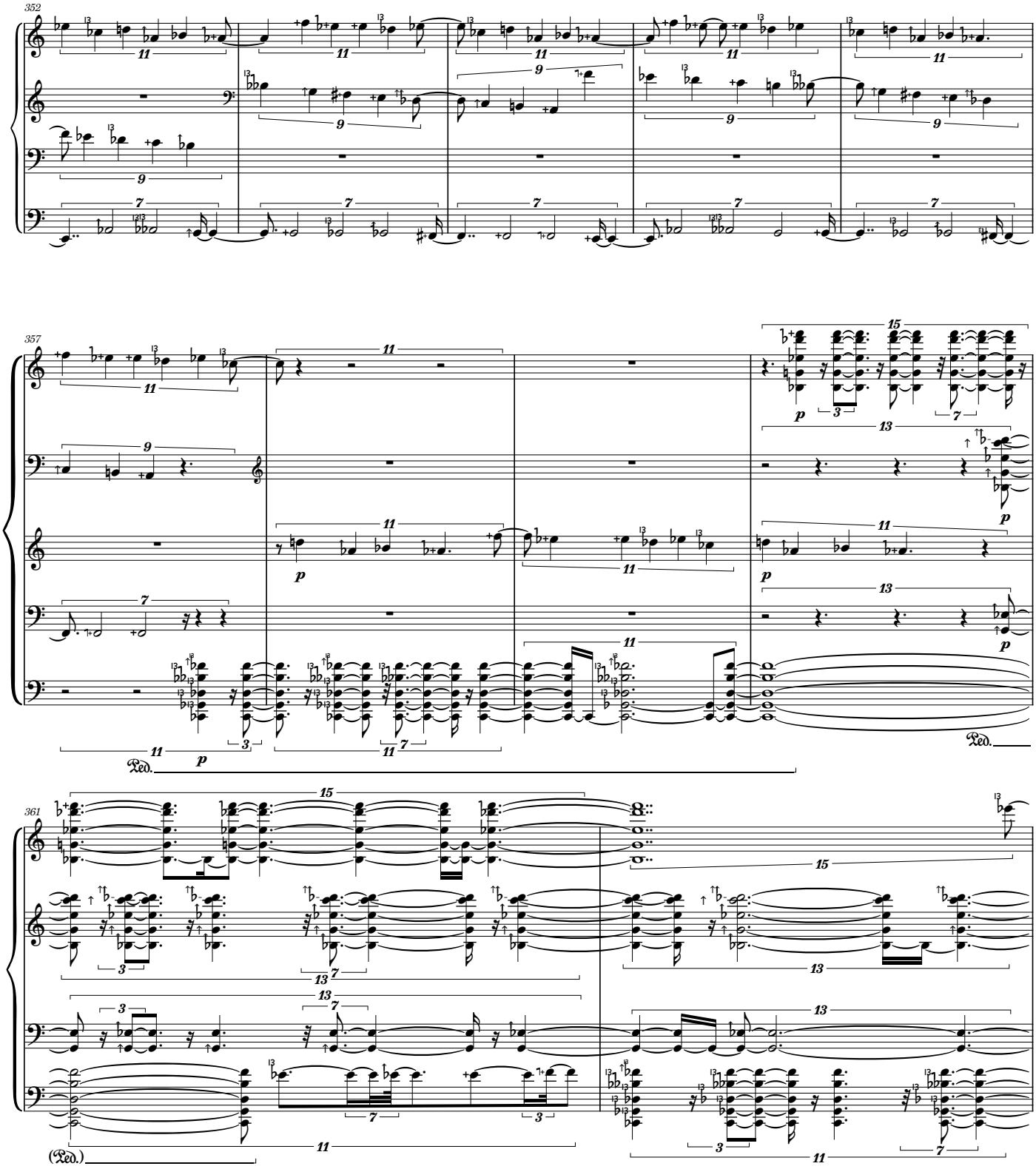

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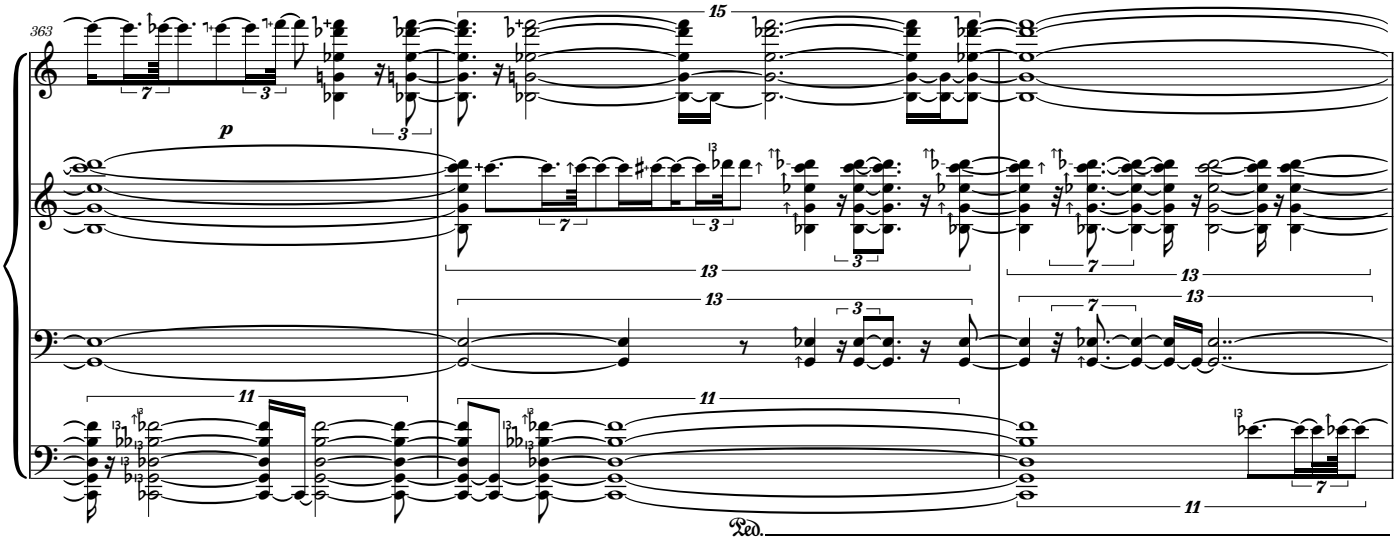

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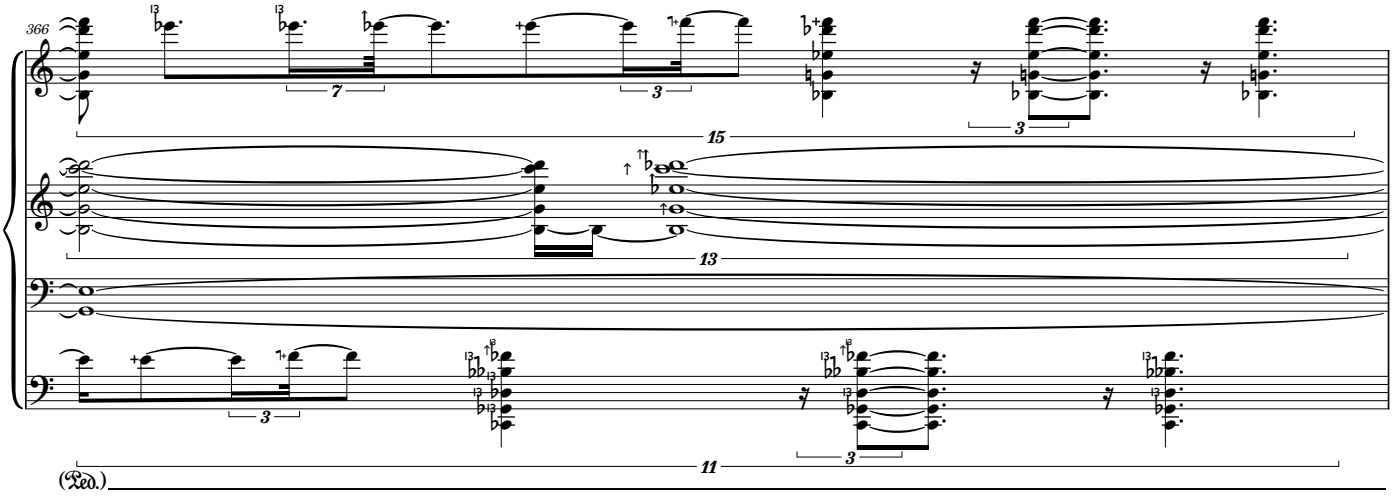

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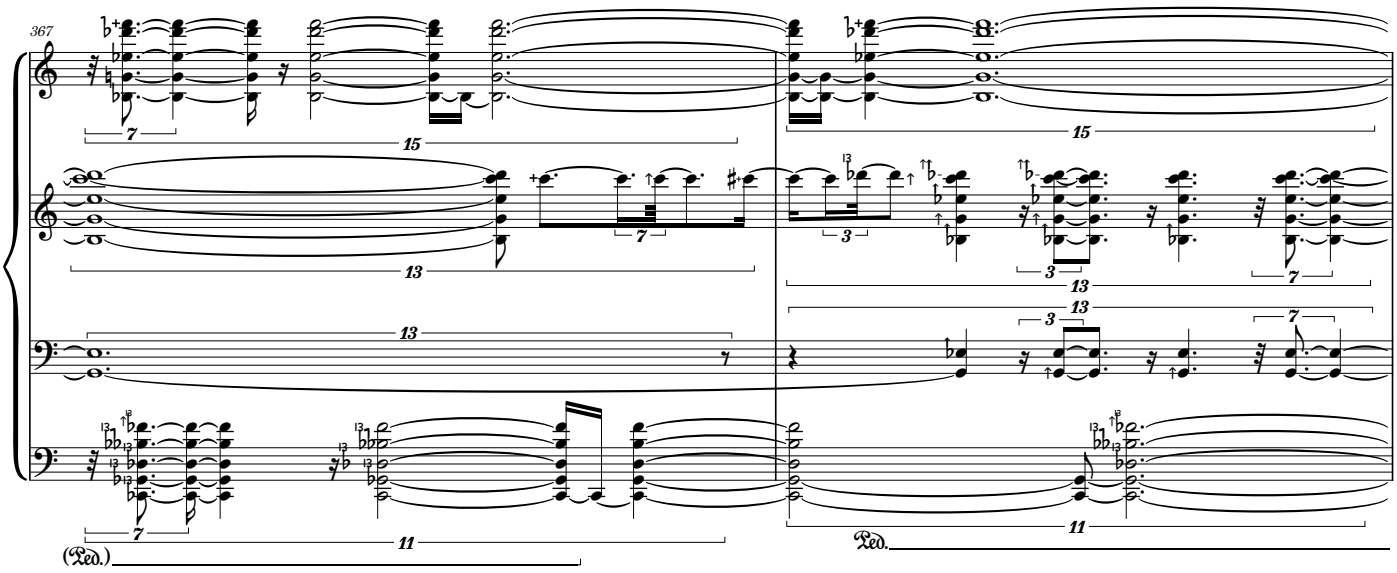

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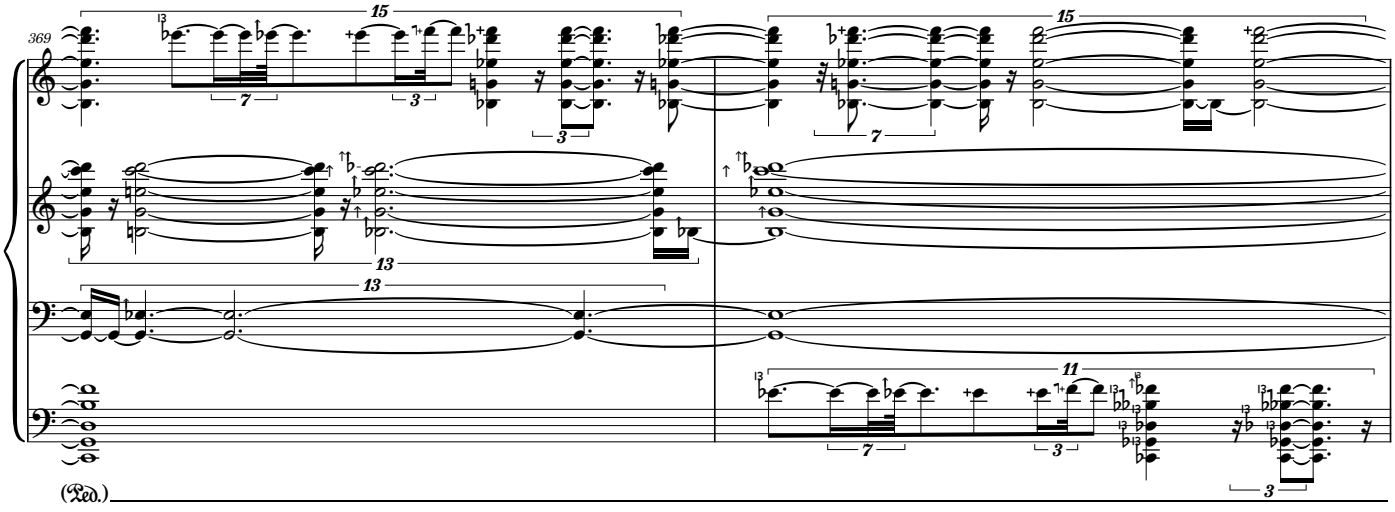

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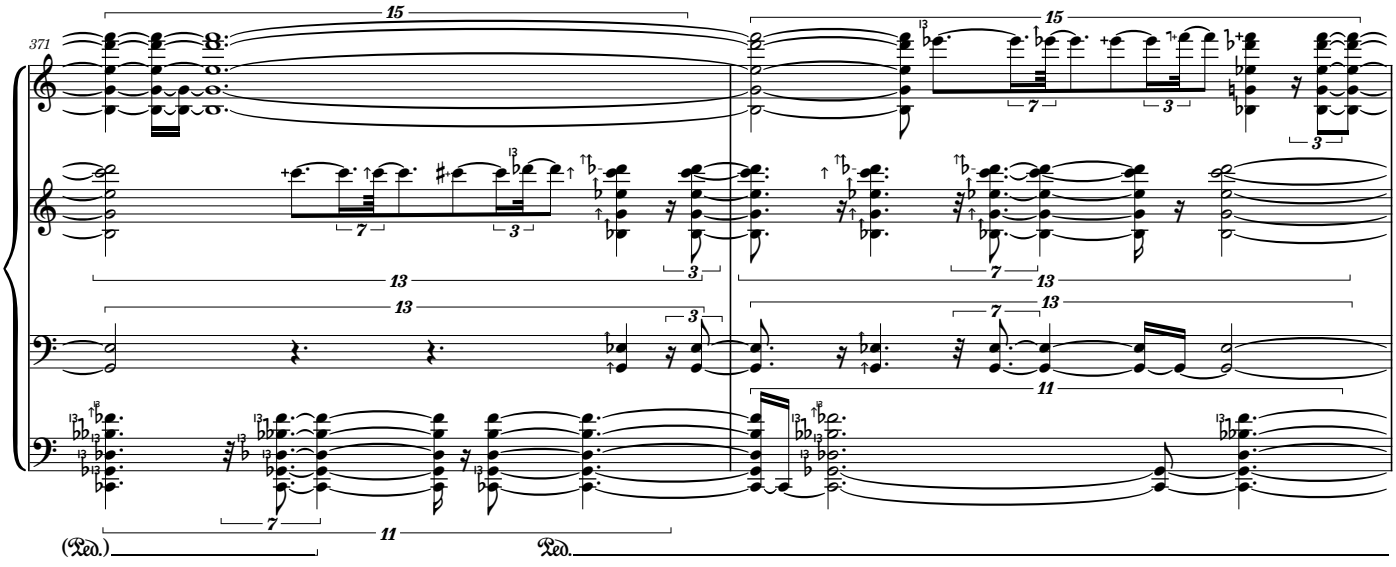

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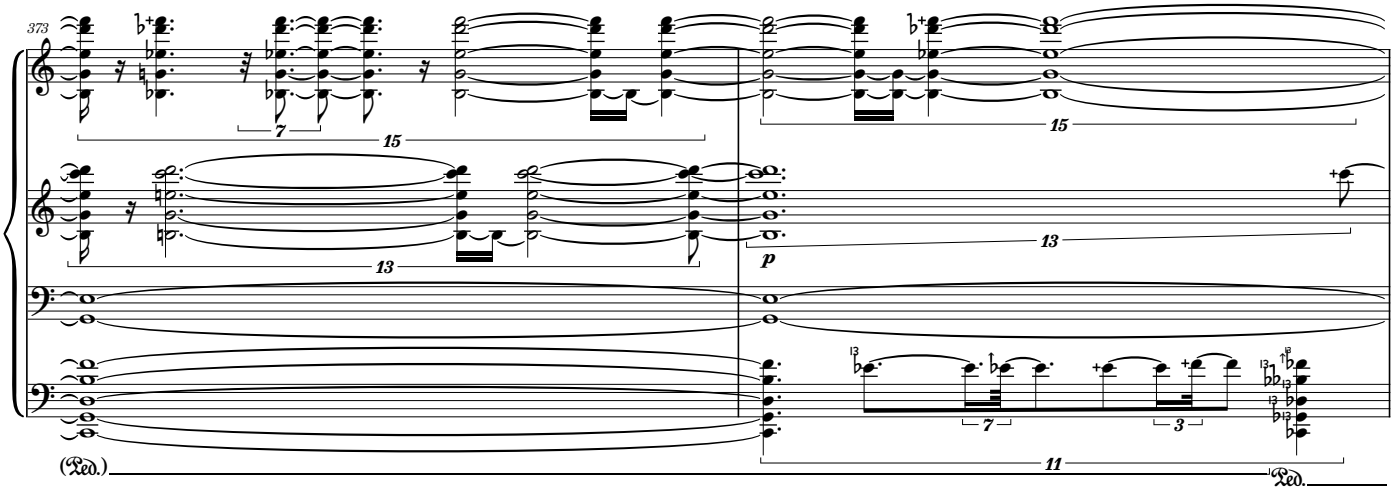

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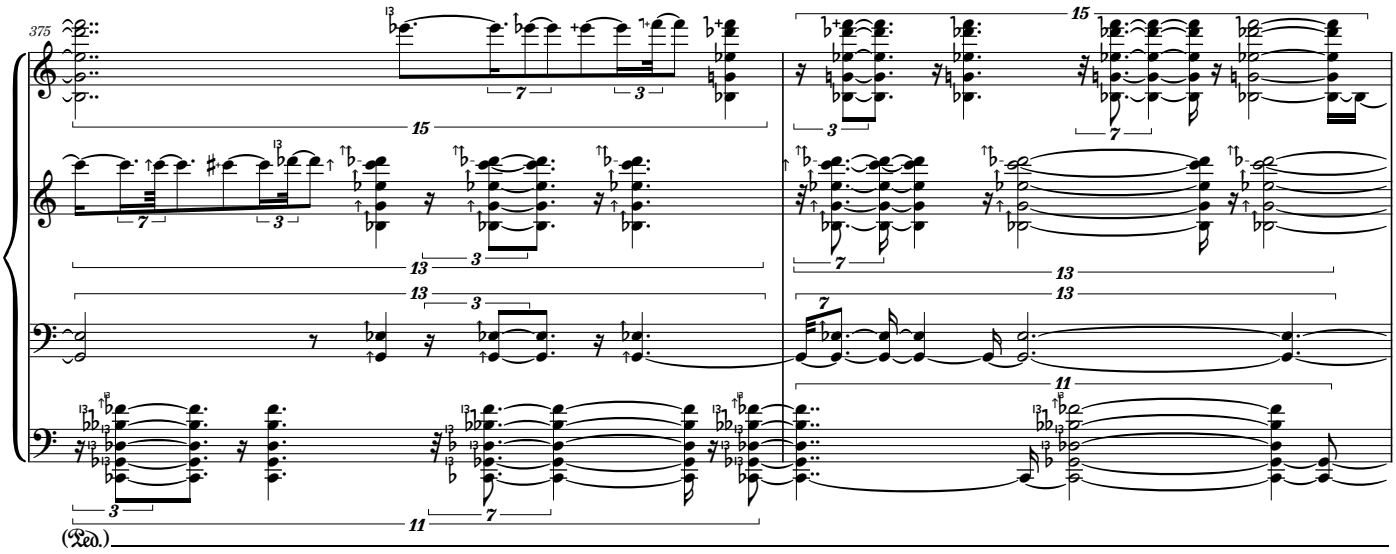

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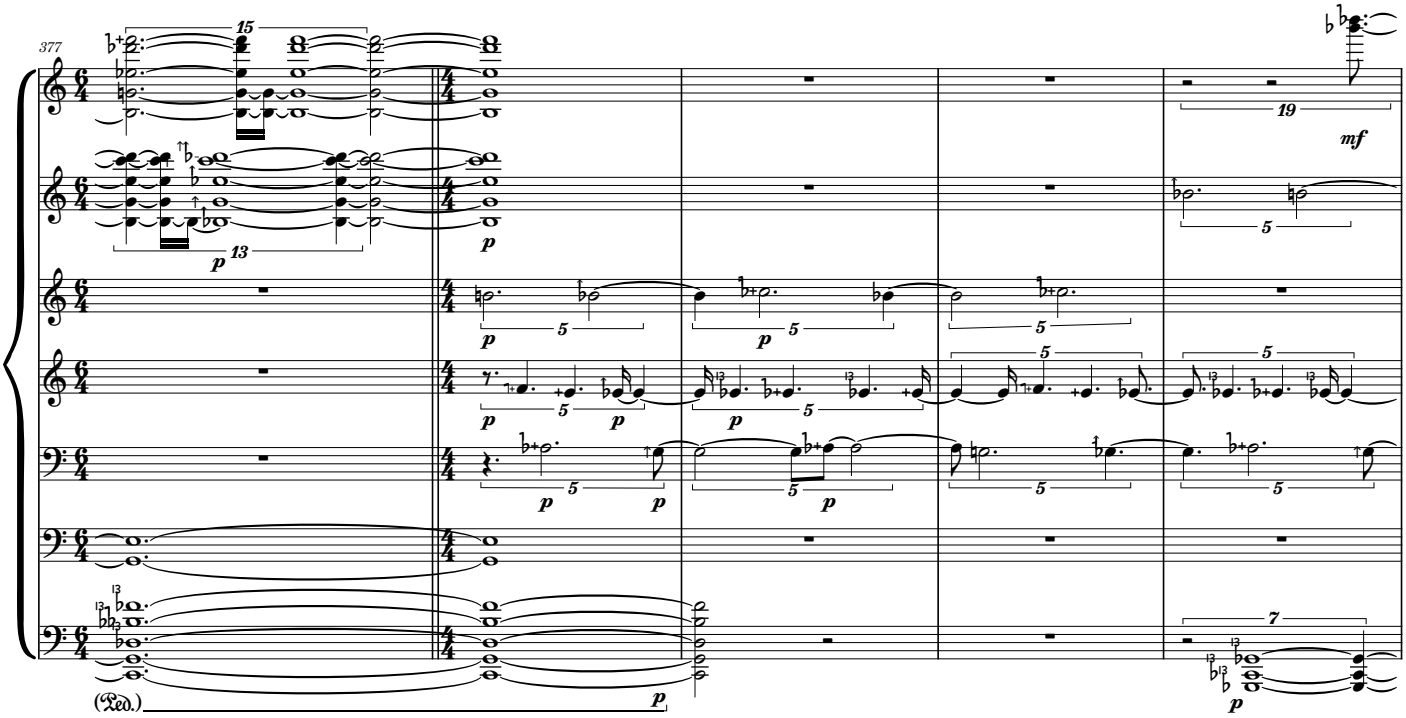

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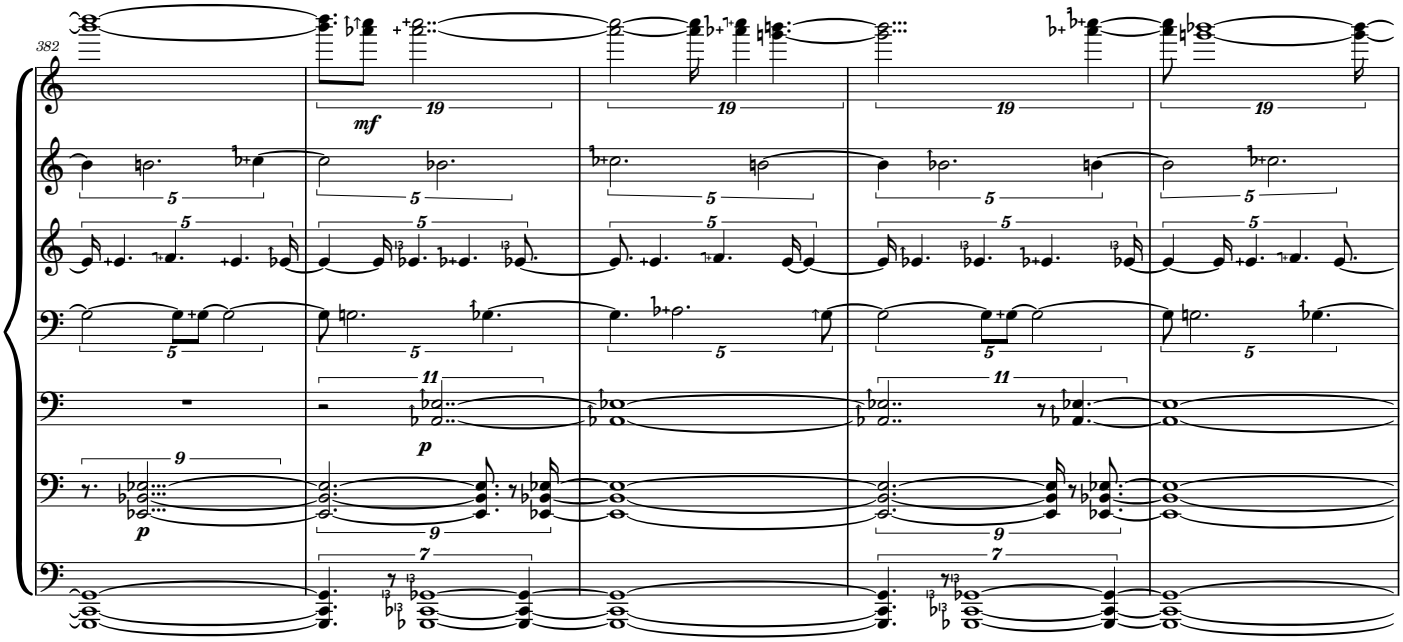

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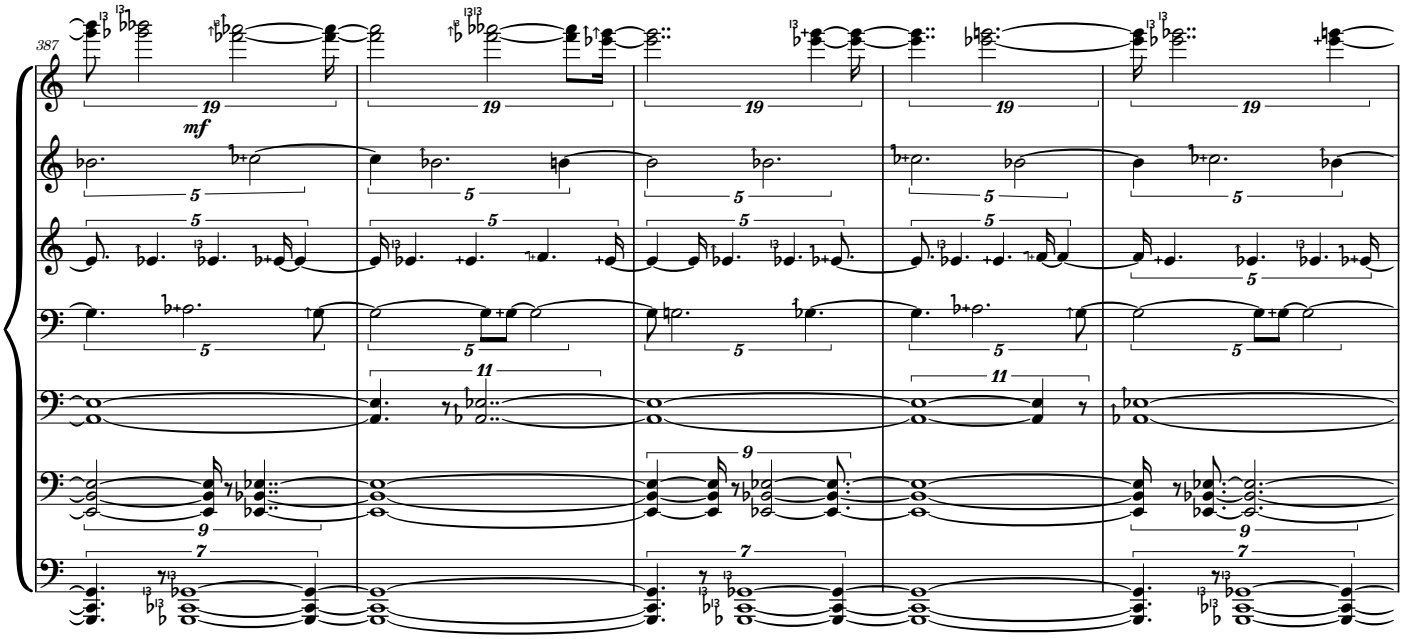

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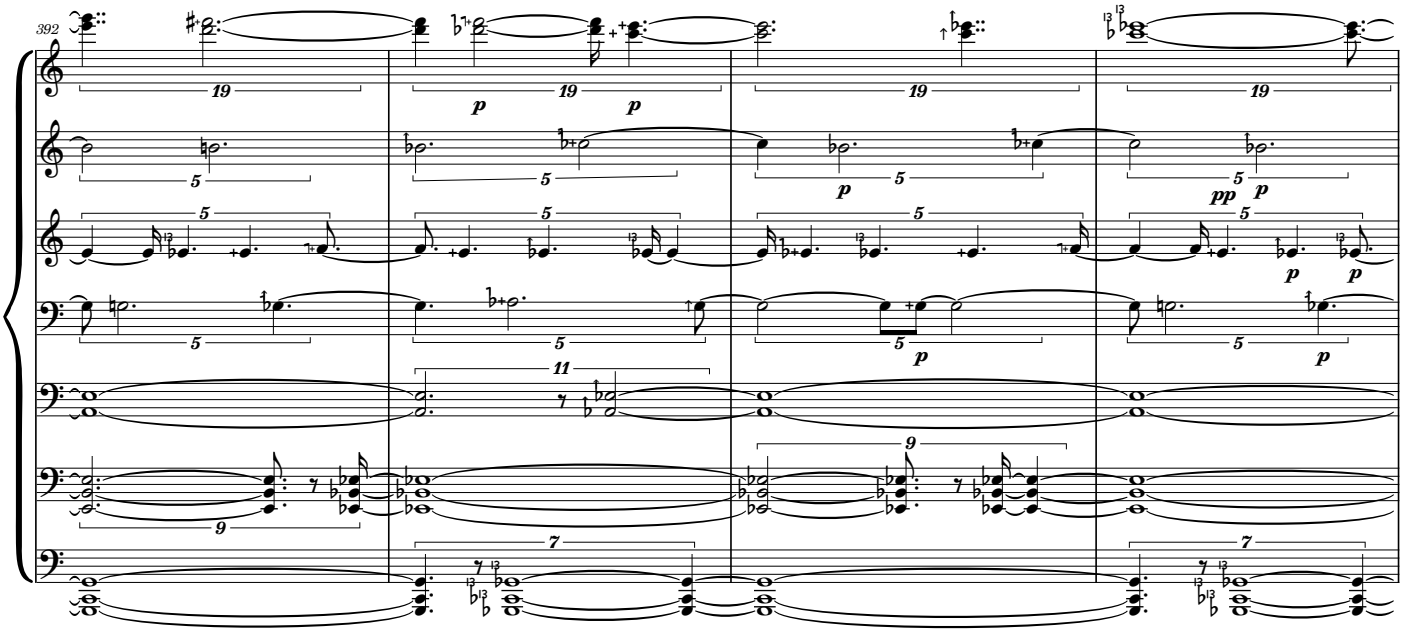

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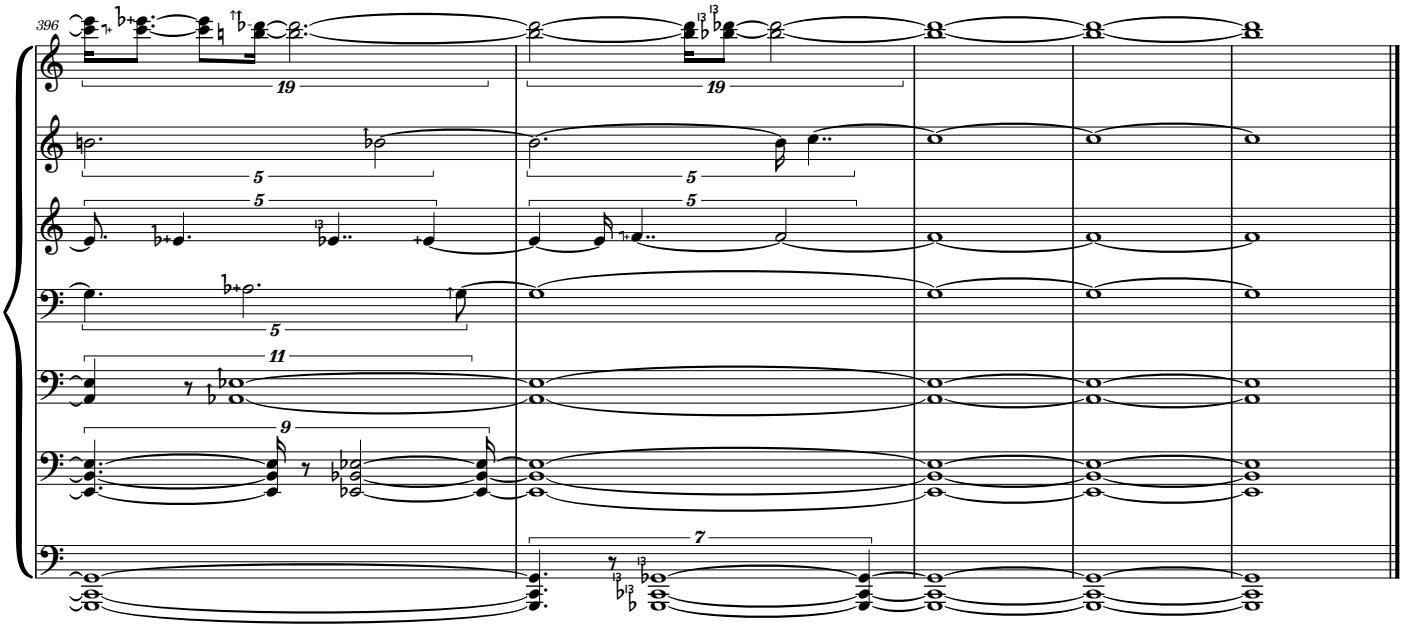

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387
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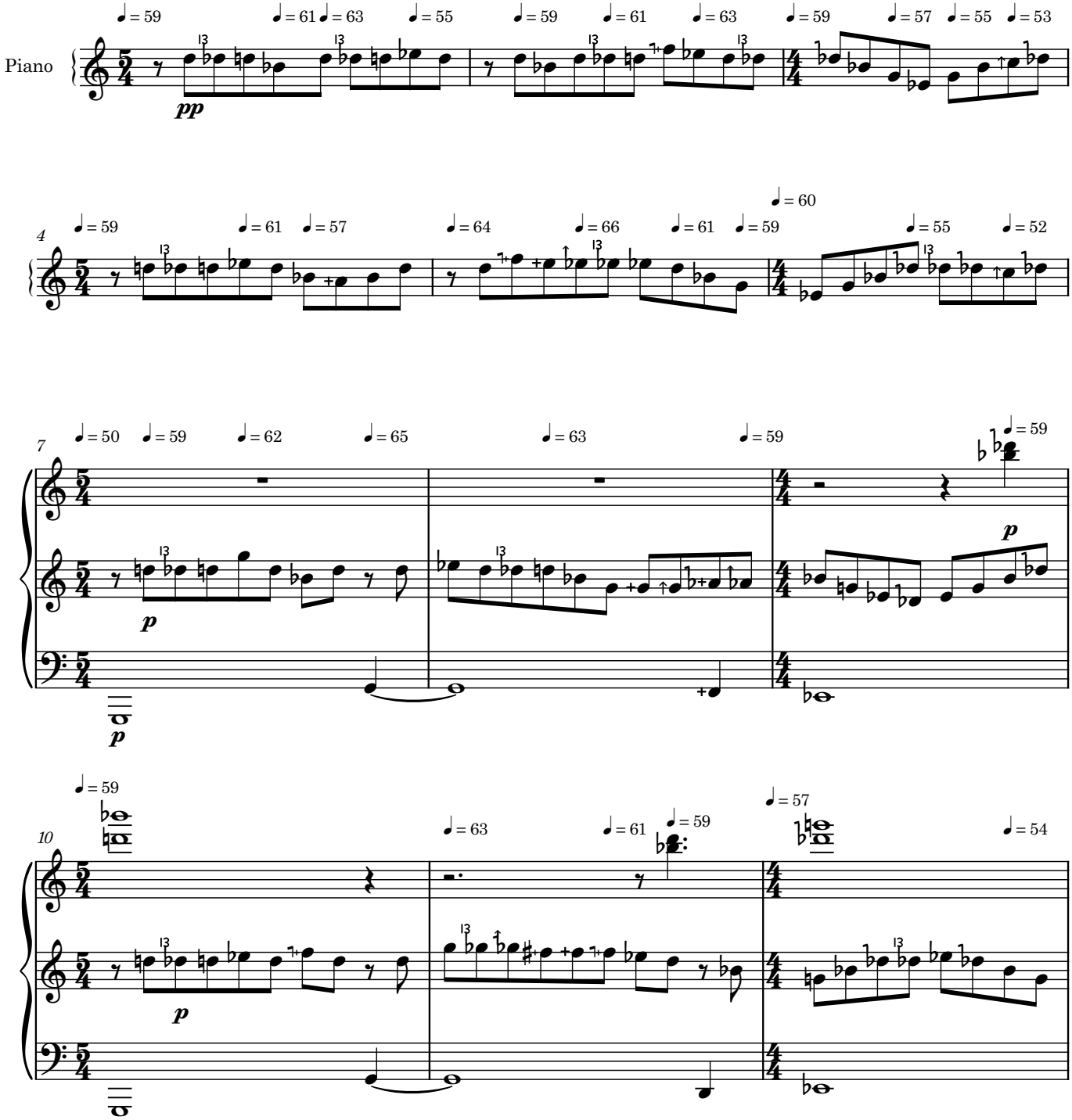


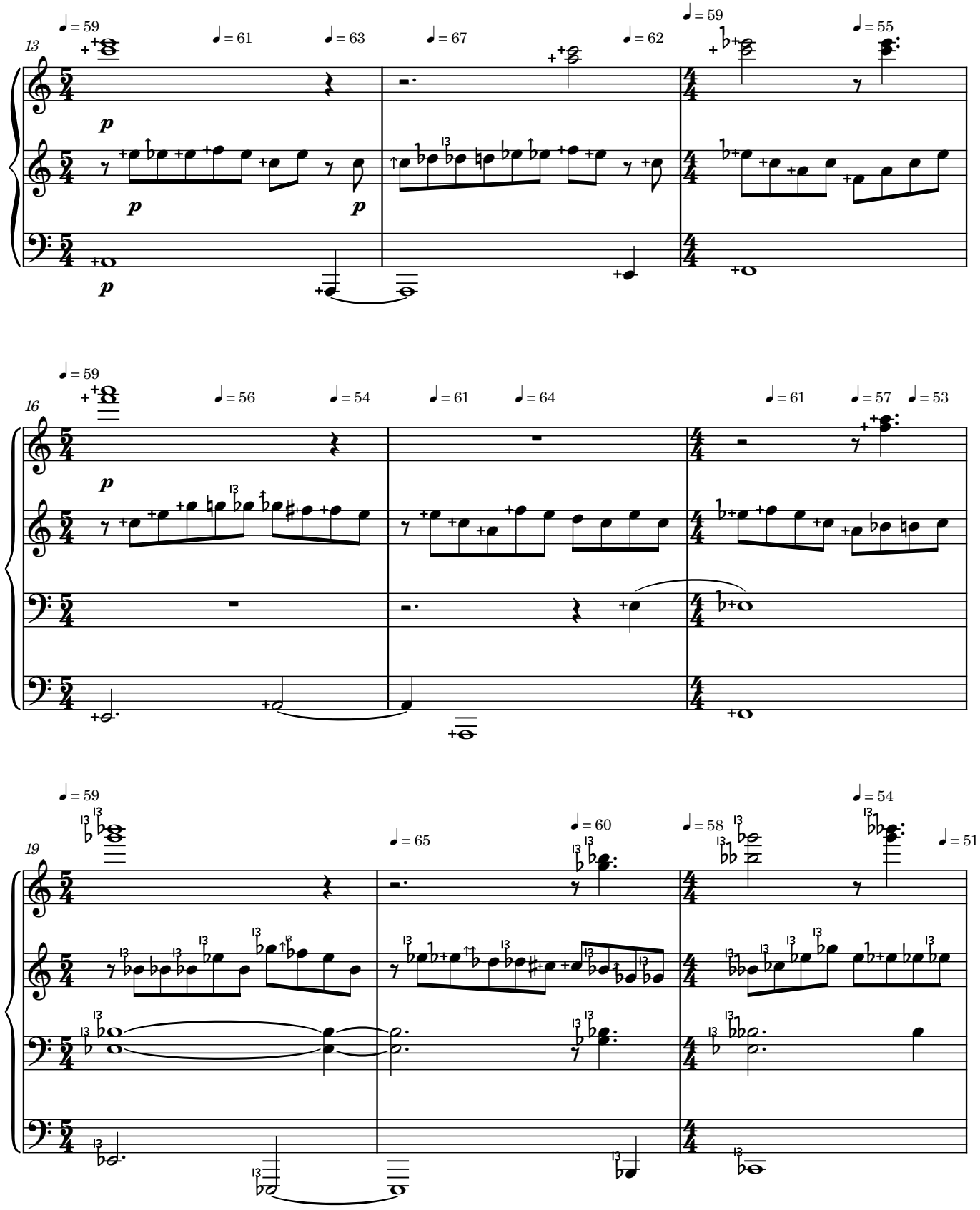


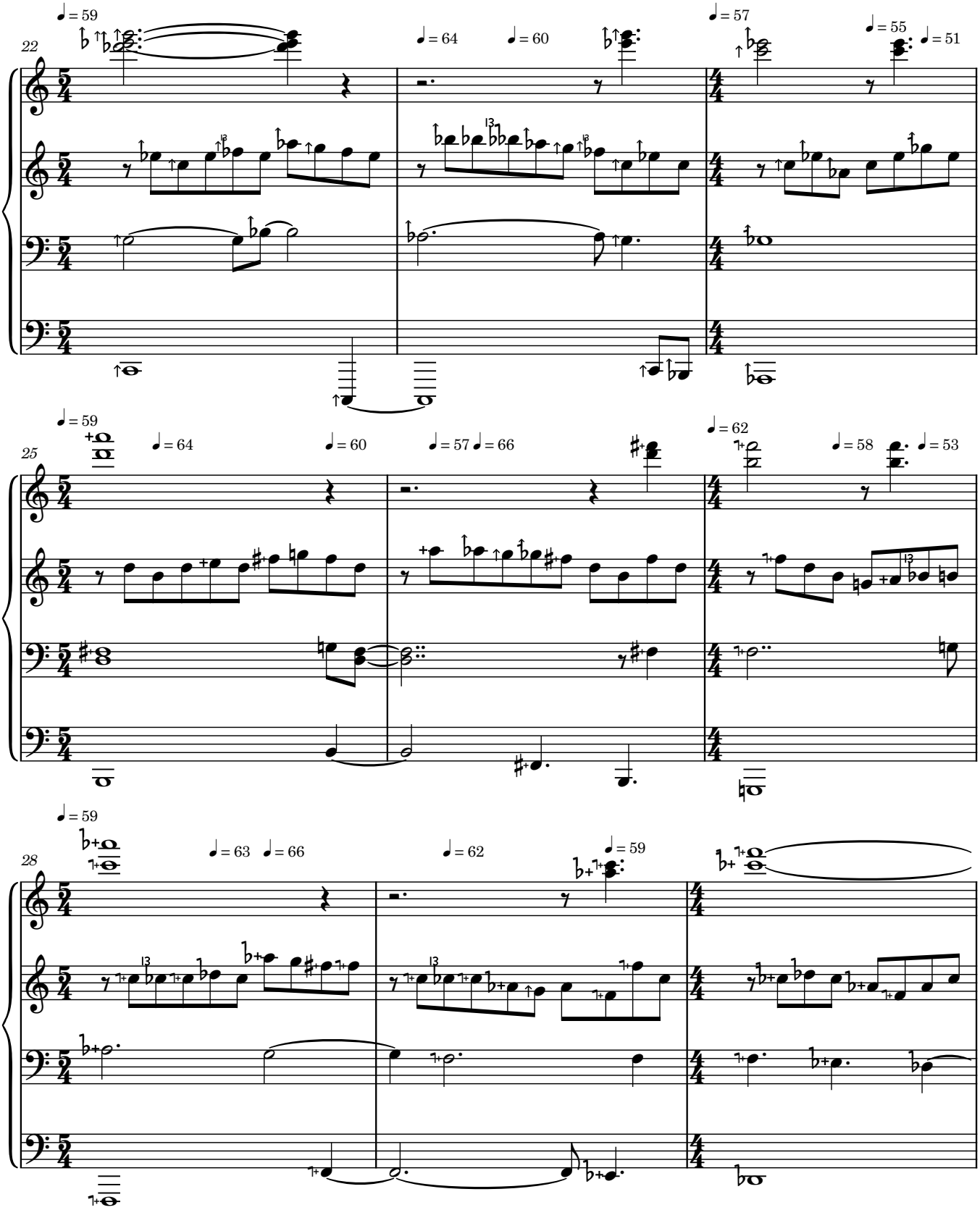
March 30 - July 14, 2021
Germantown, NY
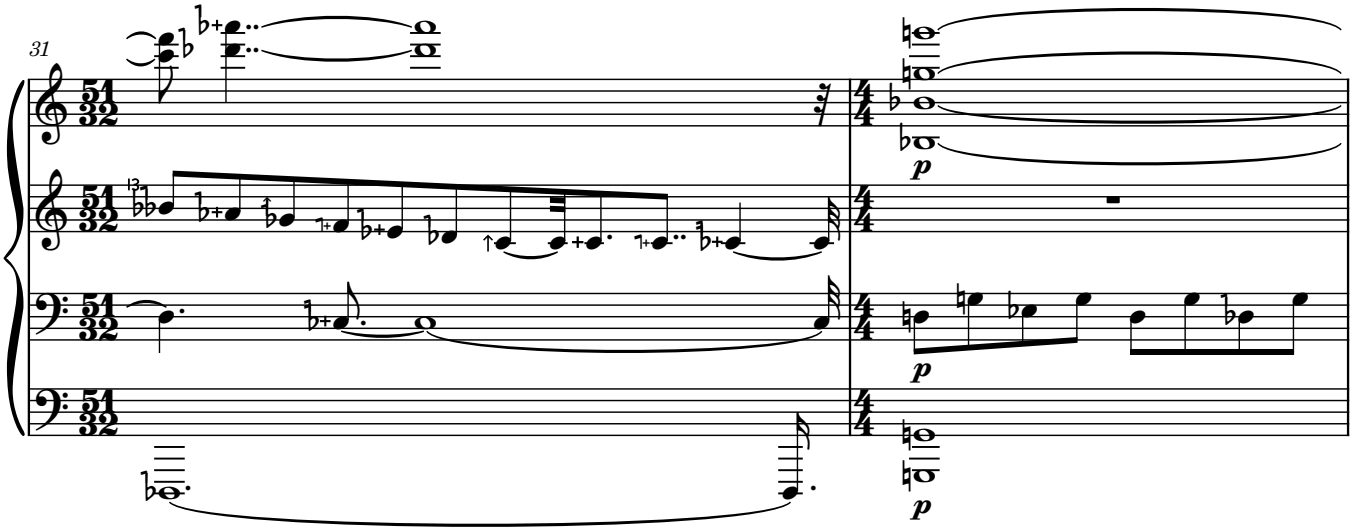
2.7 Kelvin

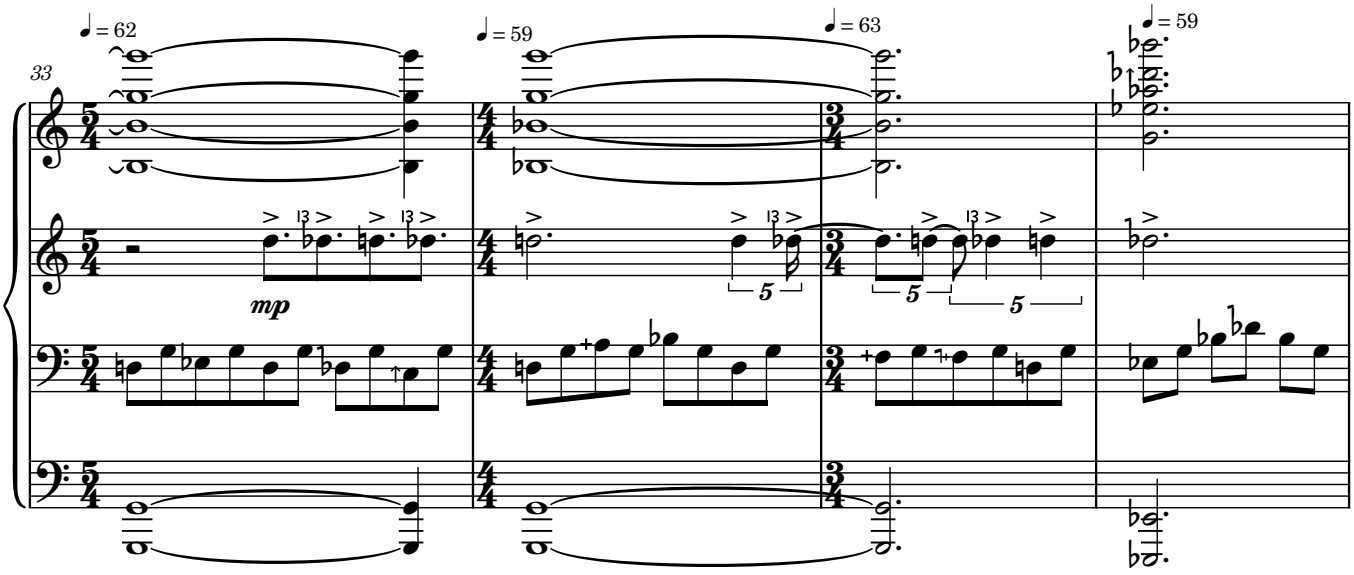
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2020
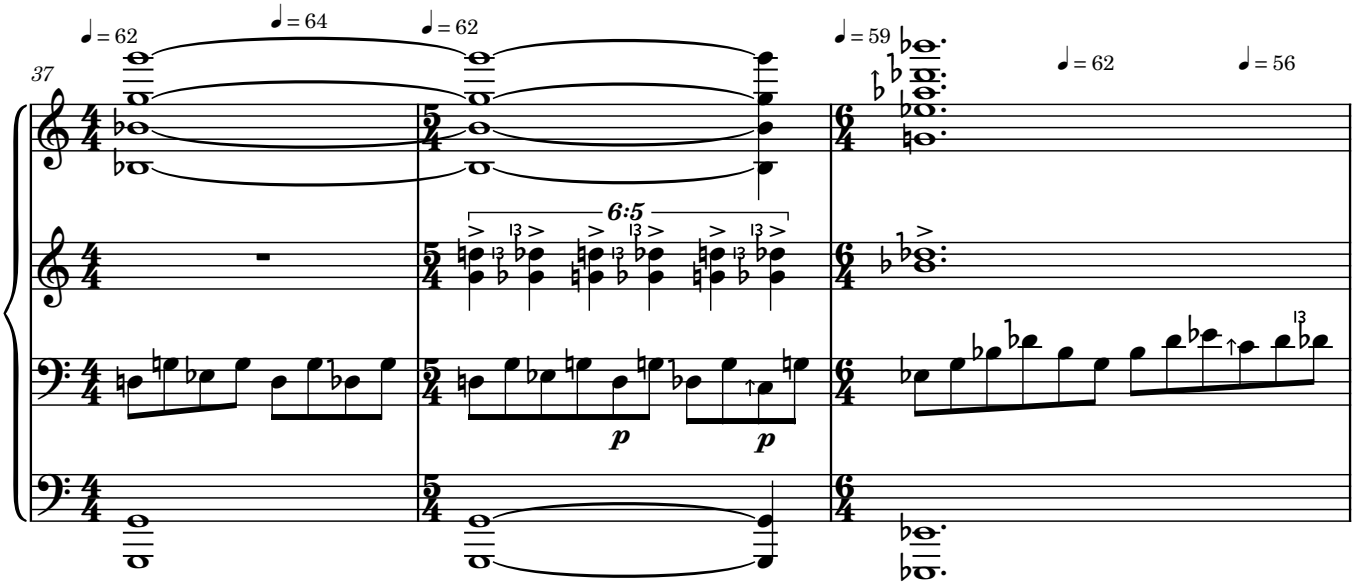


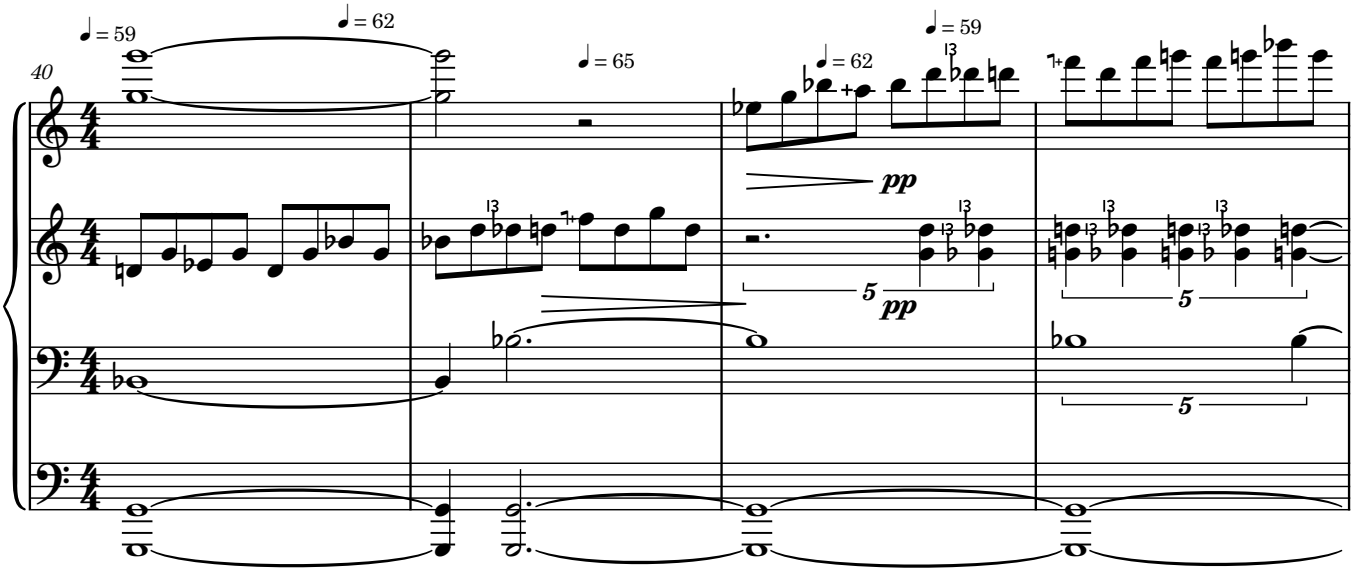

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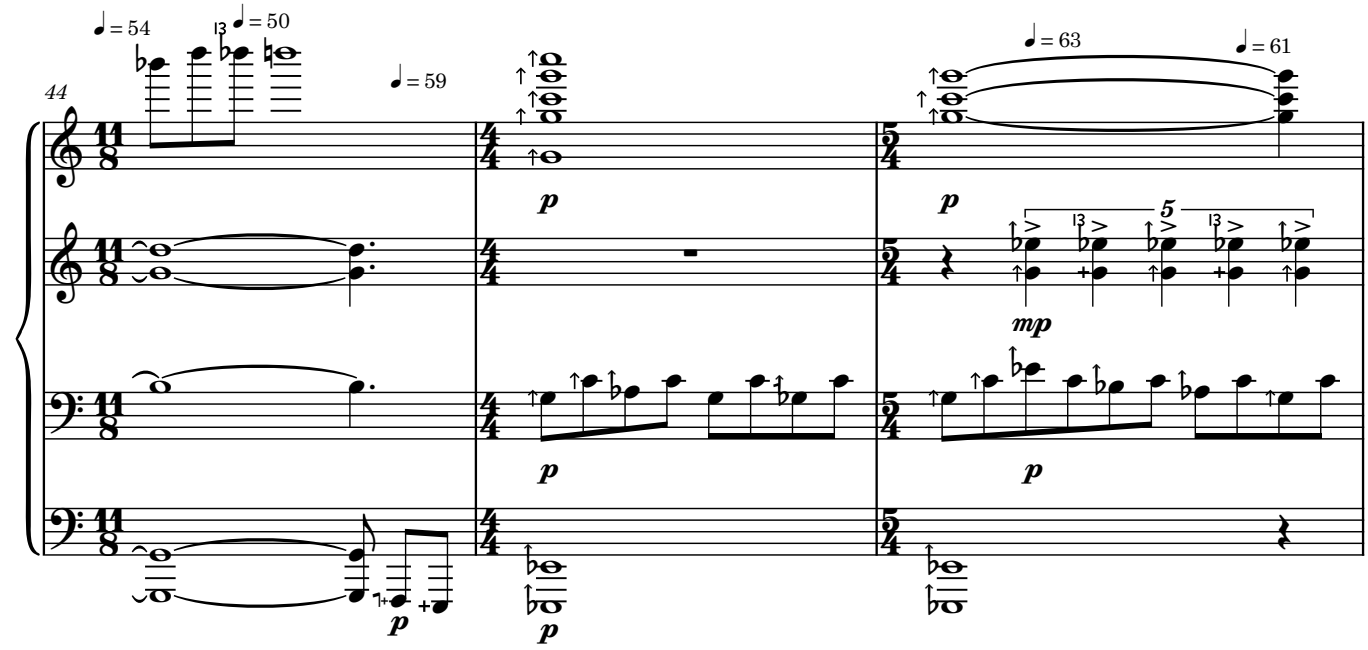

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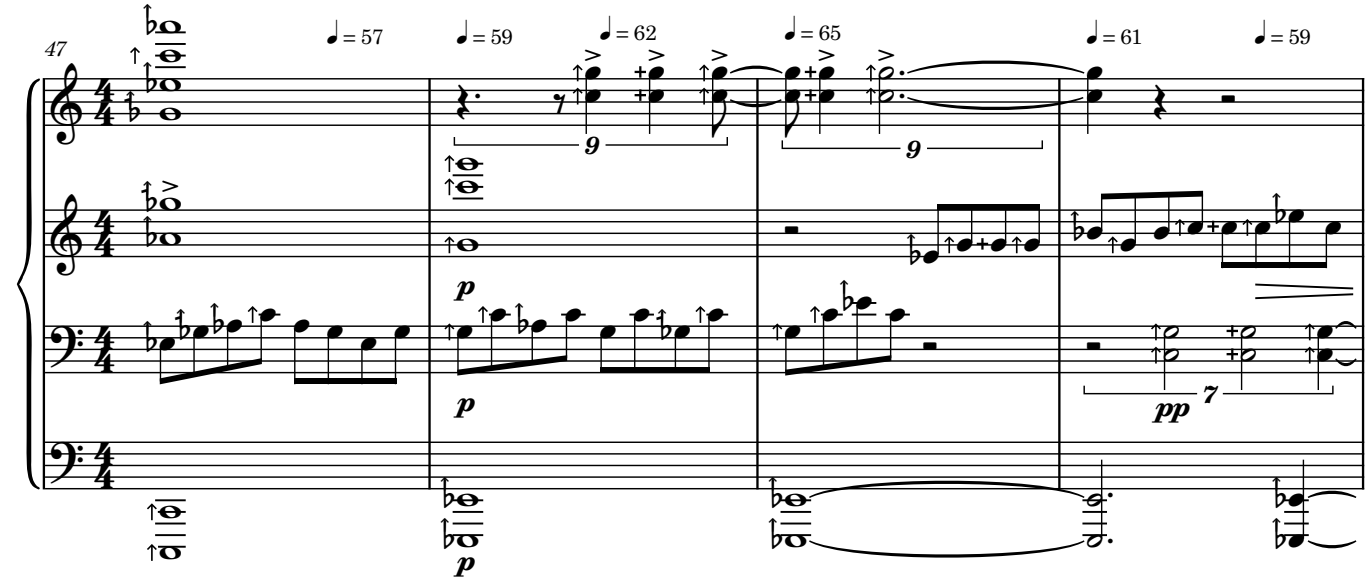

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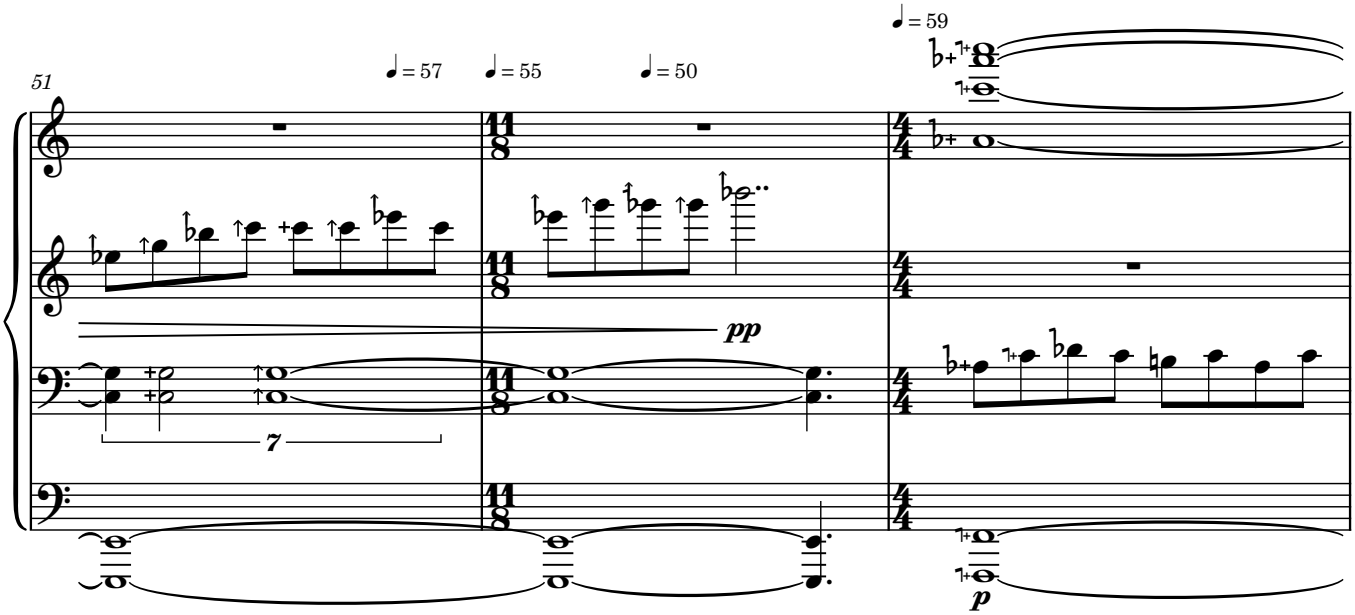

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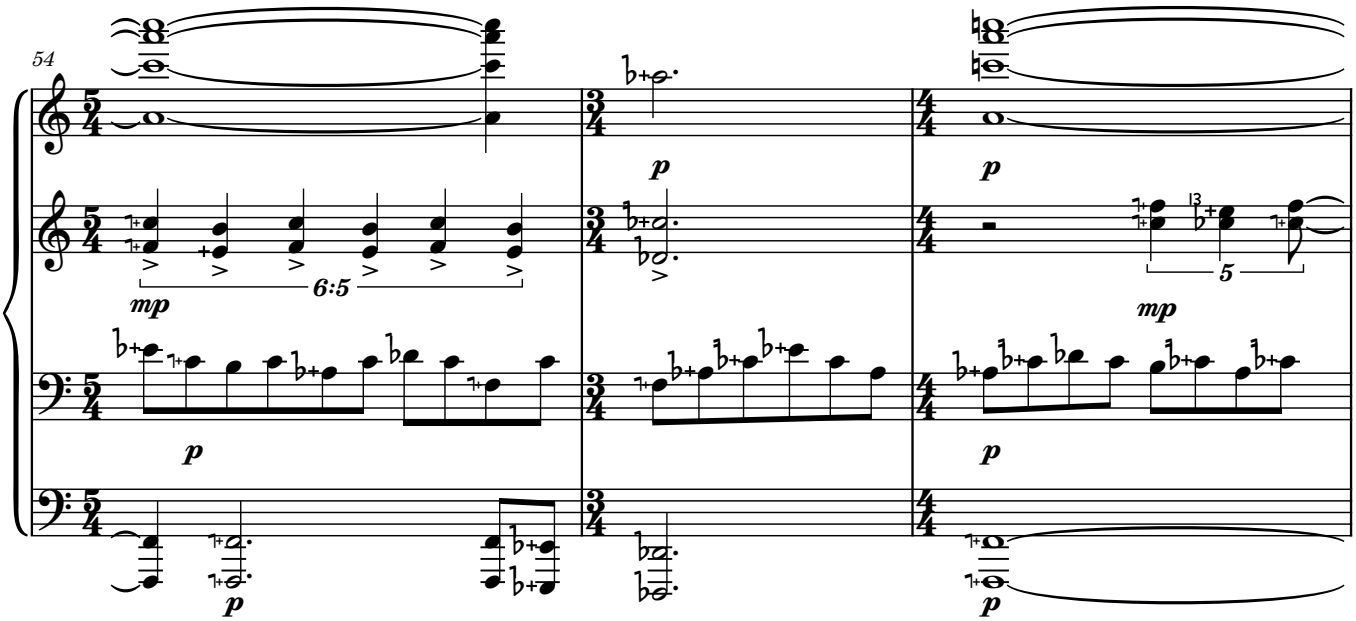

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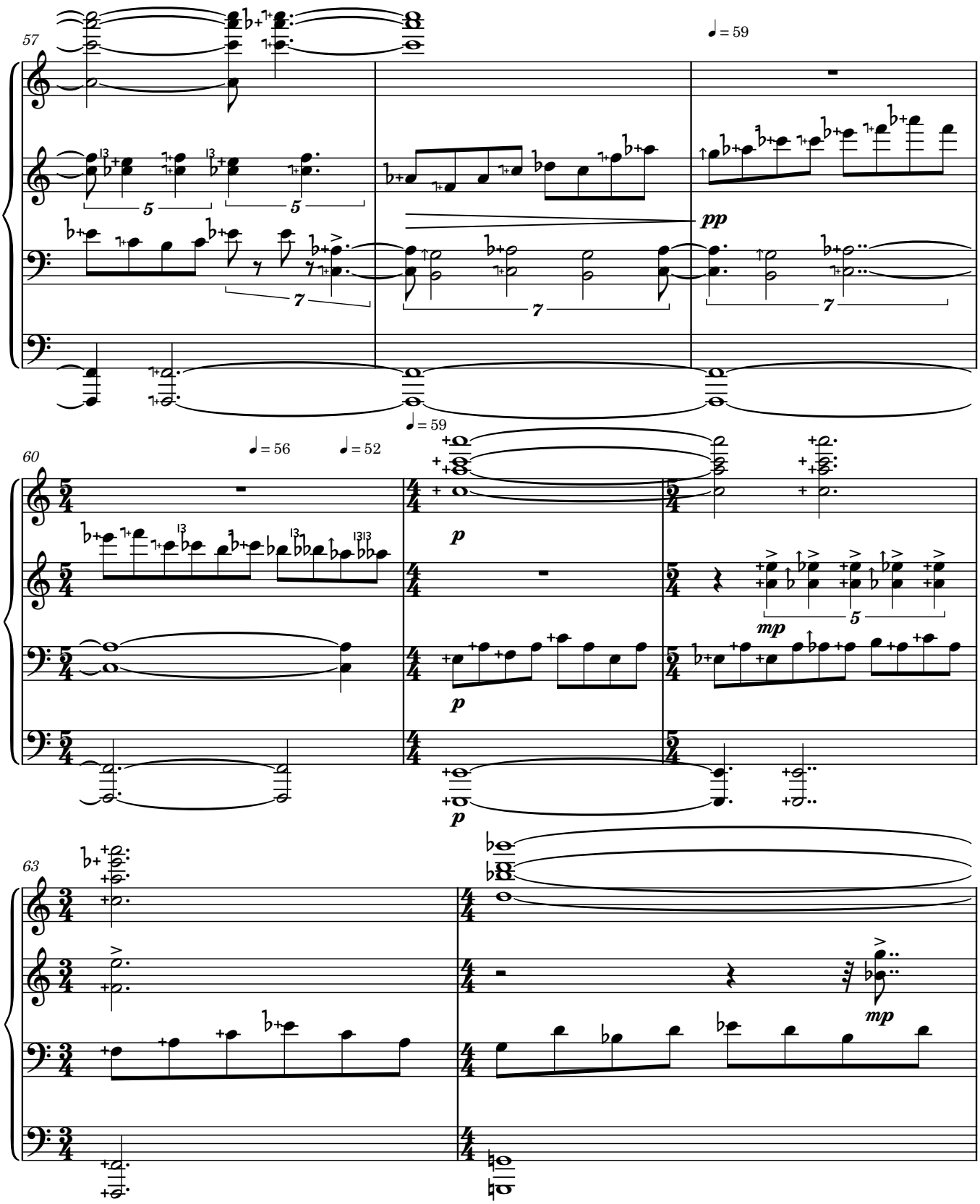

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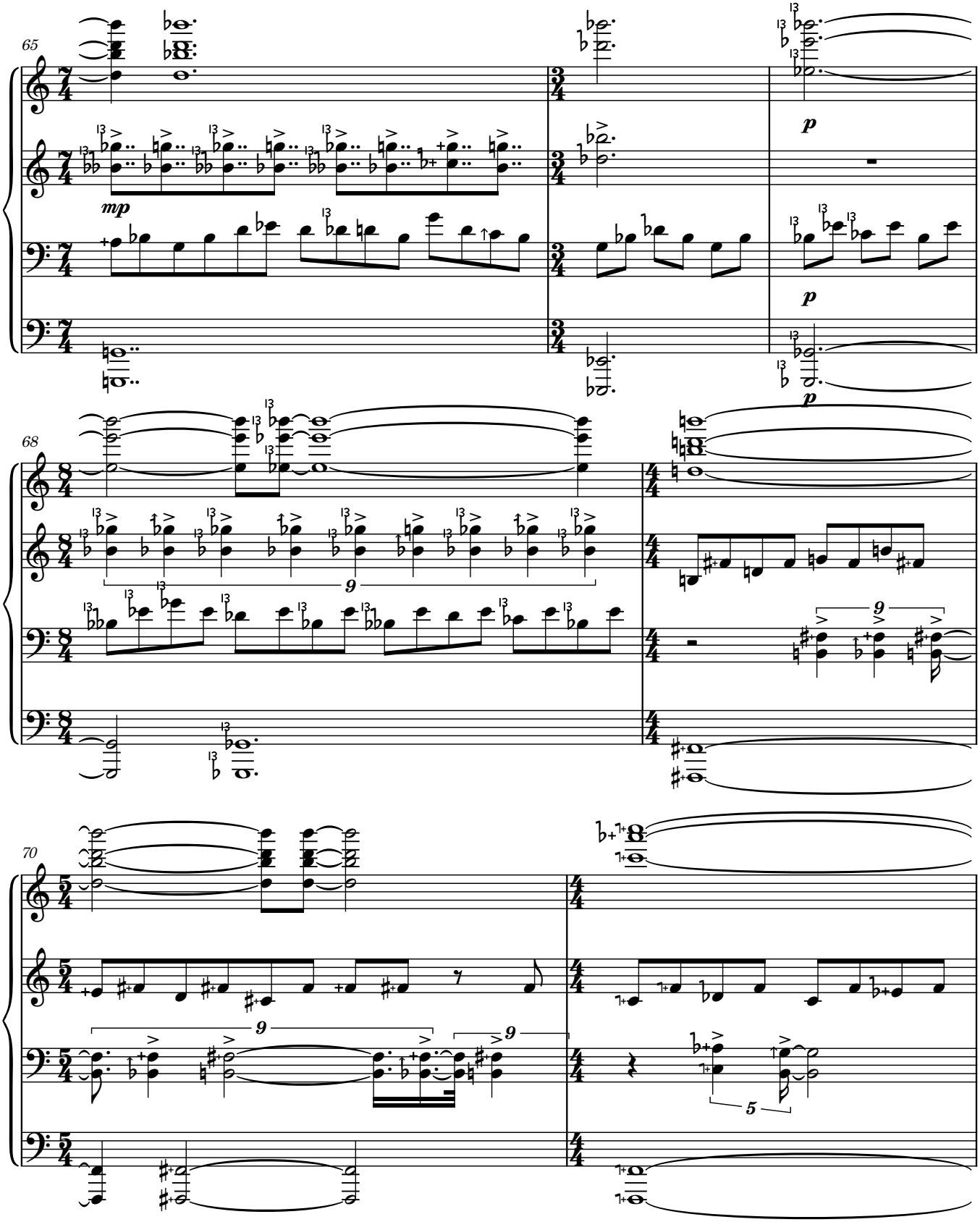

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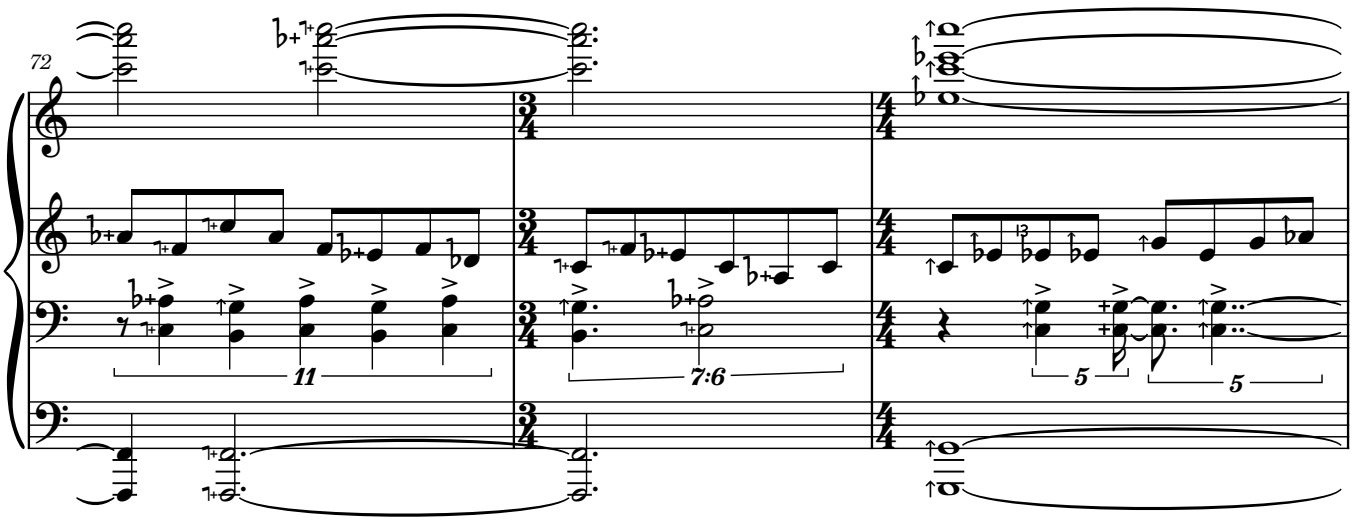

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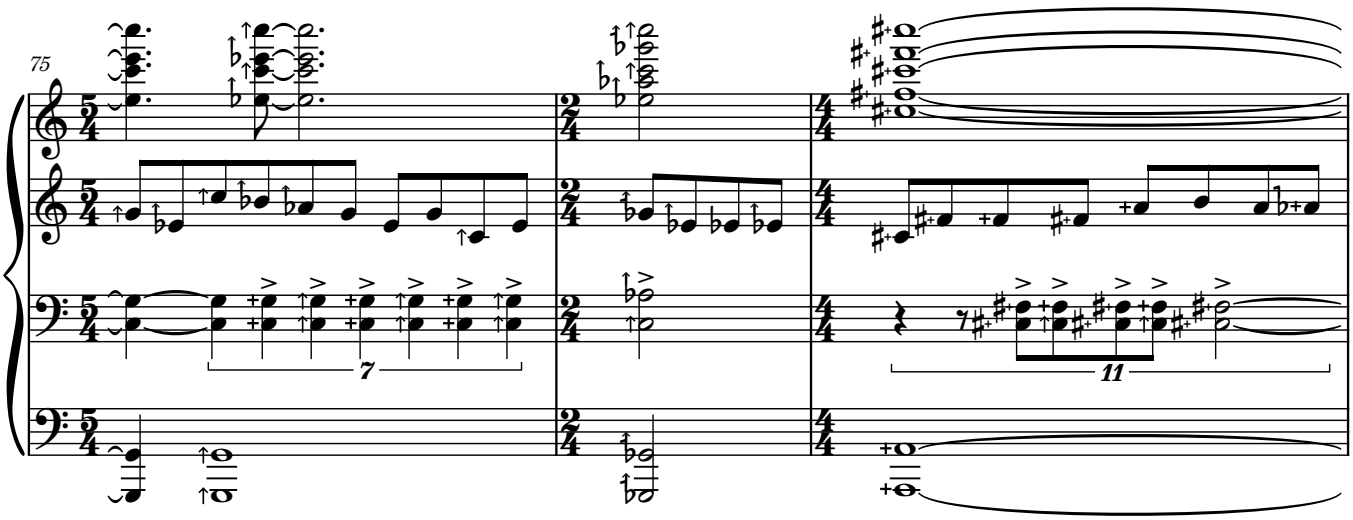

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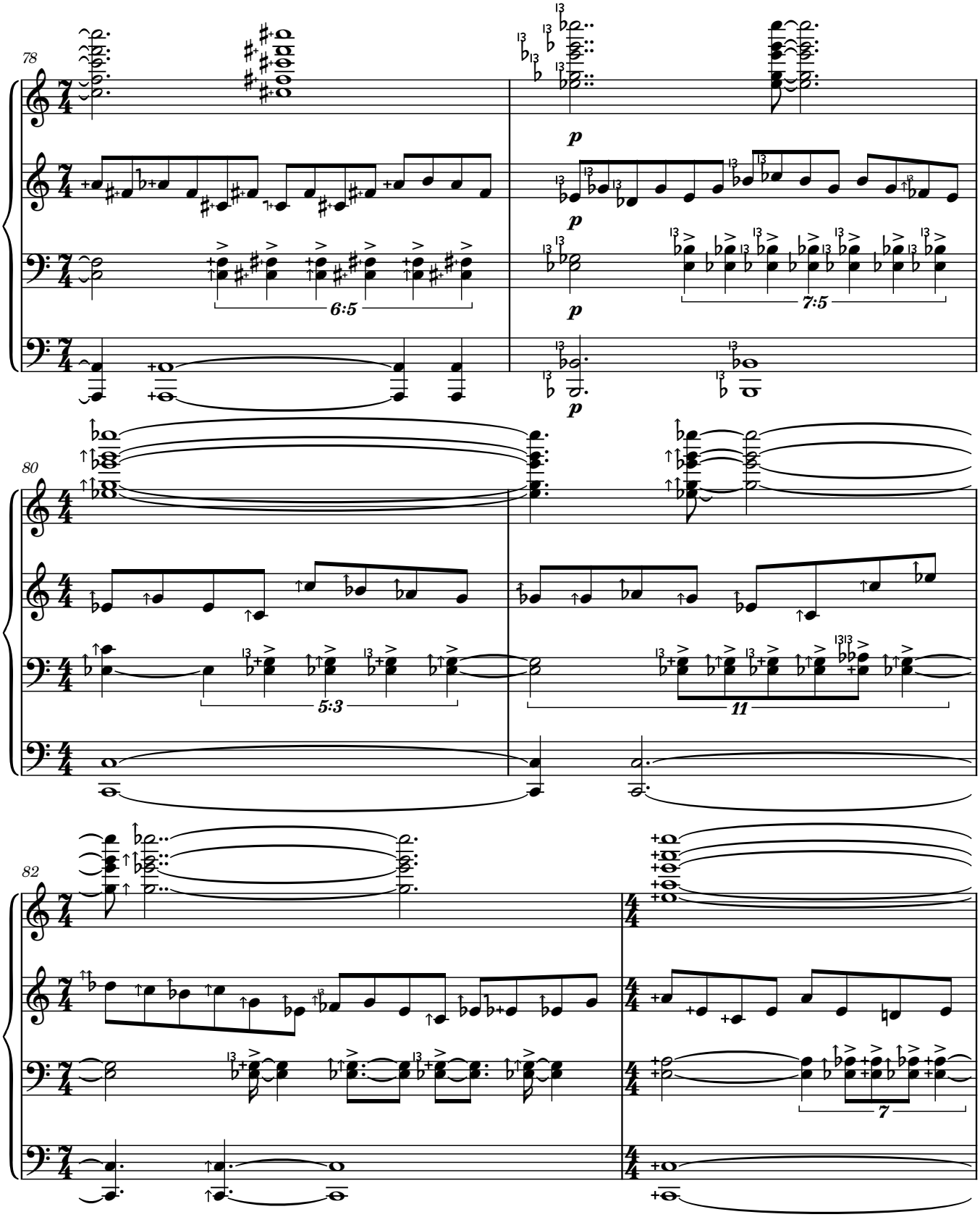

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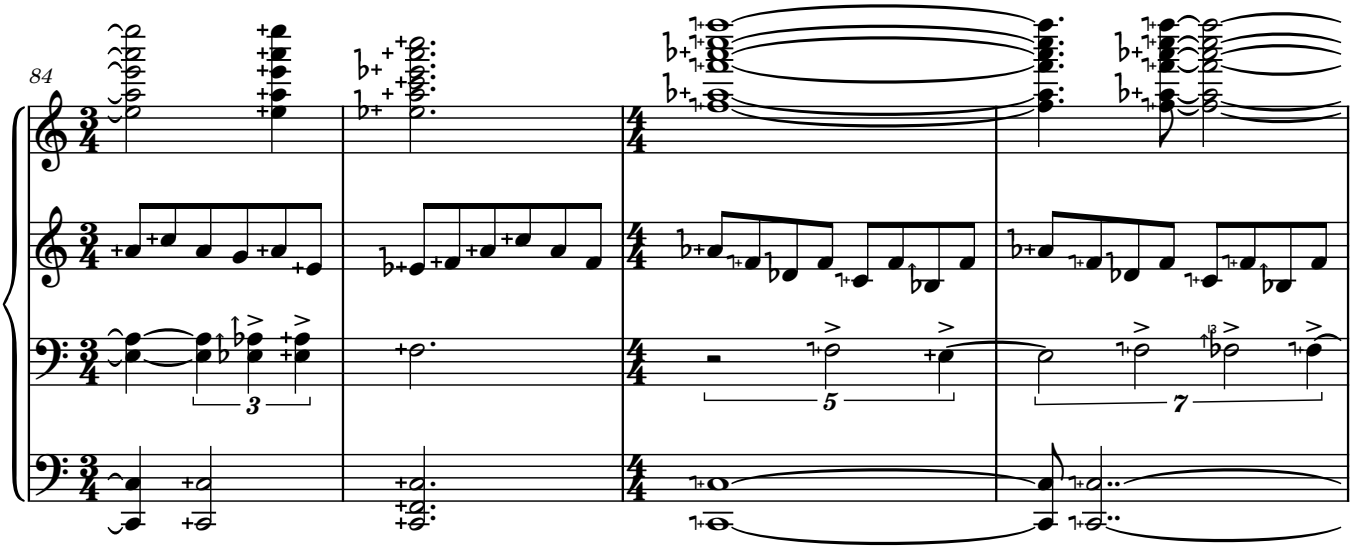

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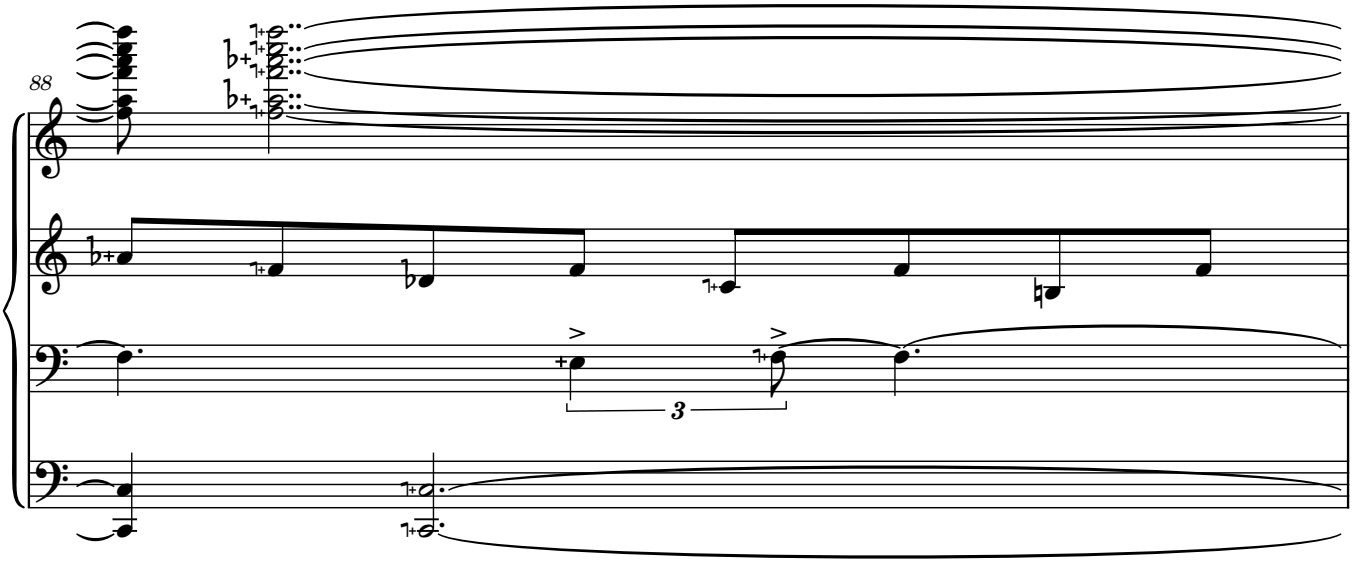

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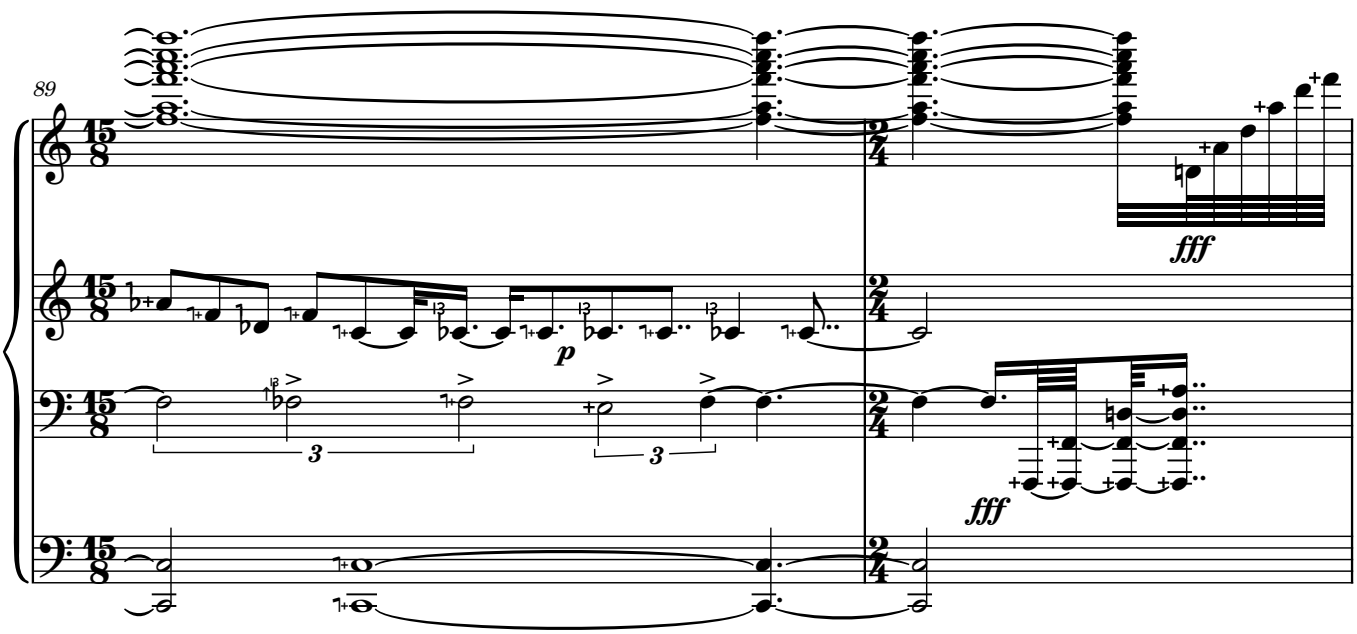

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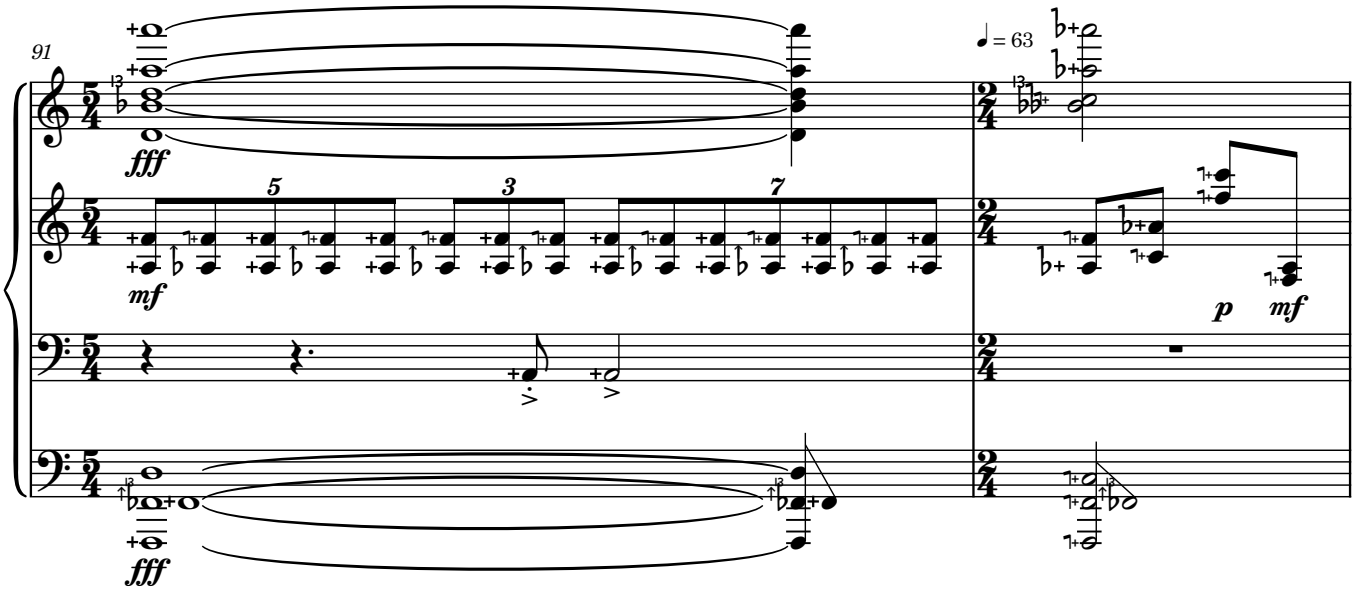

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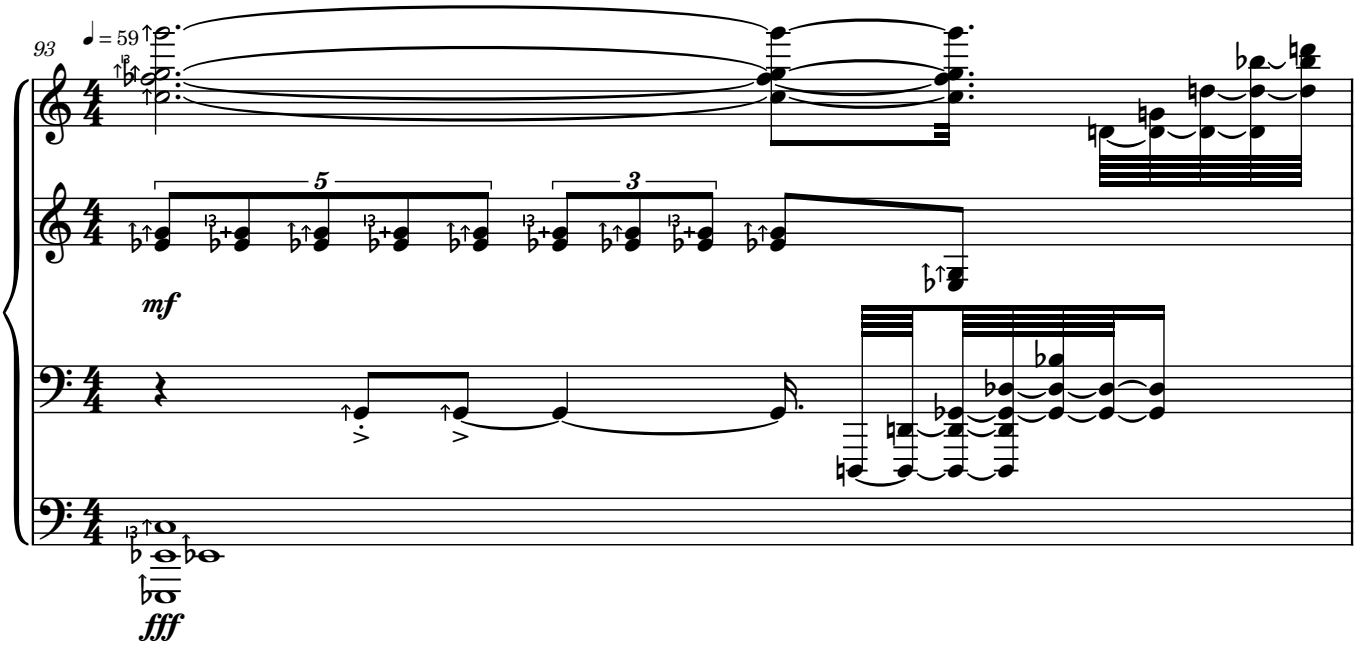

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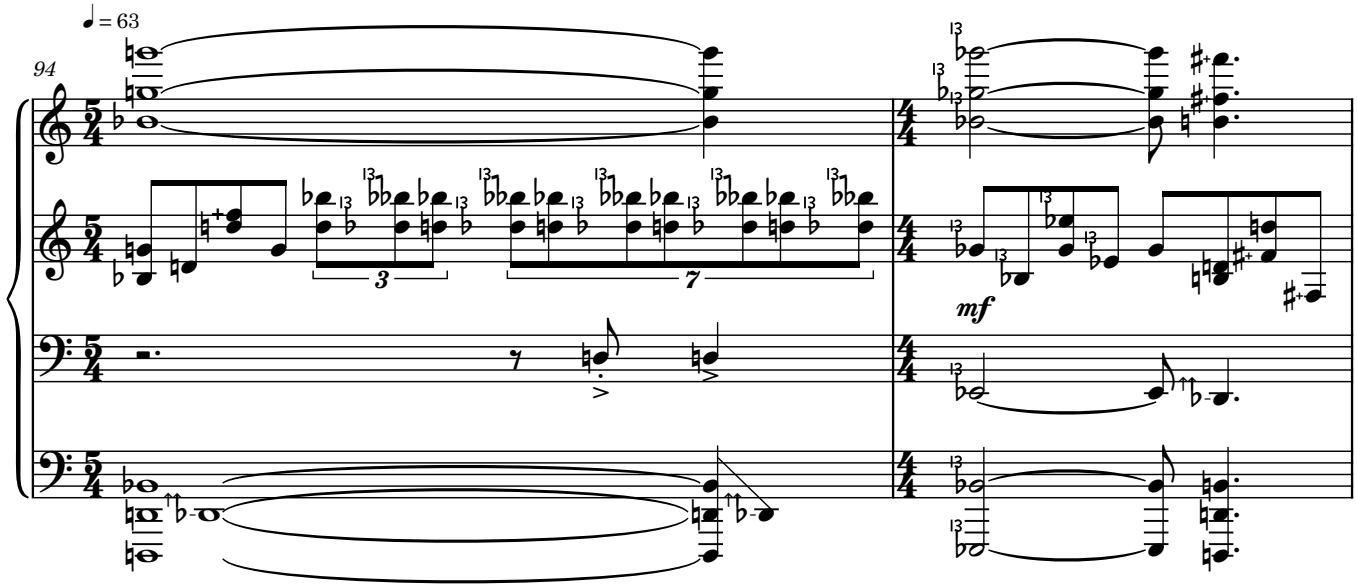

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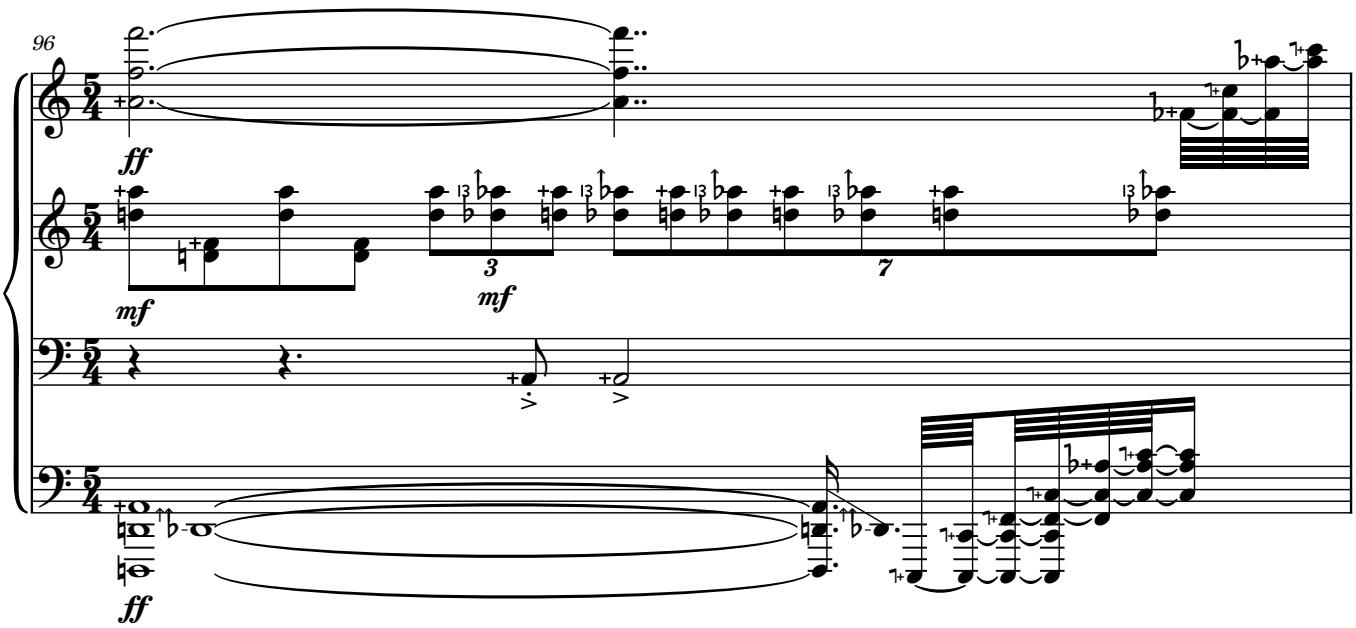

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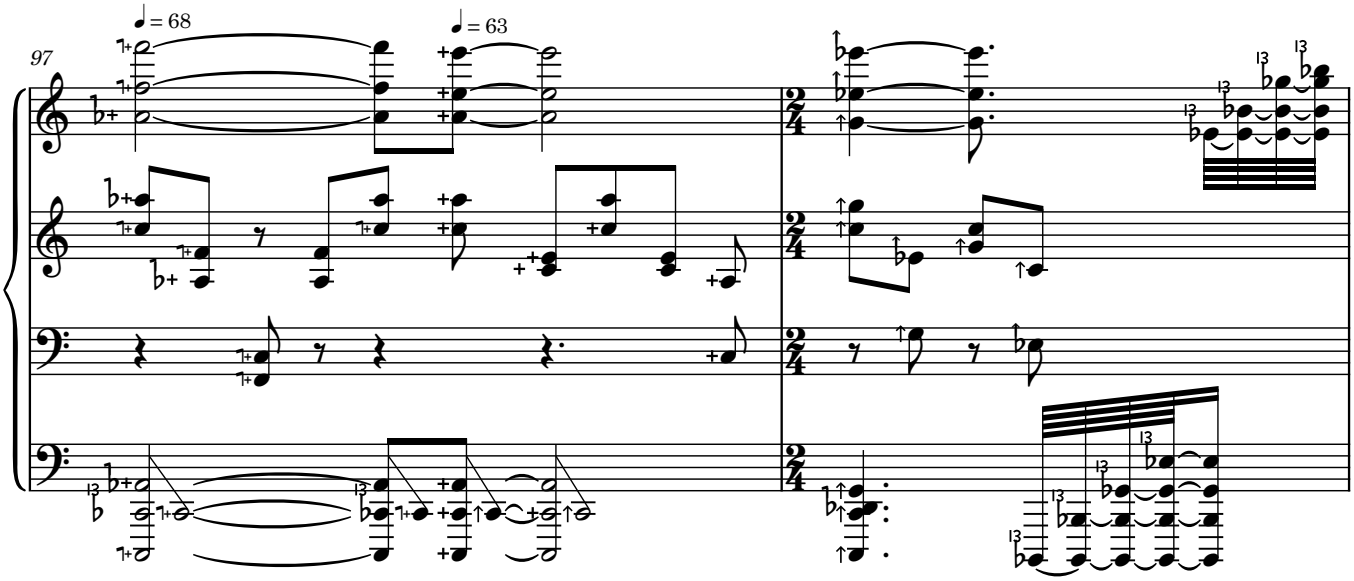

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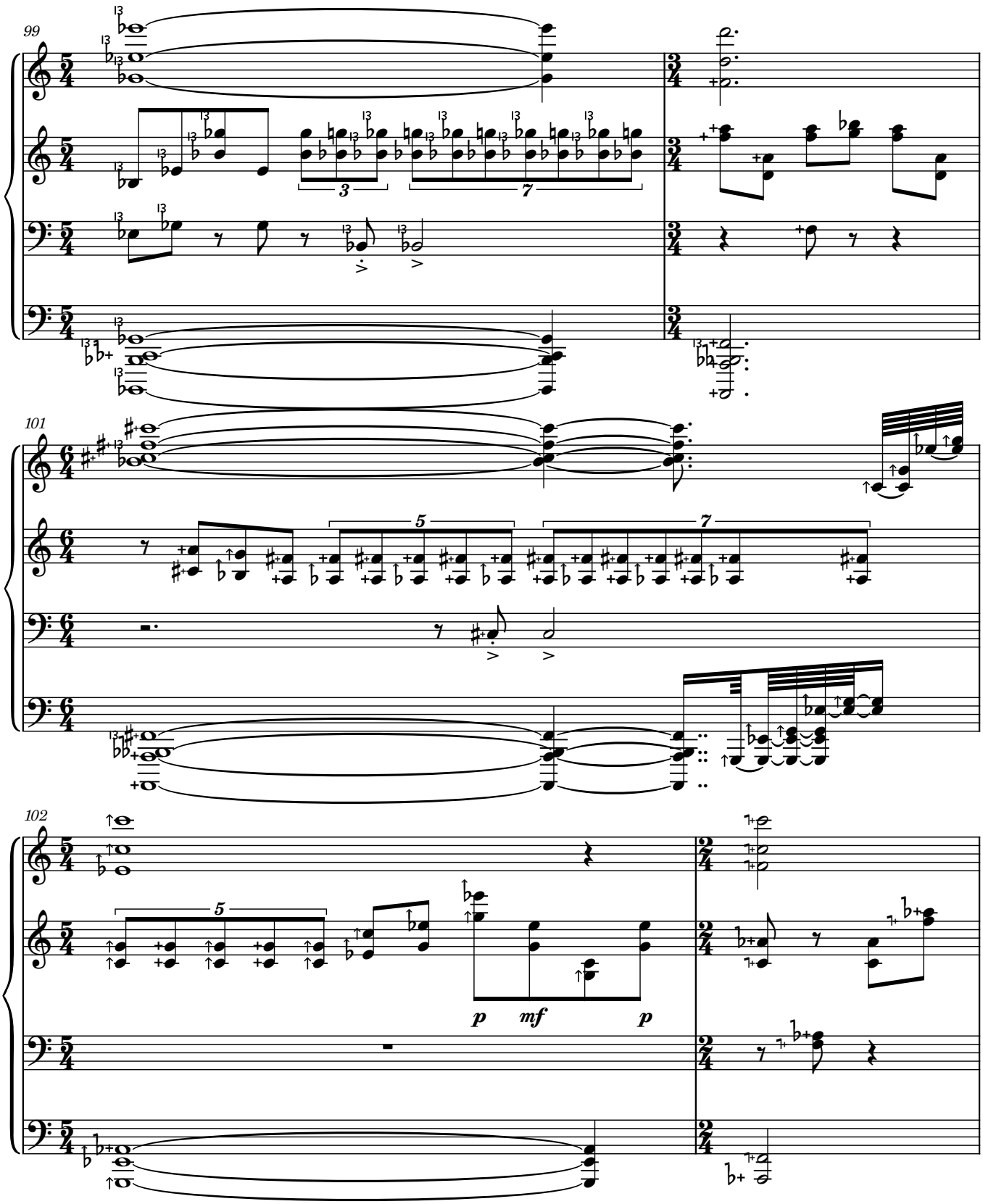

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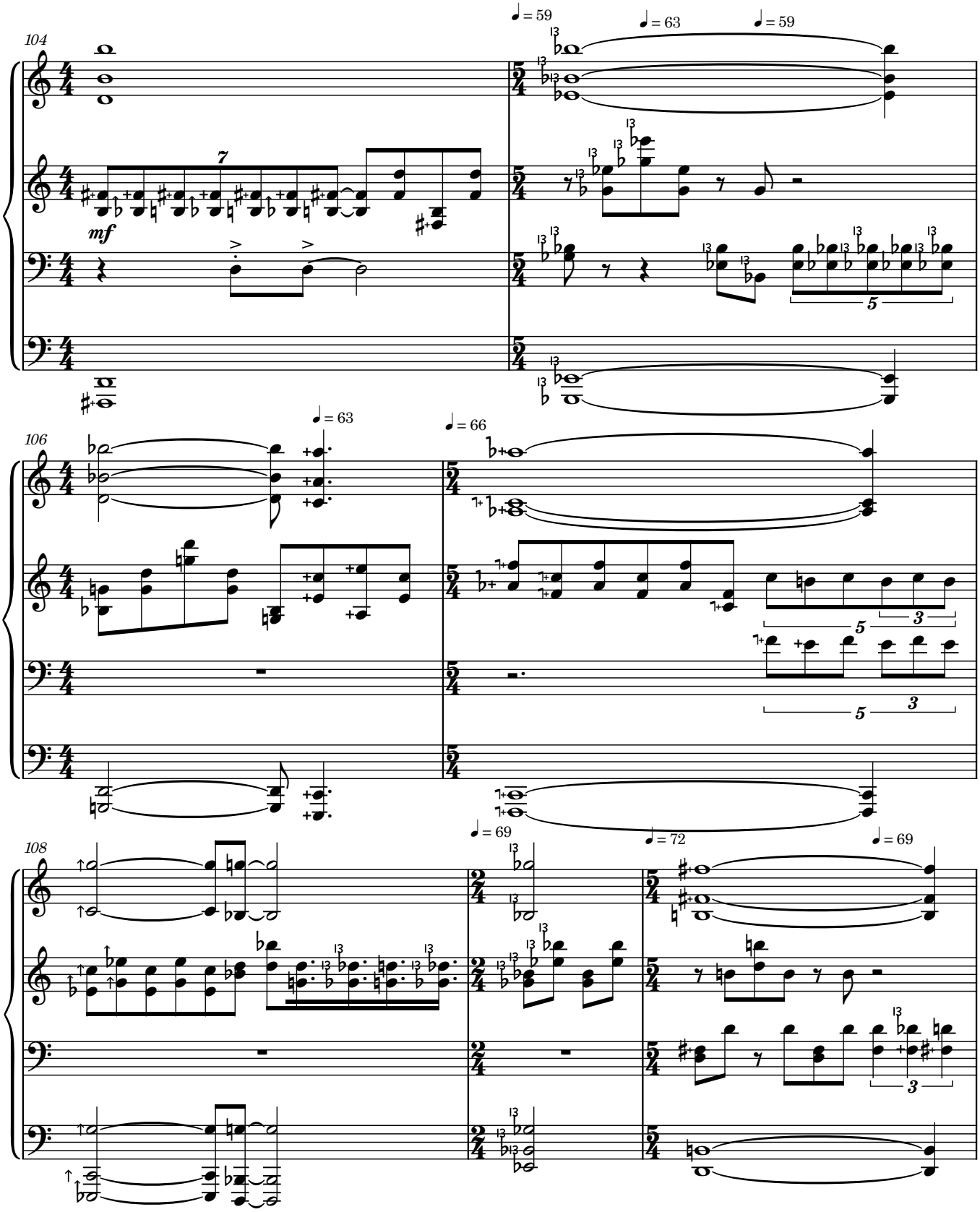

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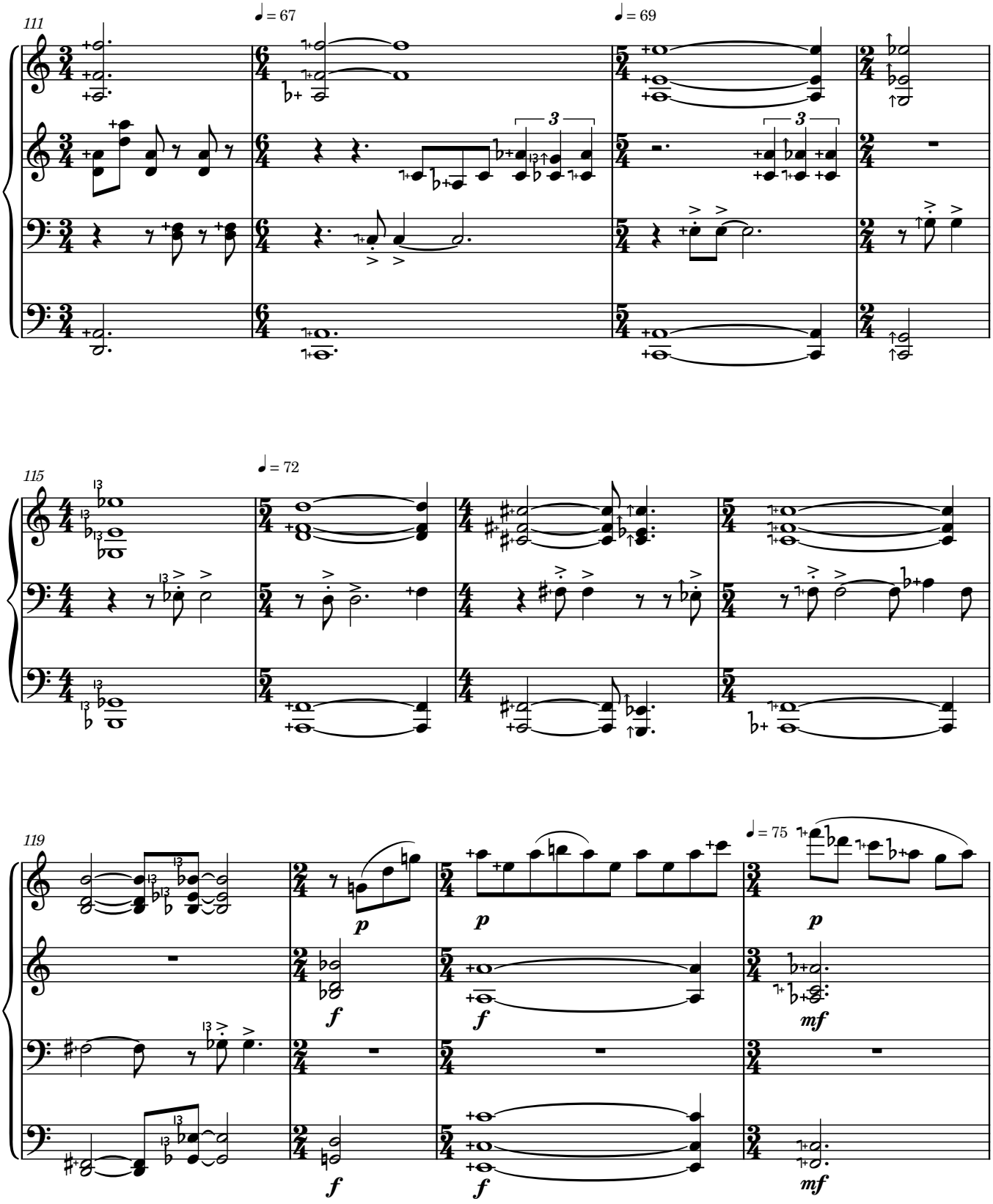

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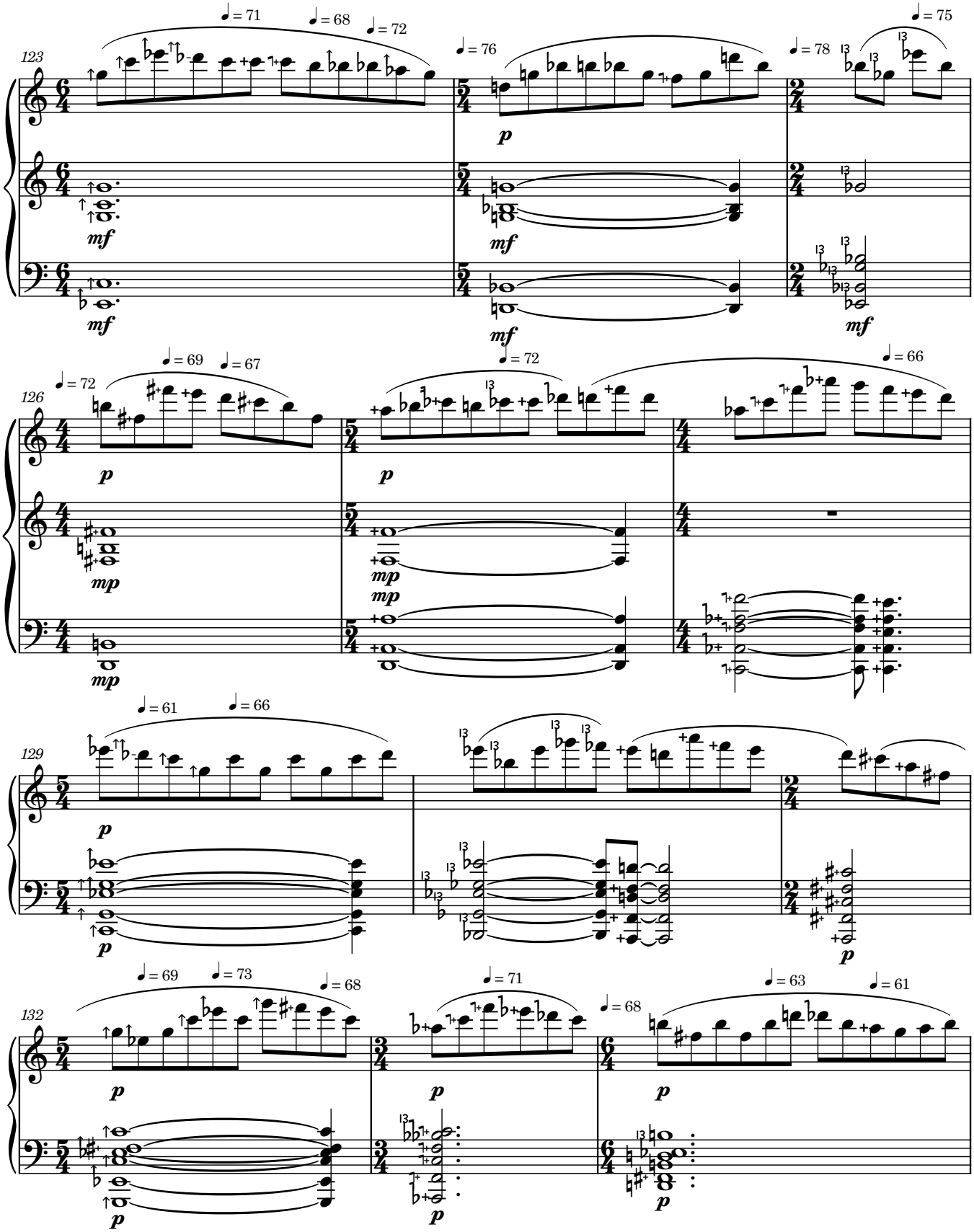

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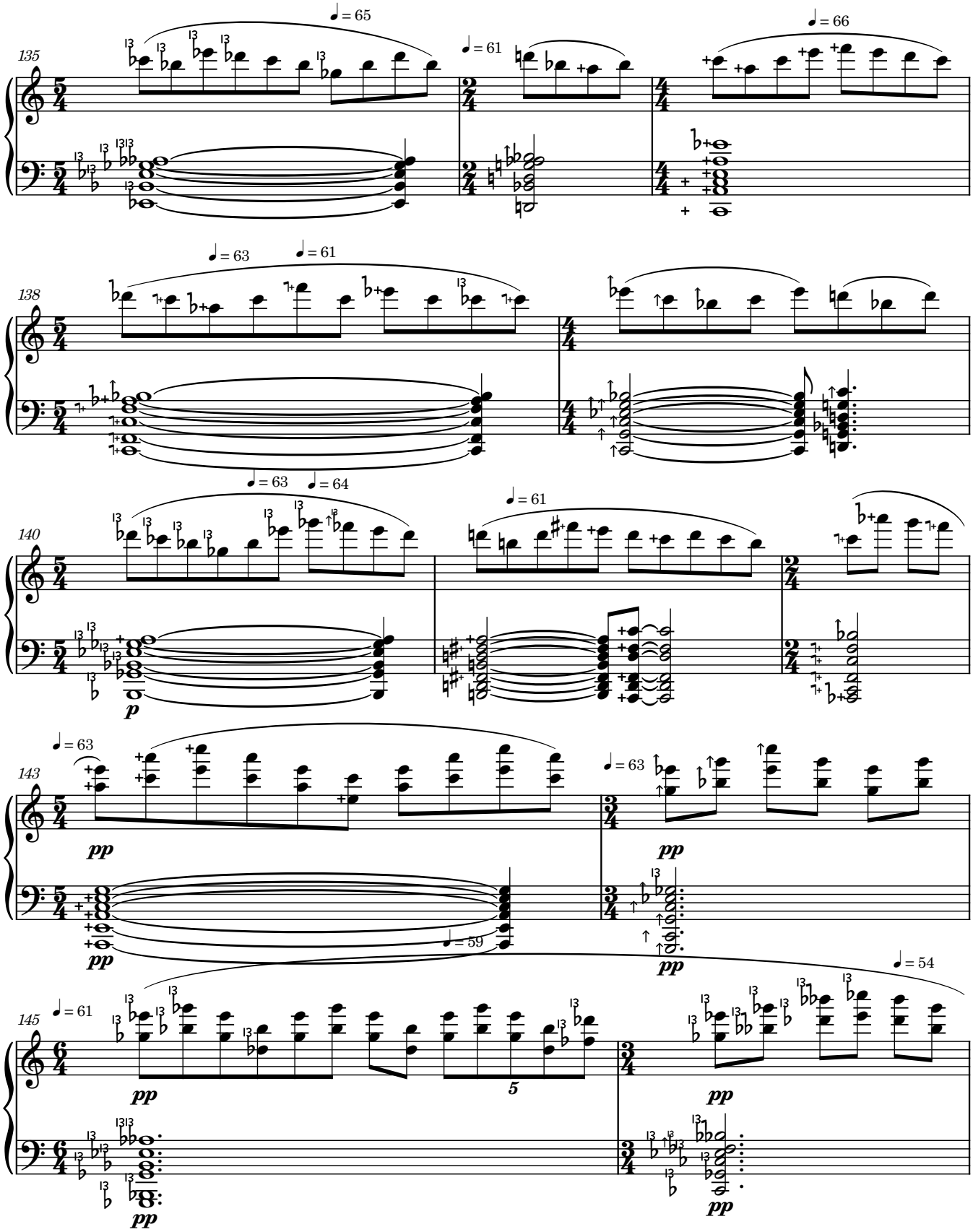

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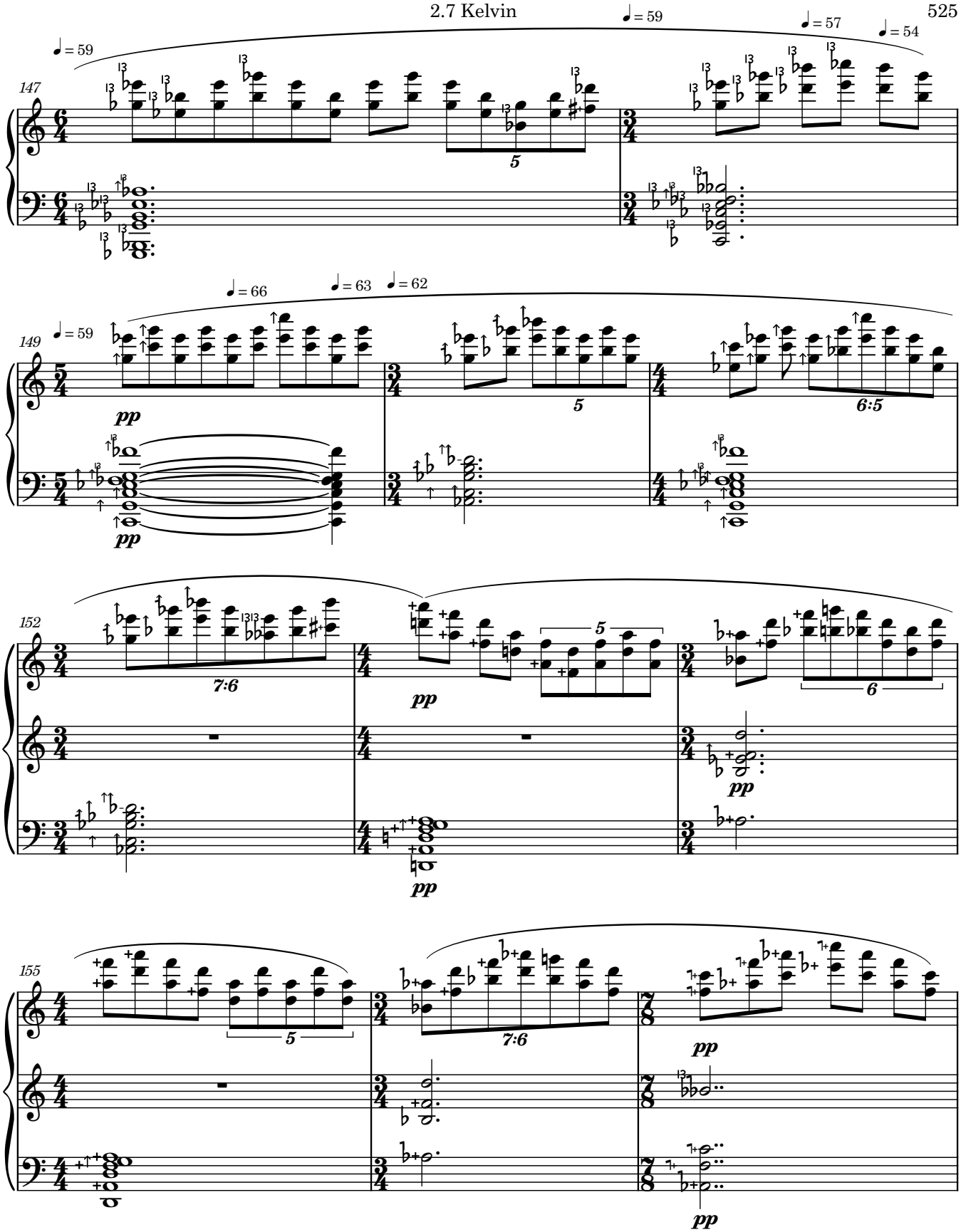

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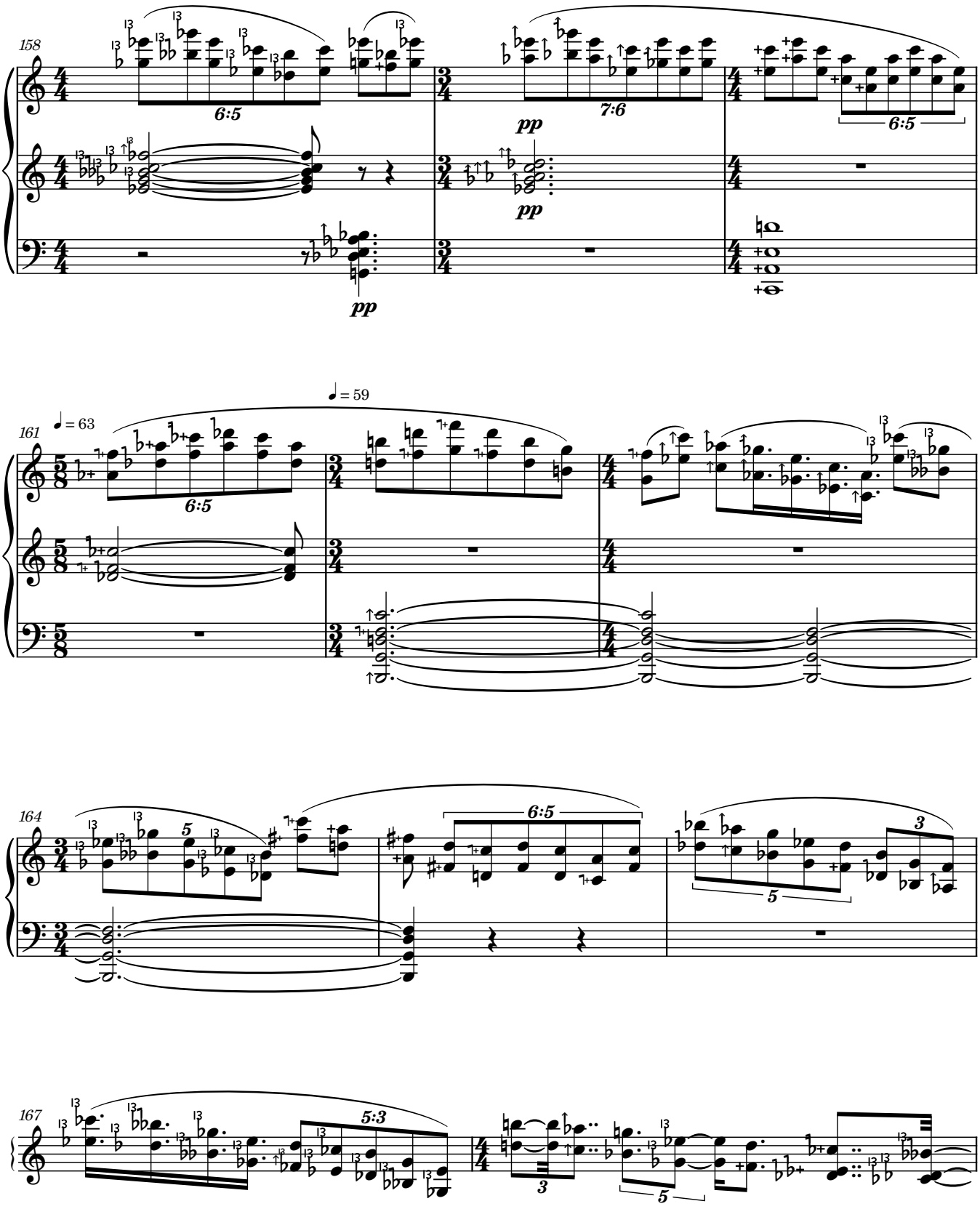

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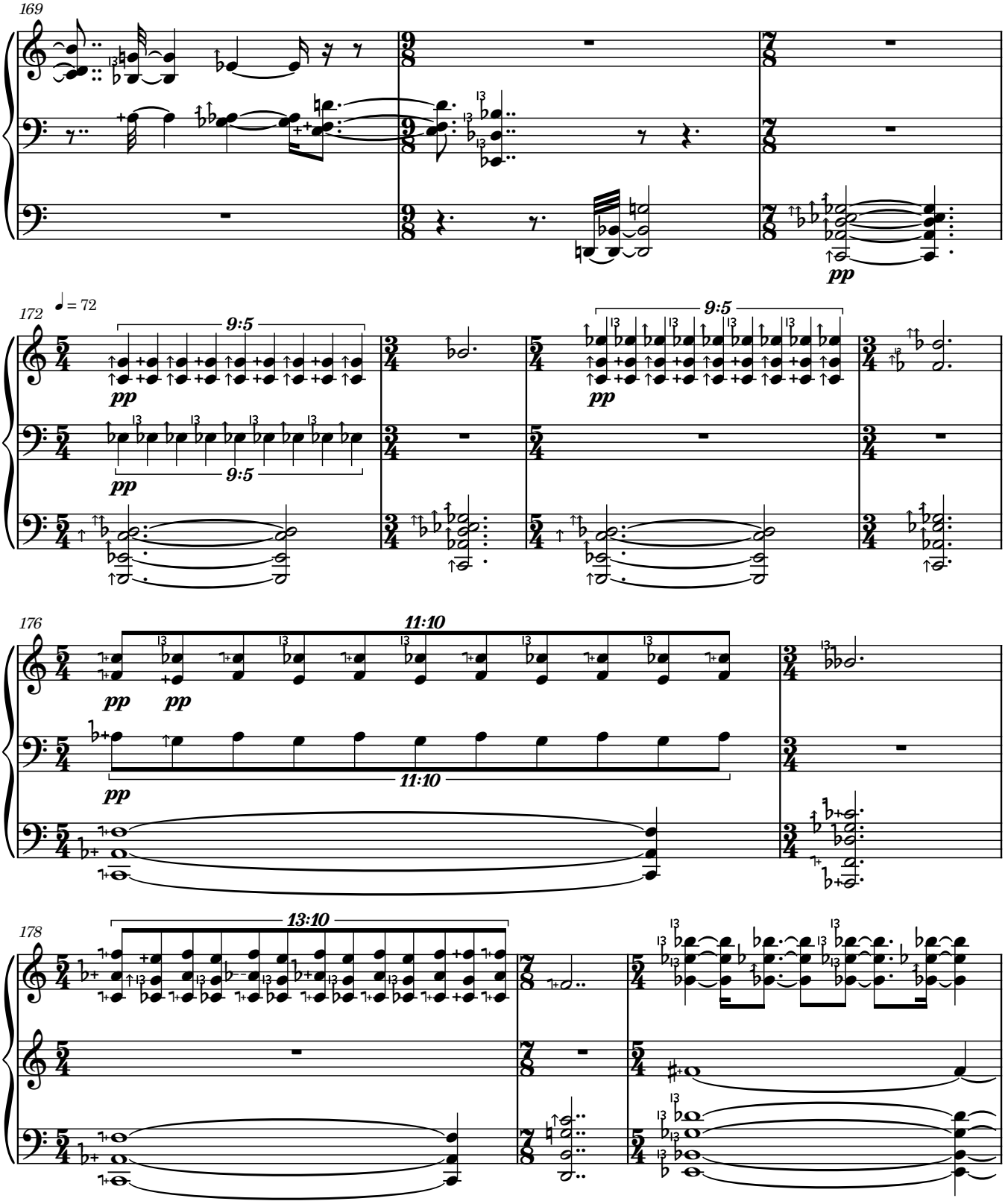

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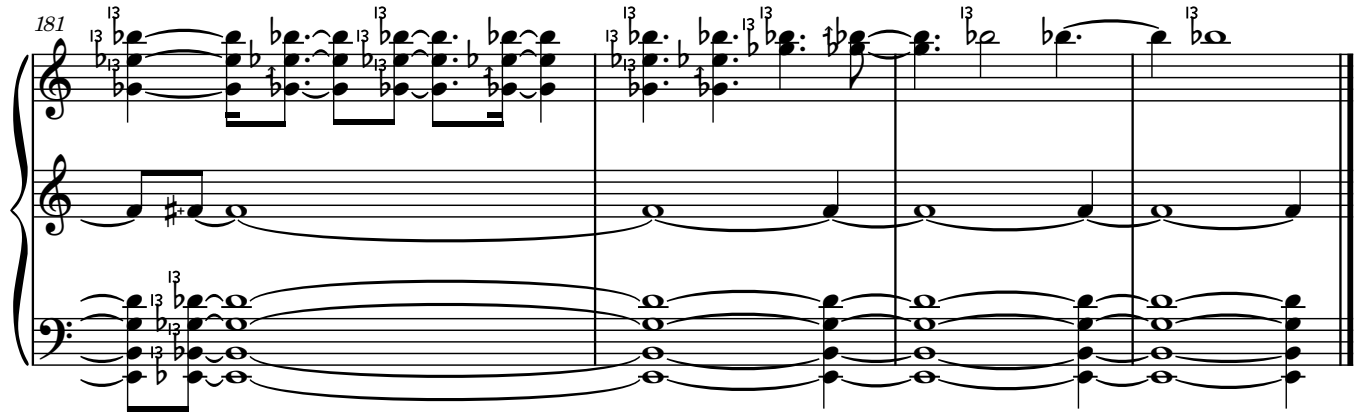

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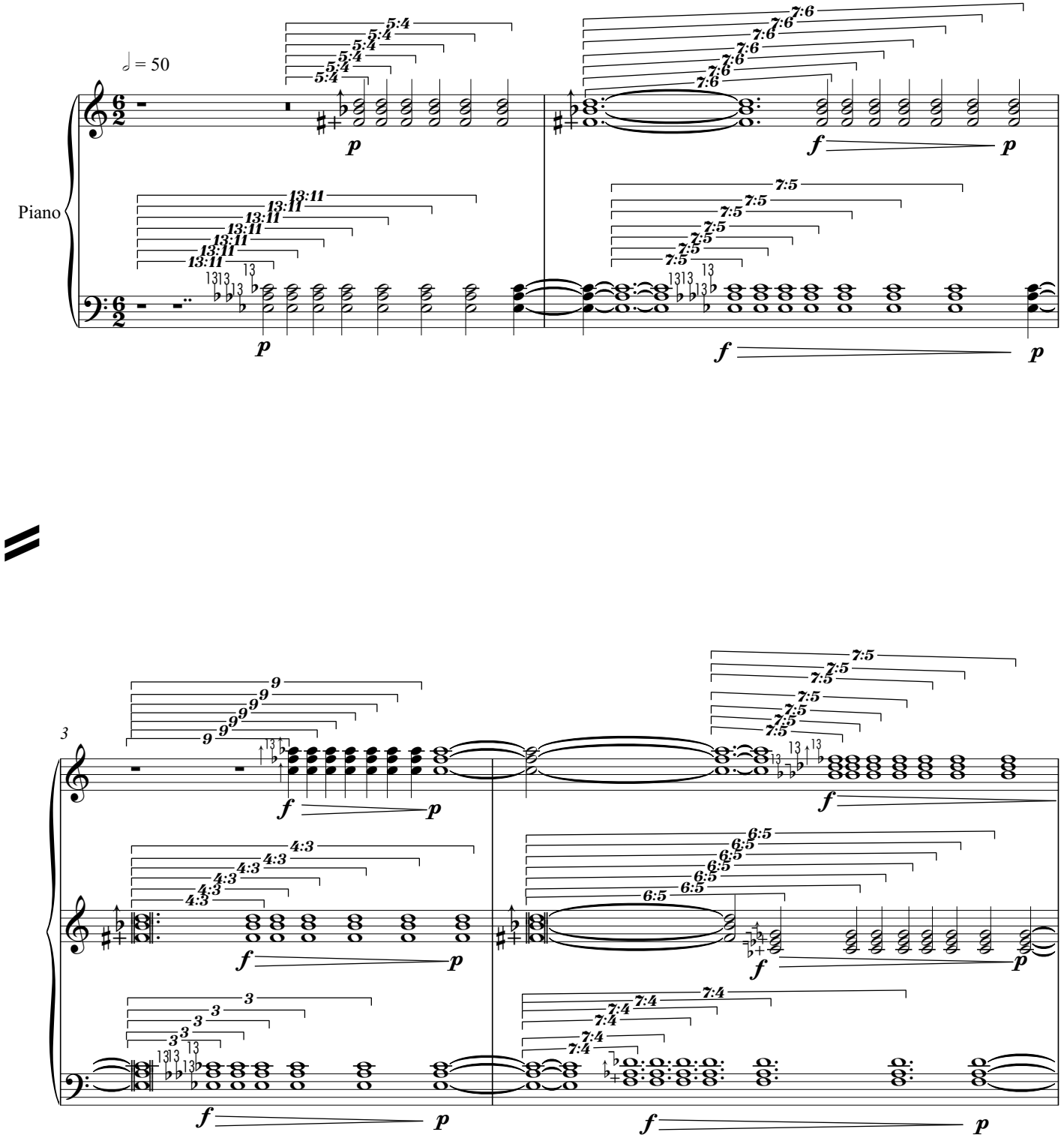

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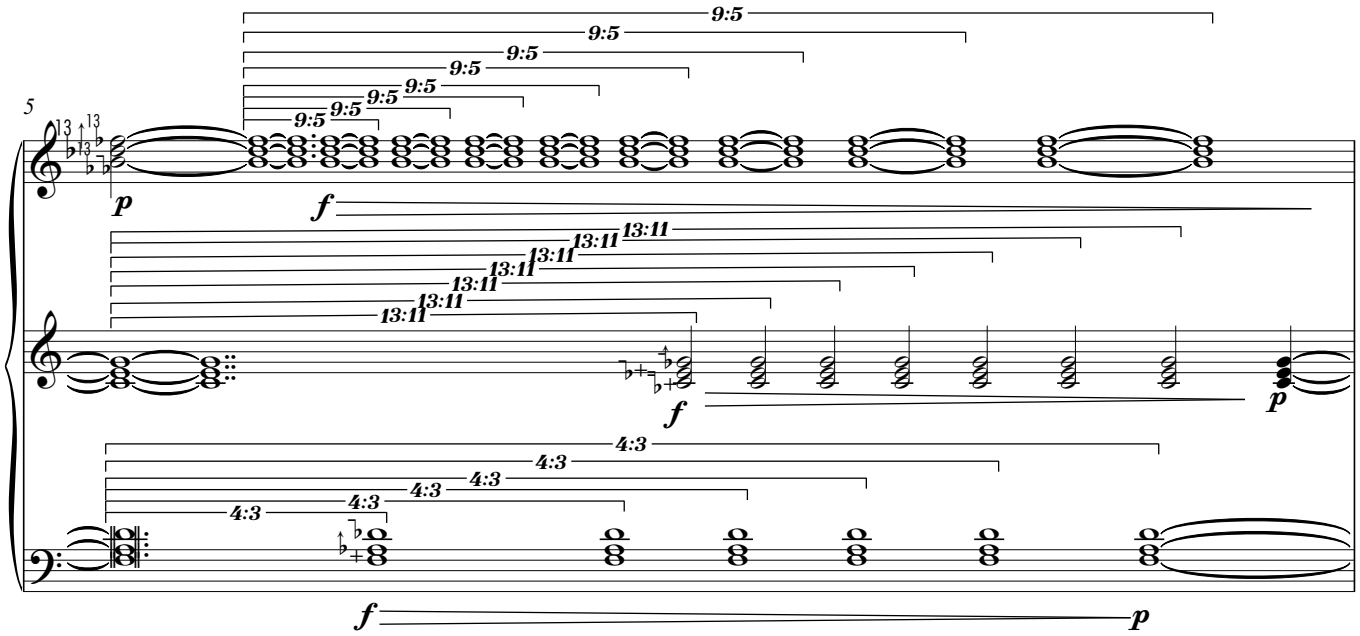
July - September 27, 2020
from a Dec, 2016 sketch
Germantown, NY

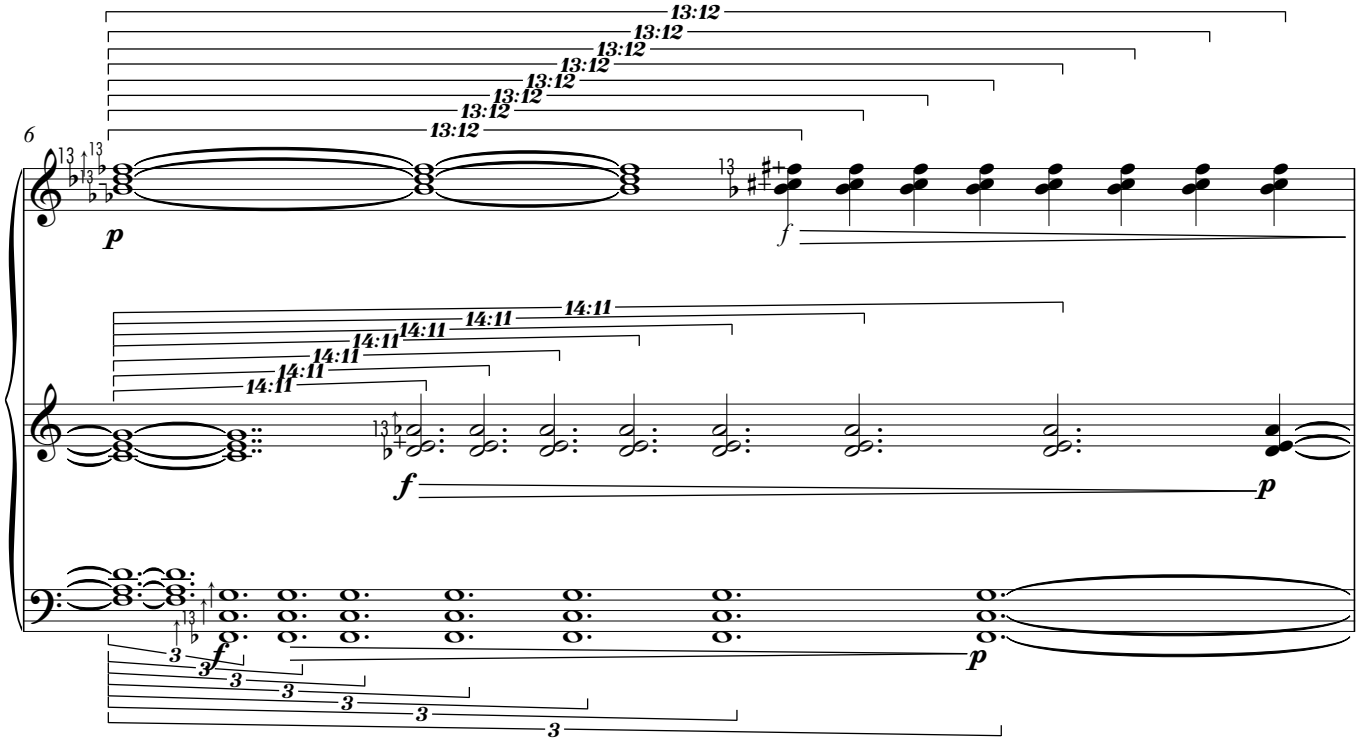
Liquid Mechanisms

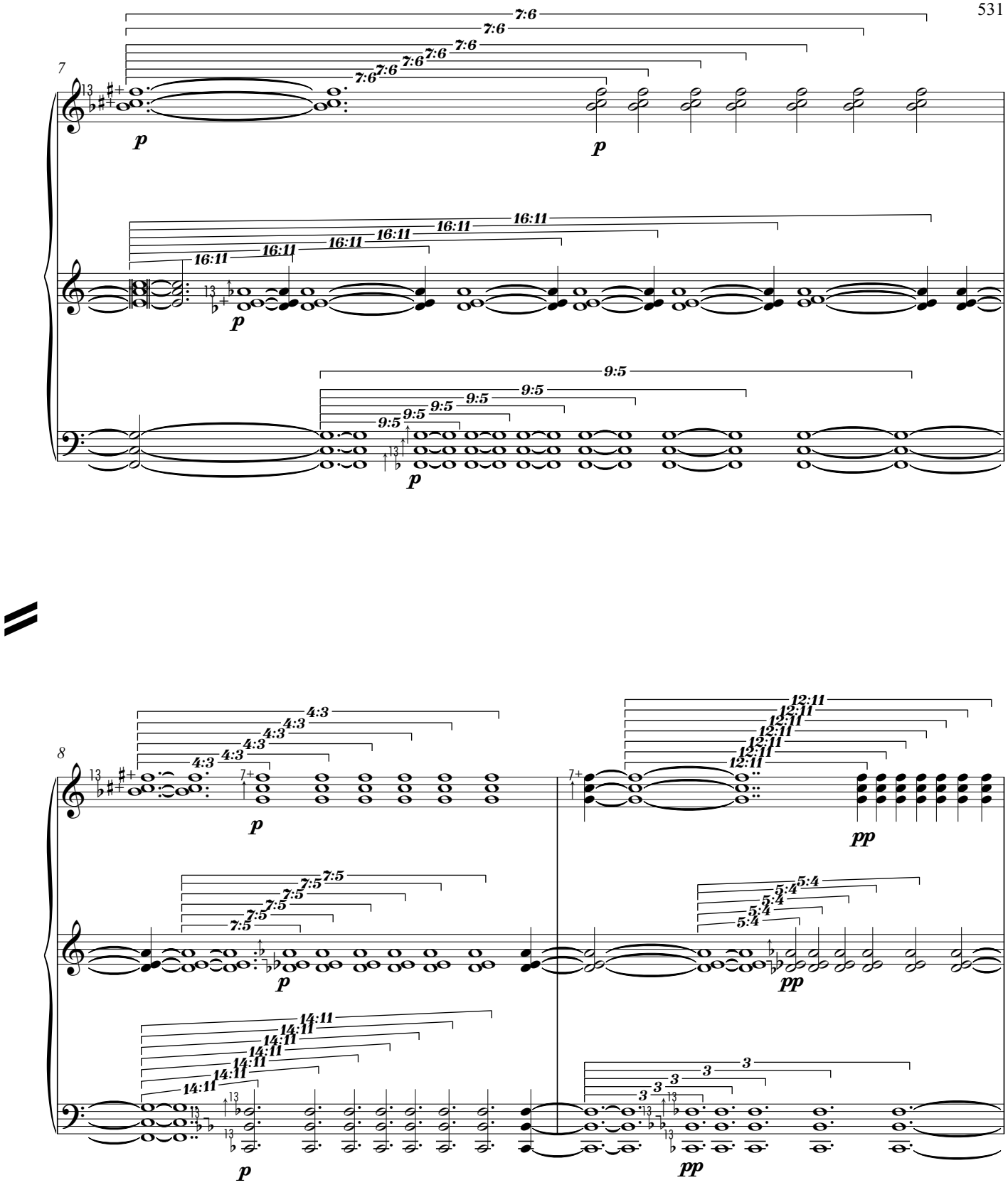
Kyle Gann
2016

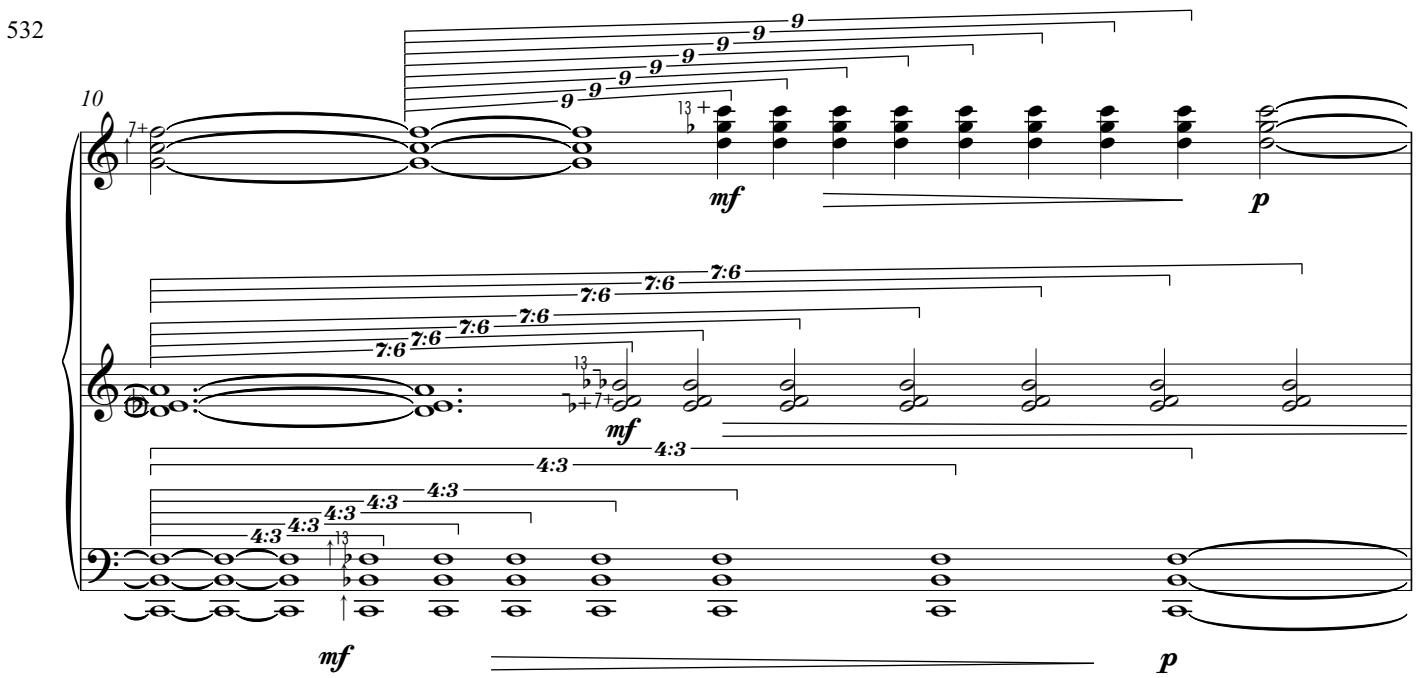


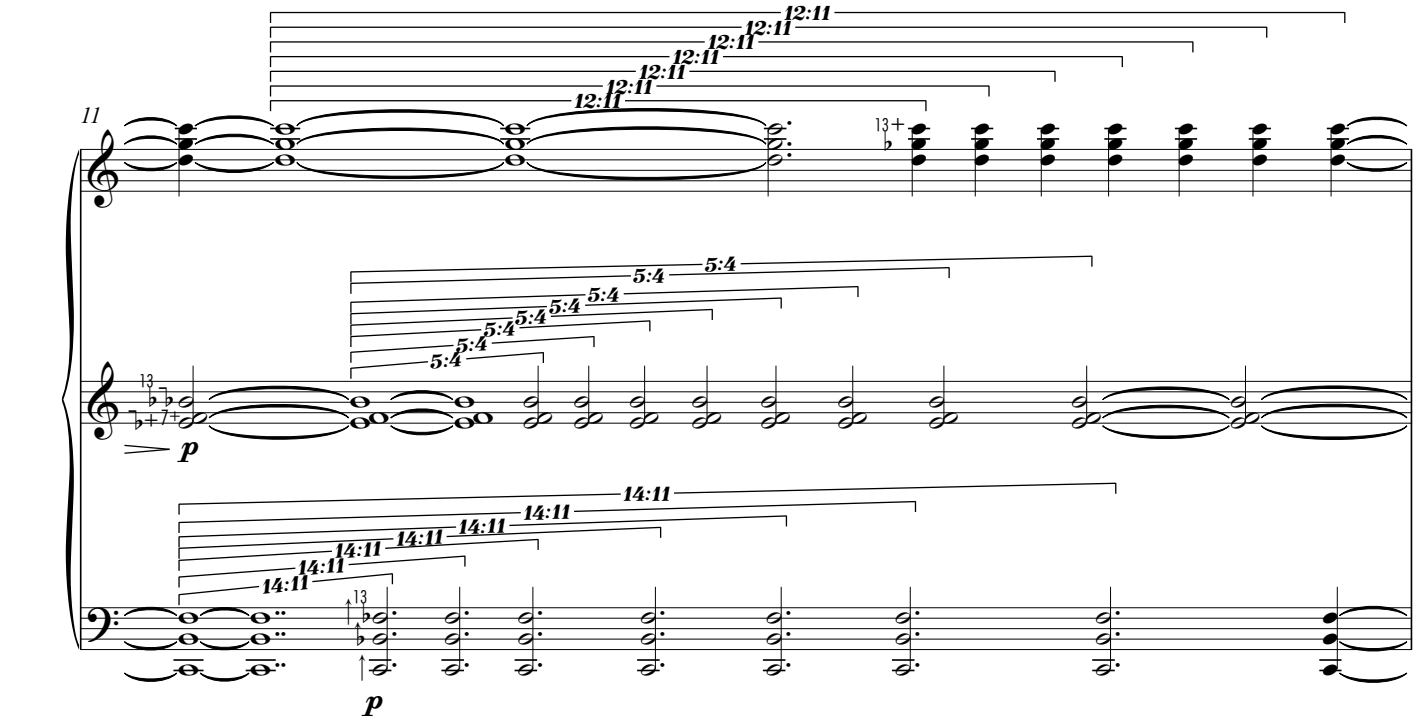
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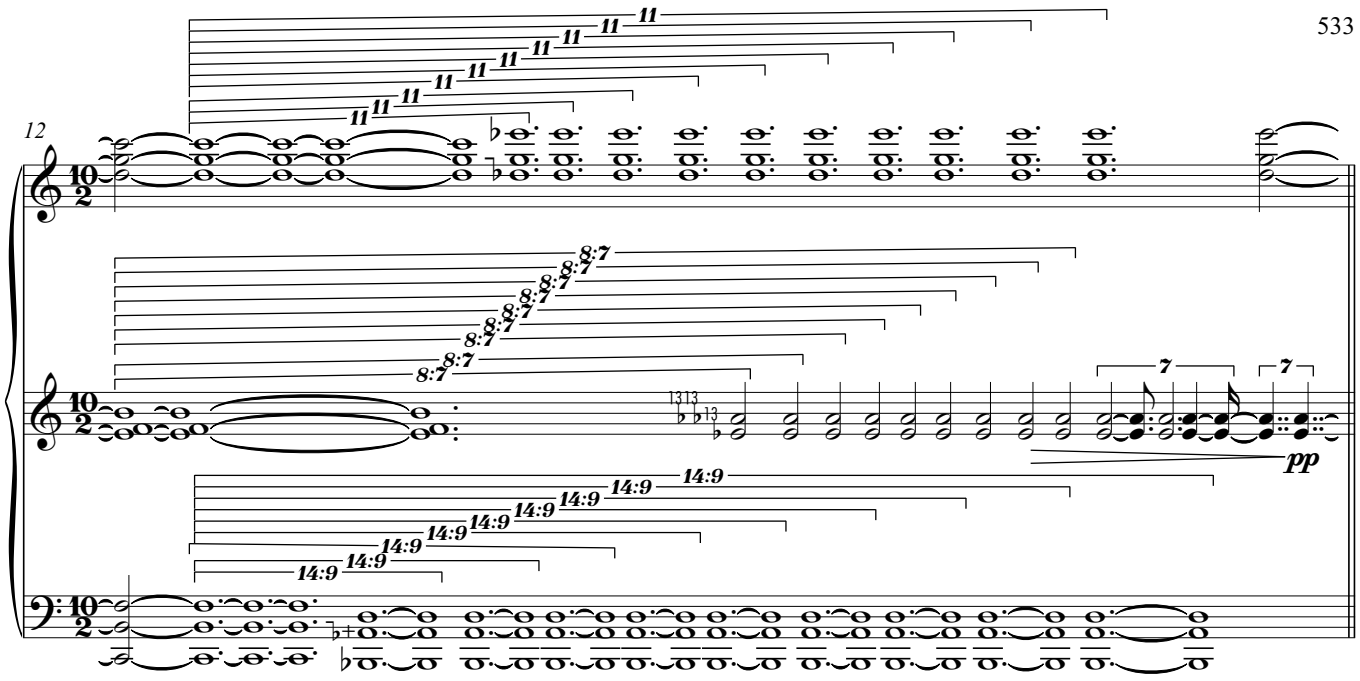

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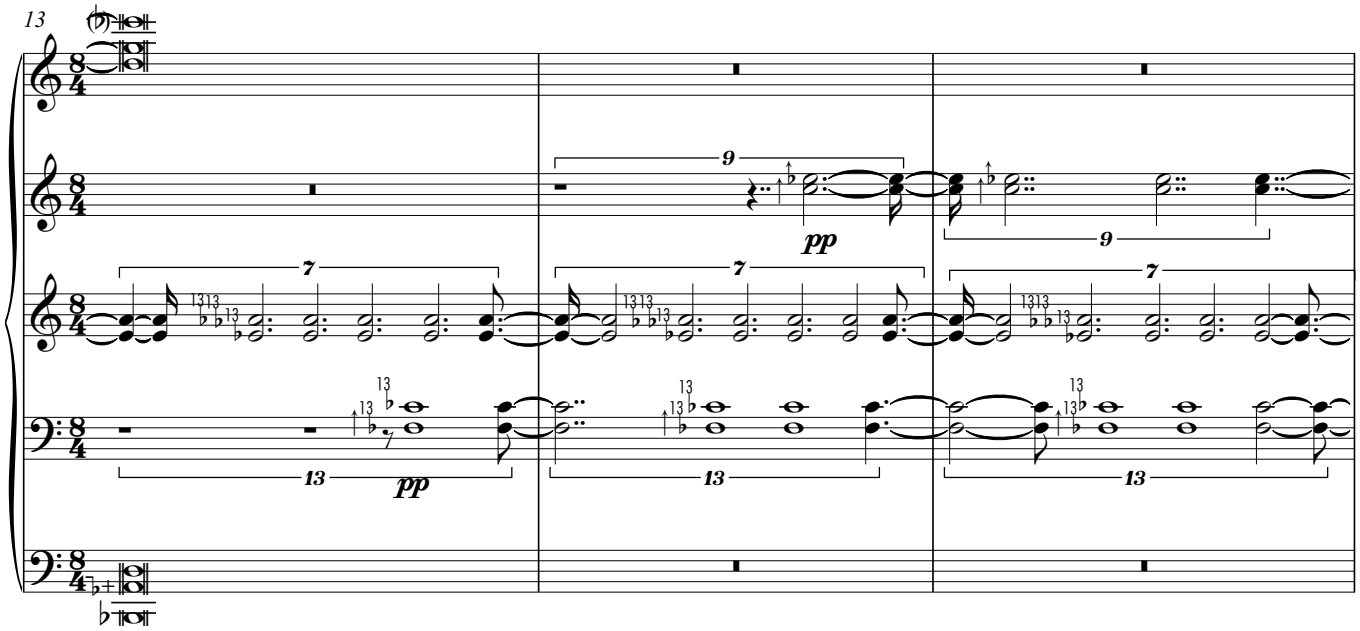

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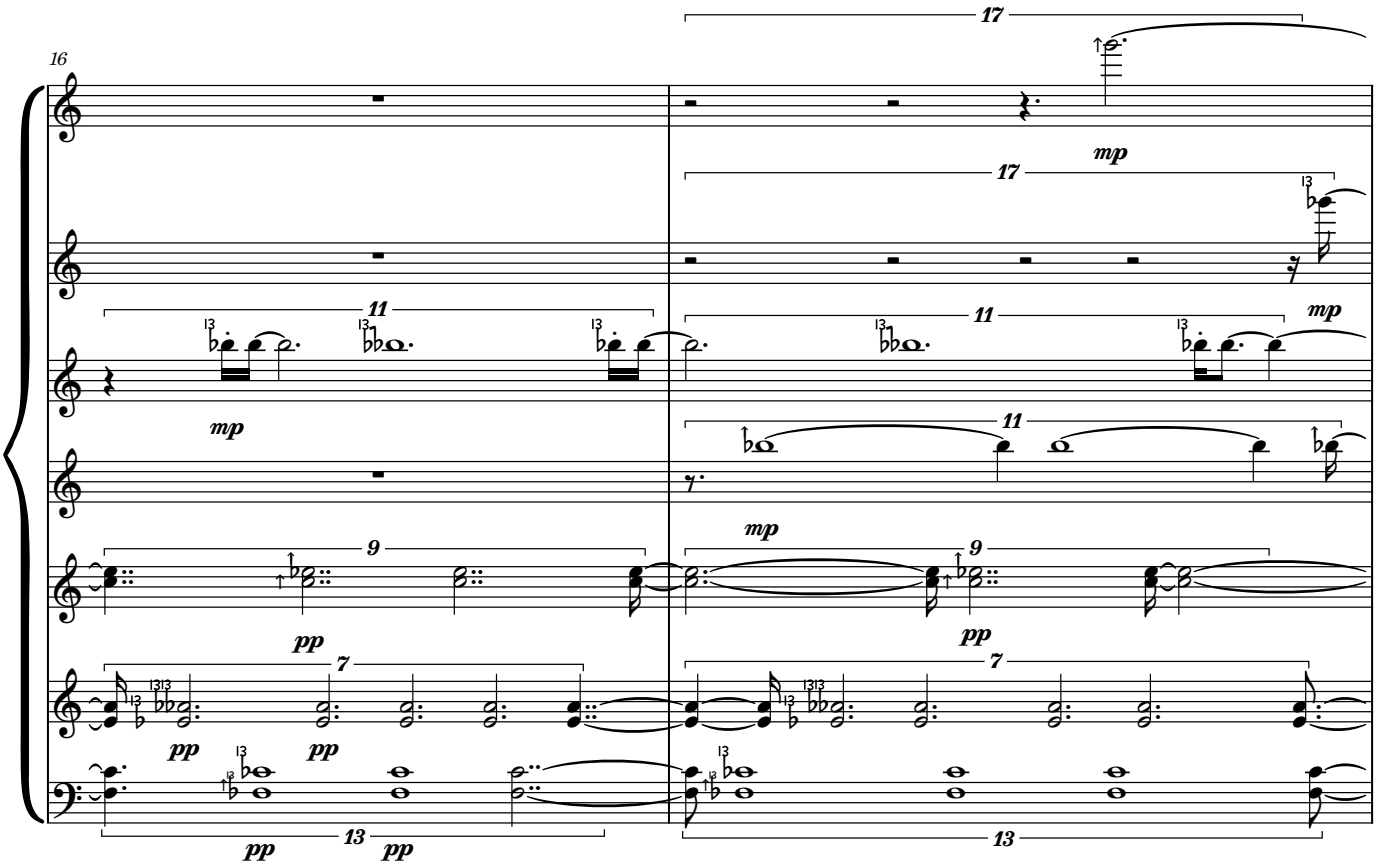

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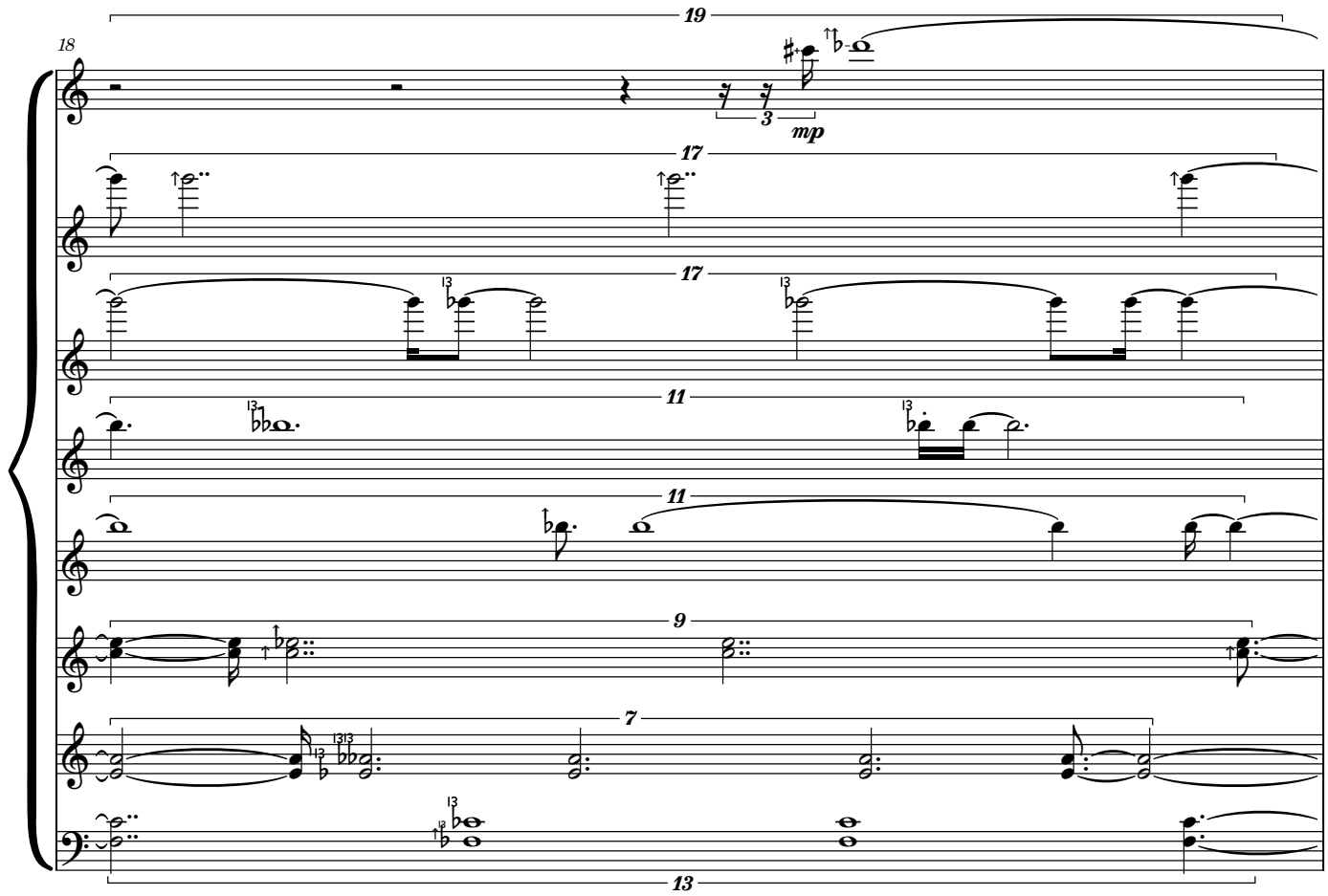

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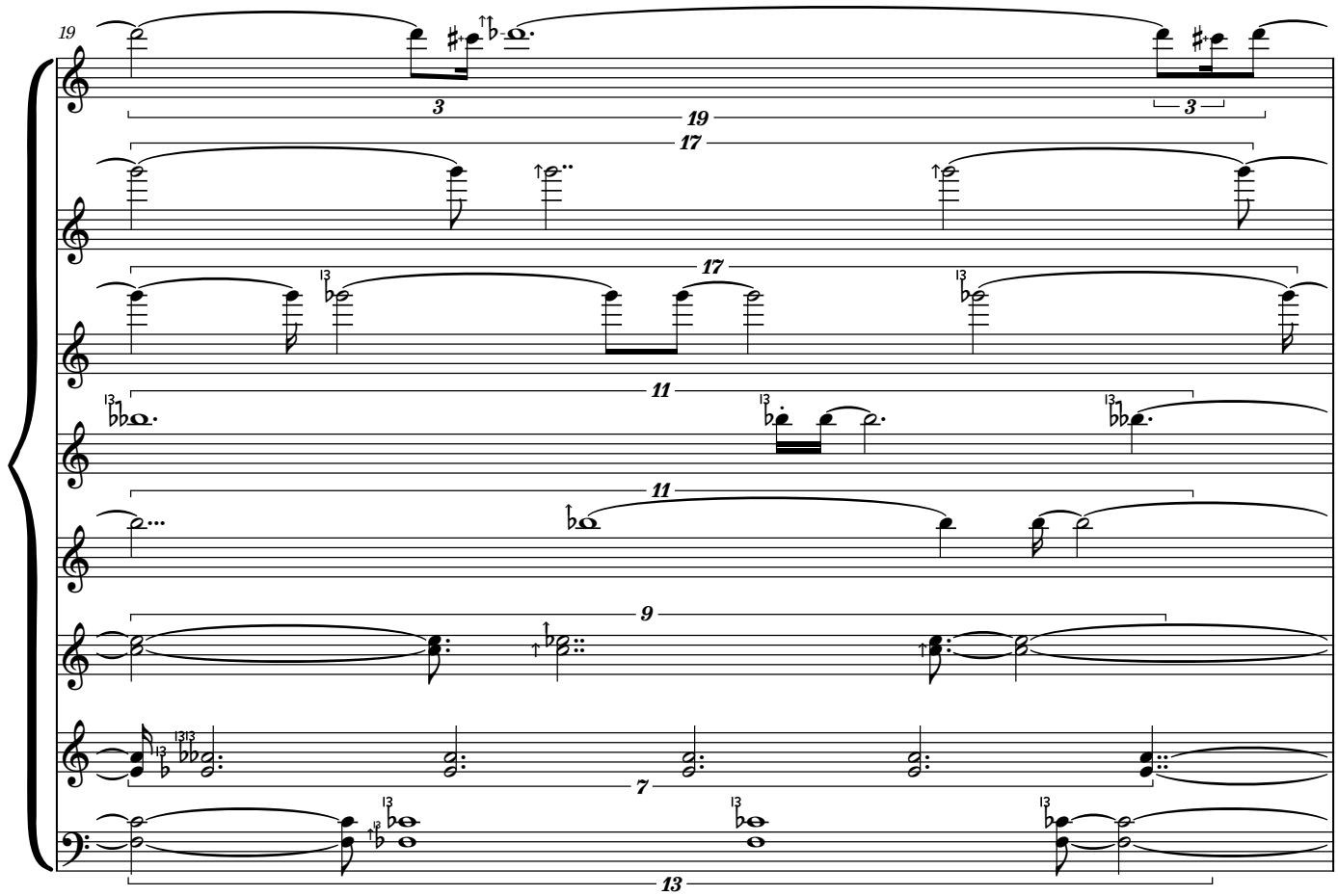

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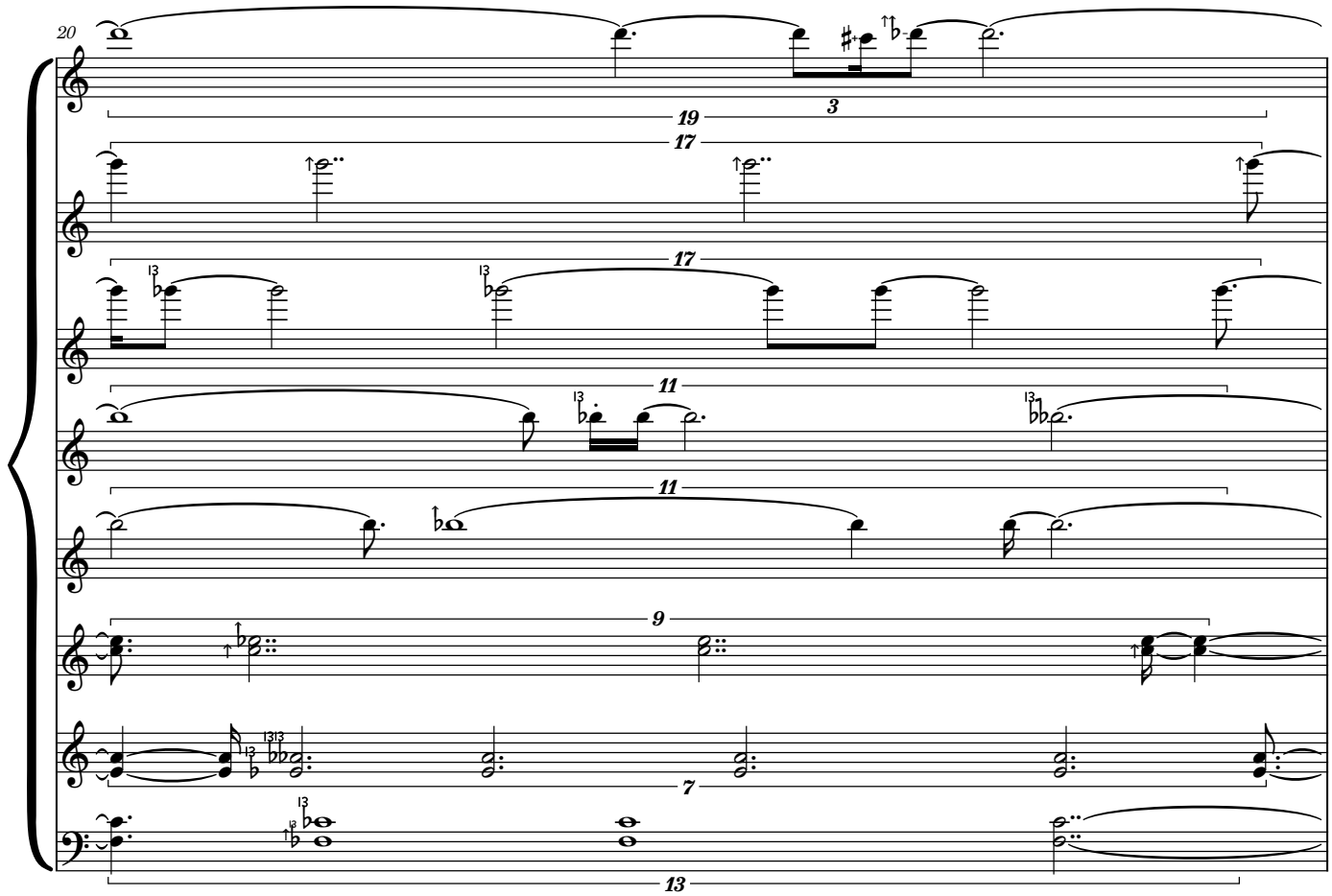

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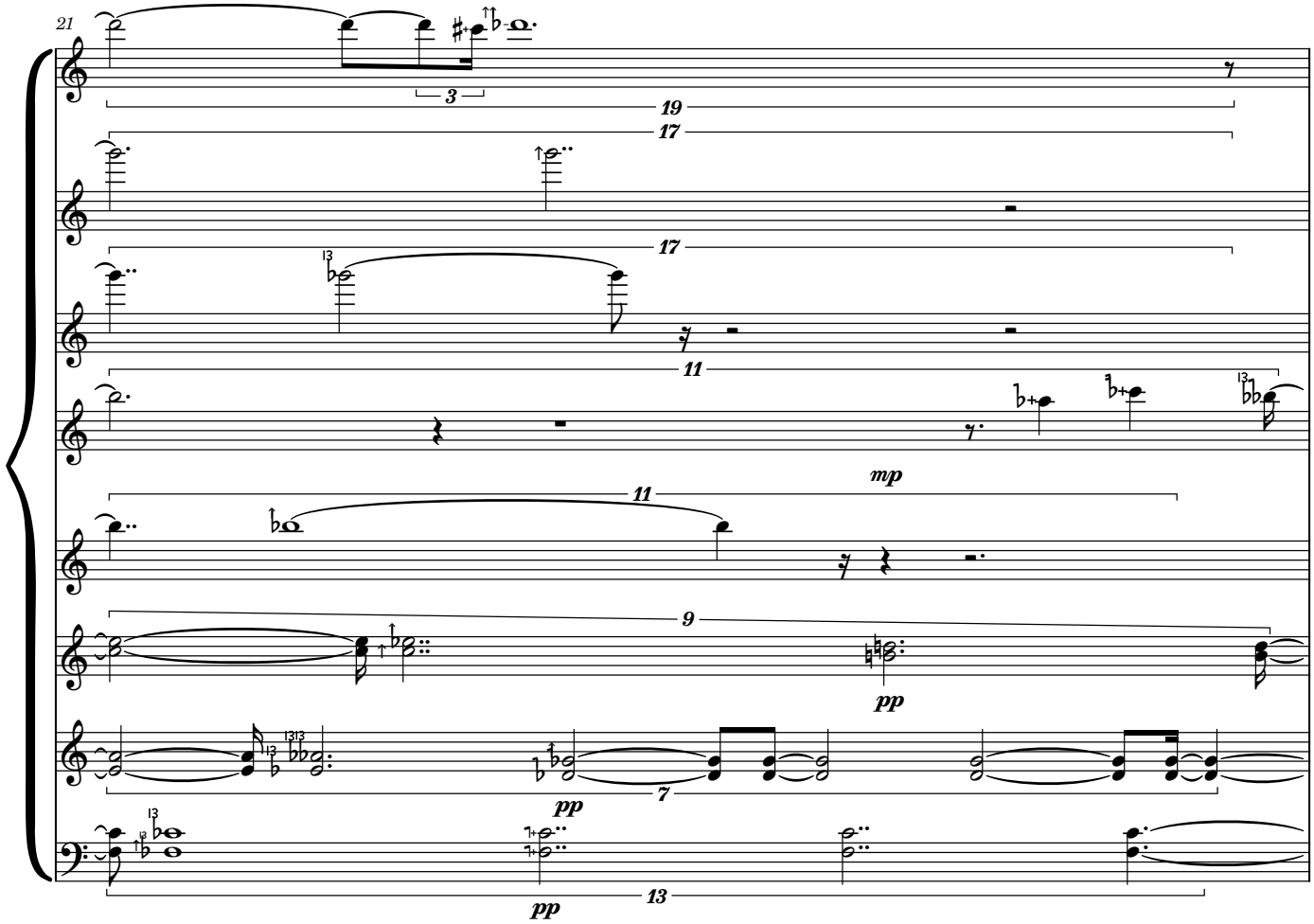

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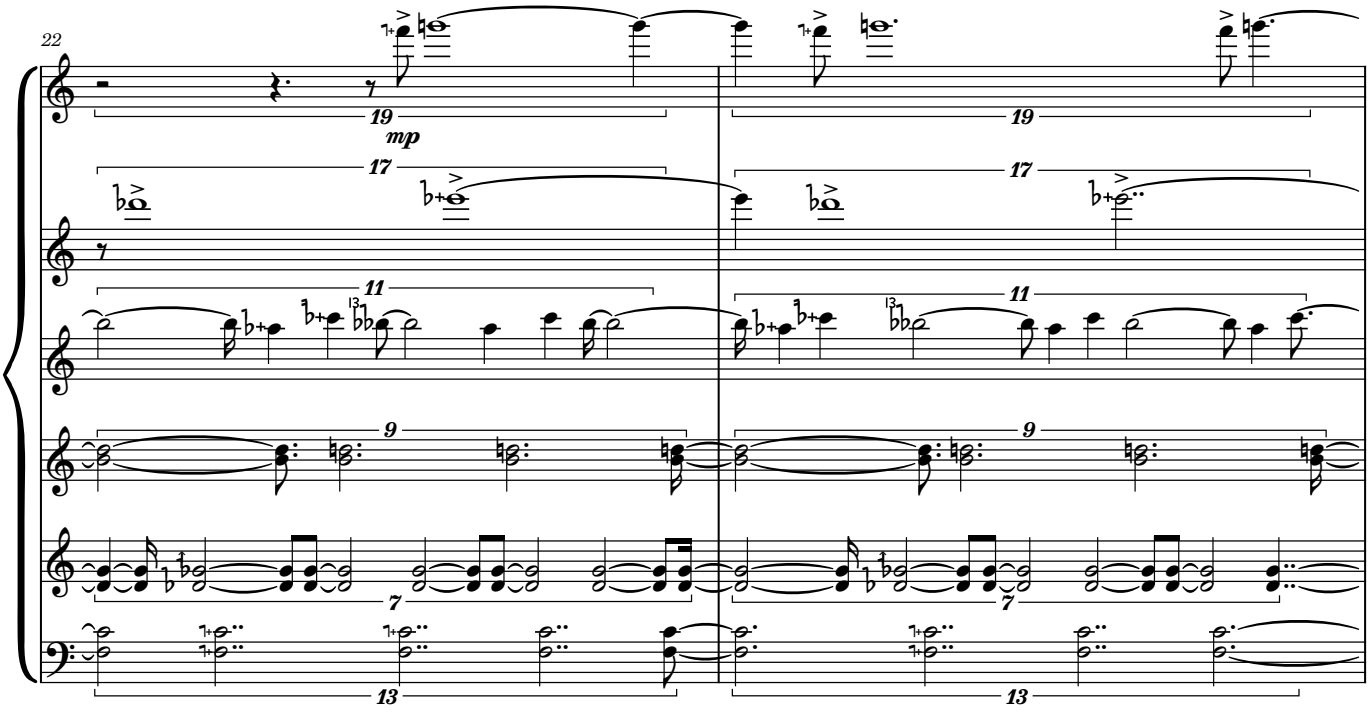

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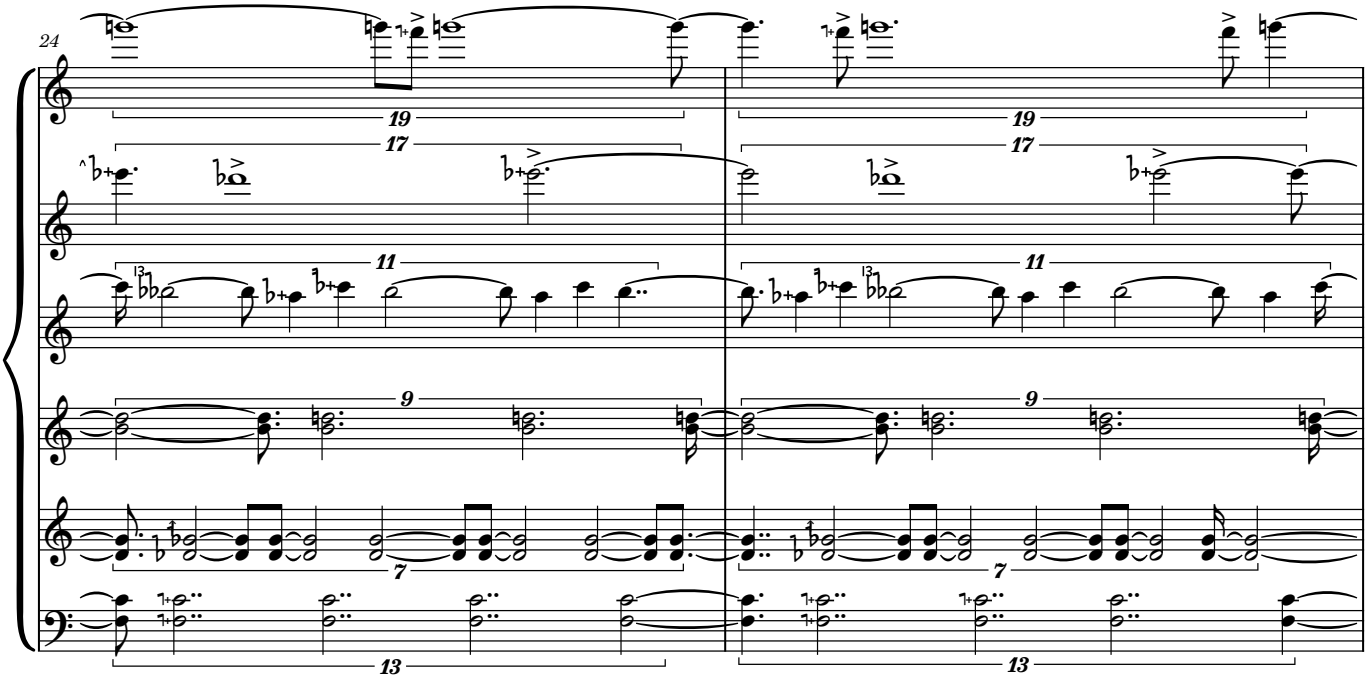

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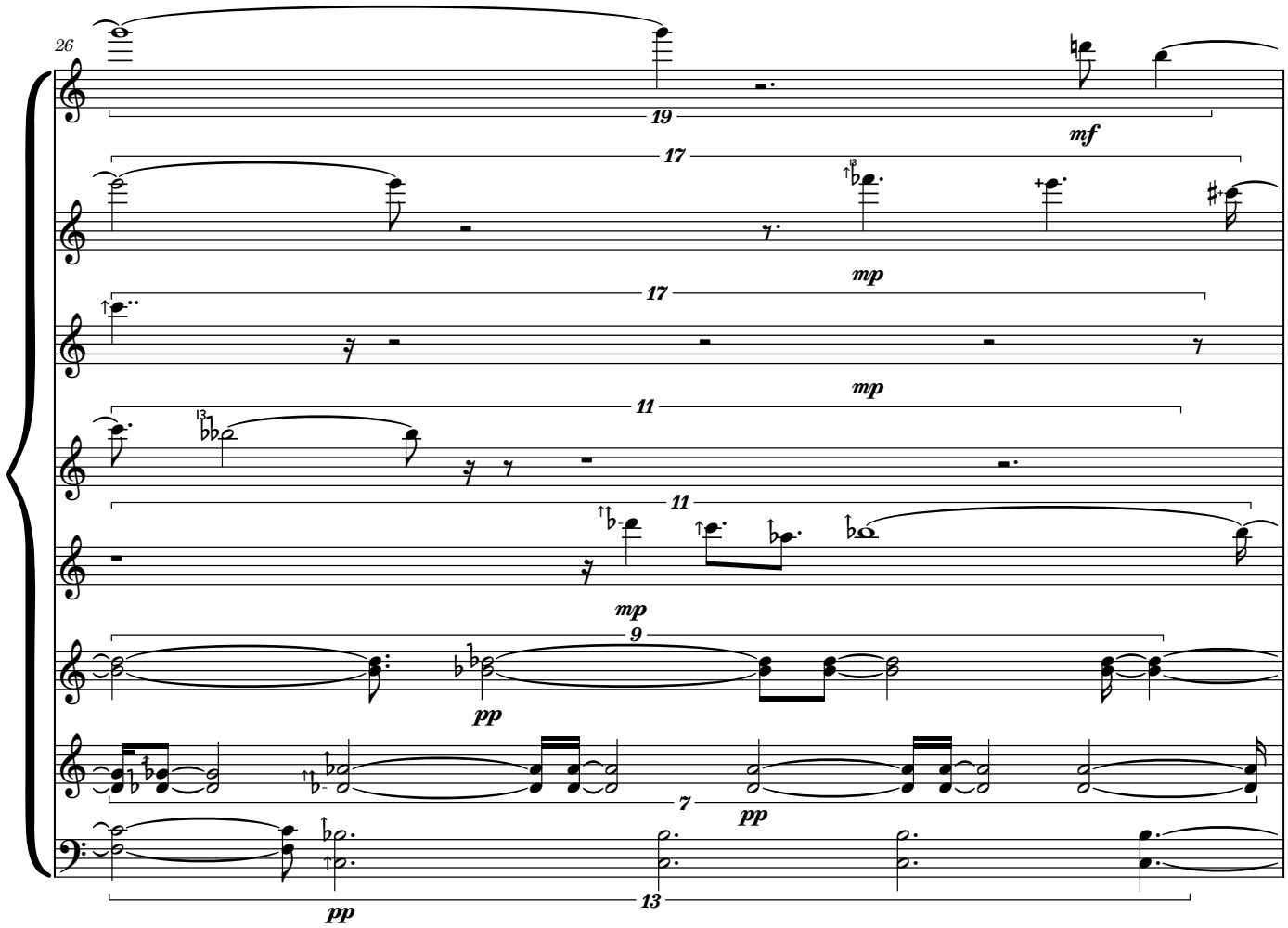

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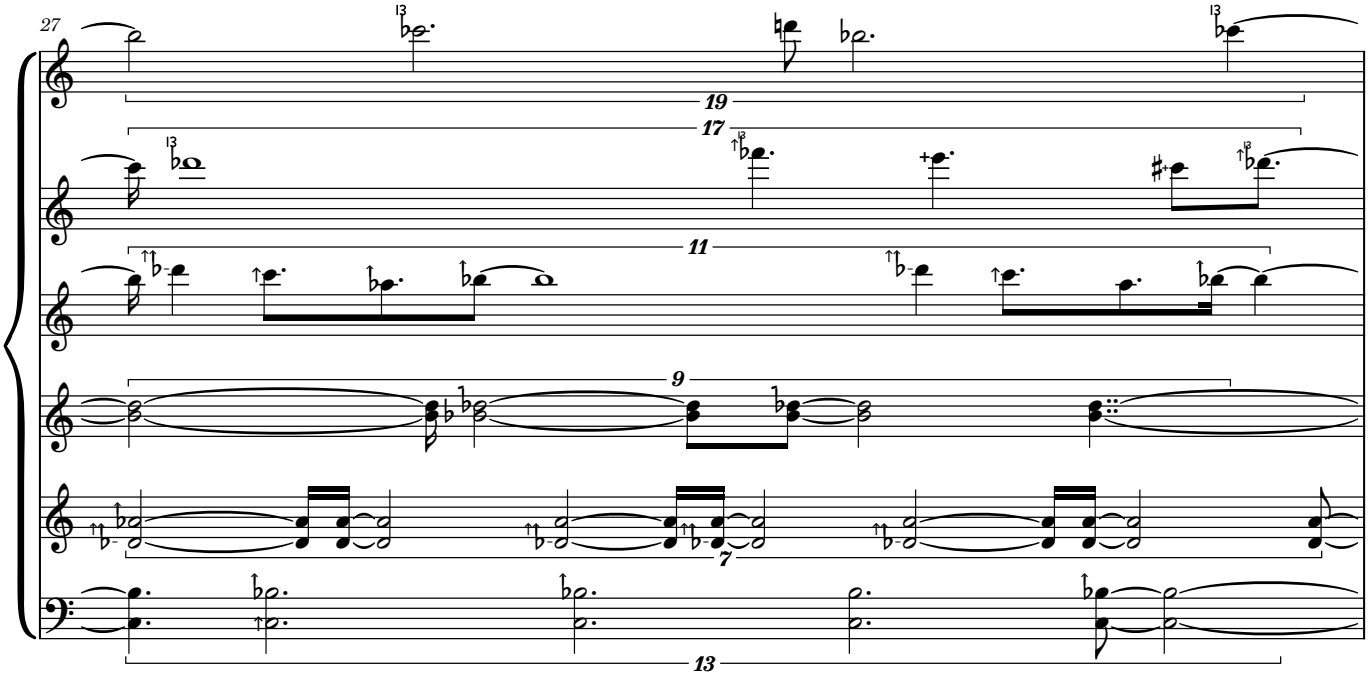

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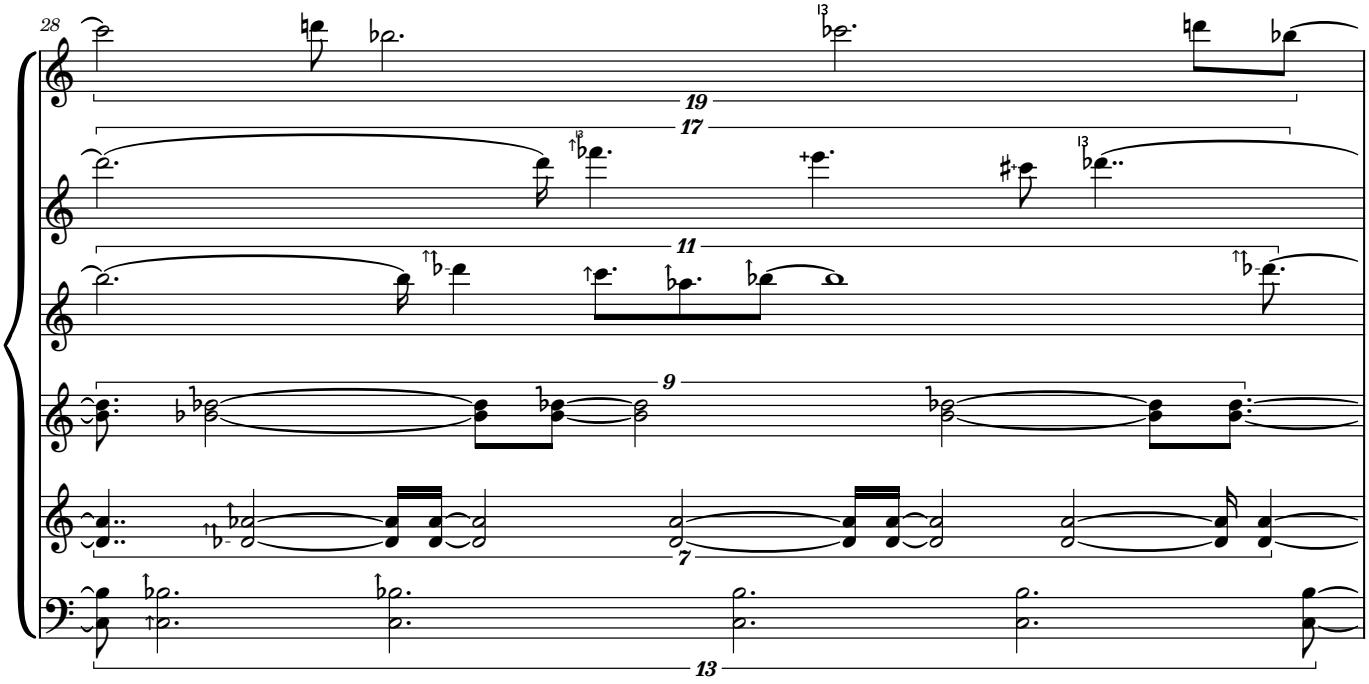

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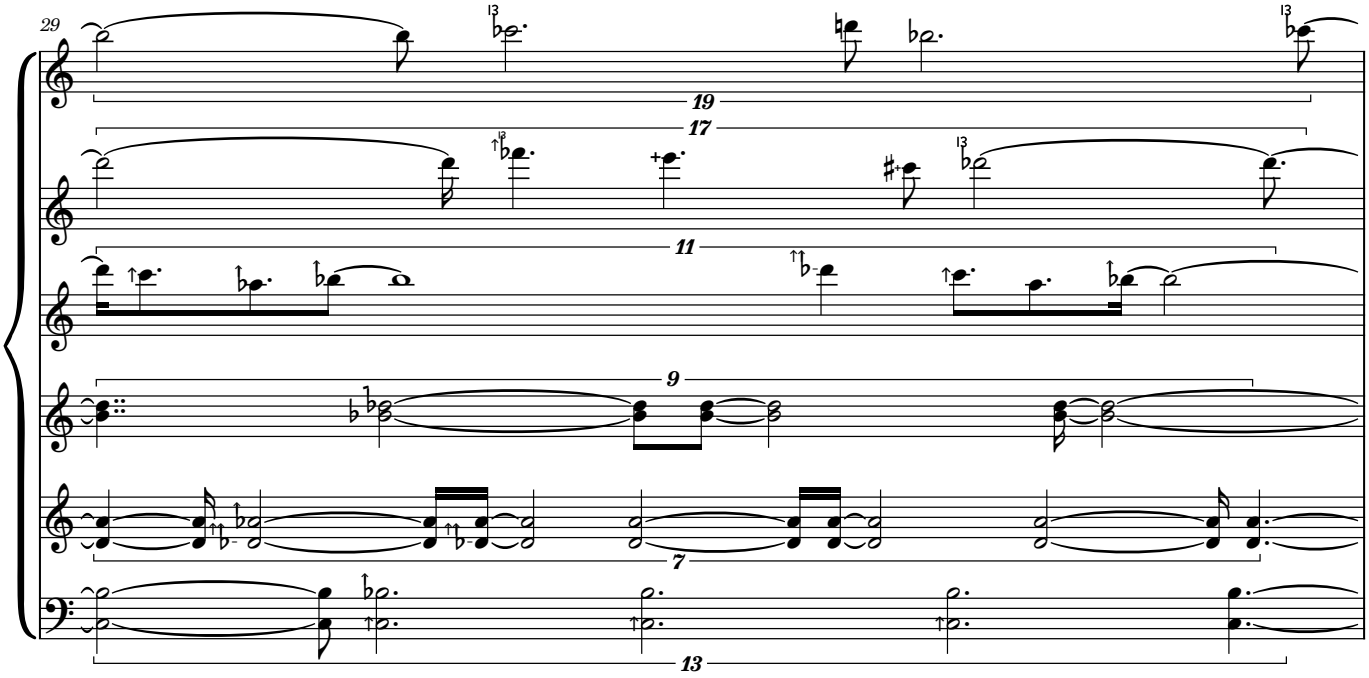

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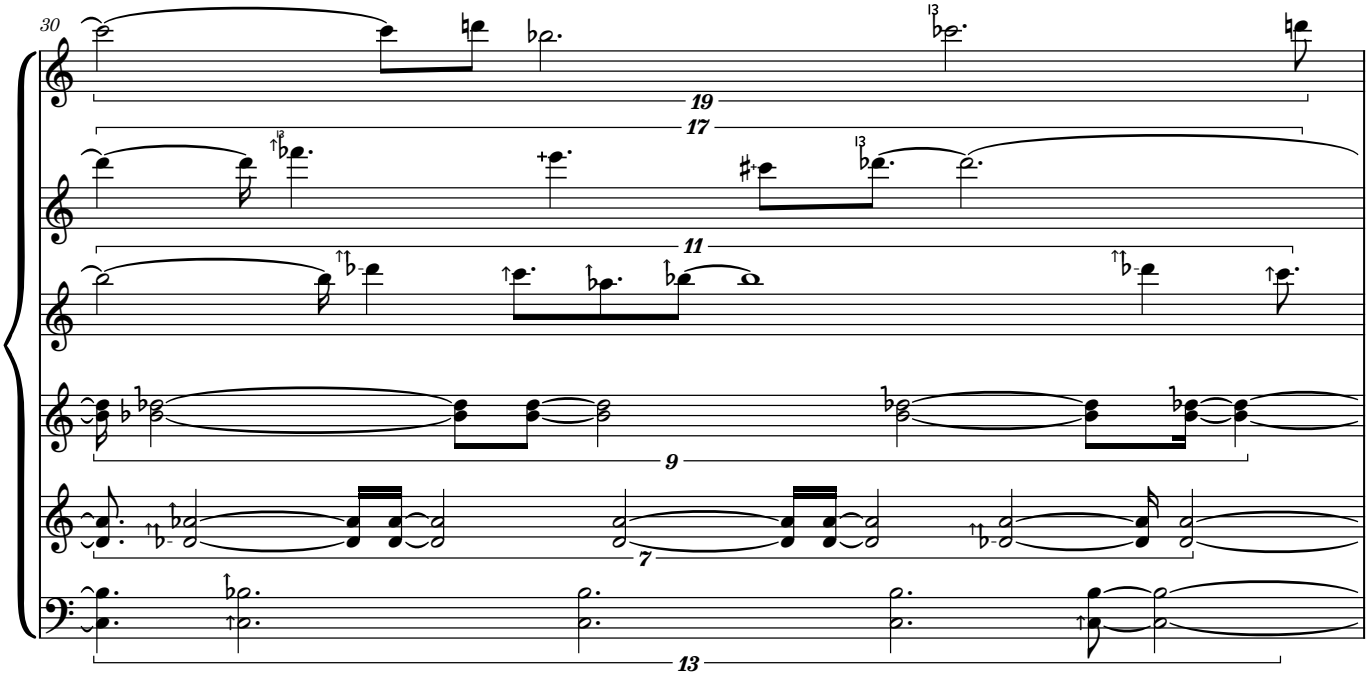

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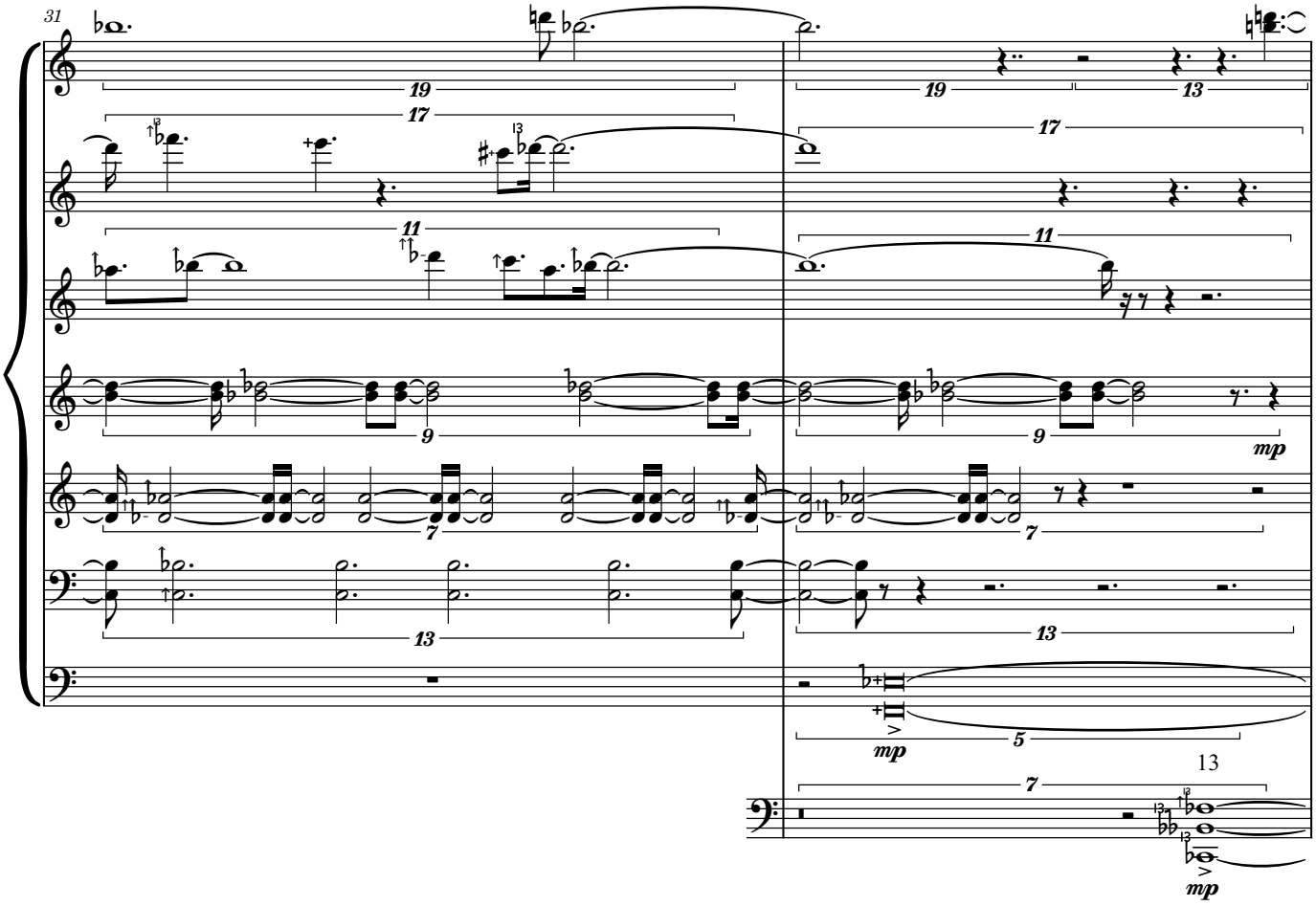

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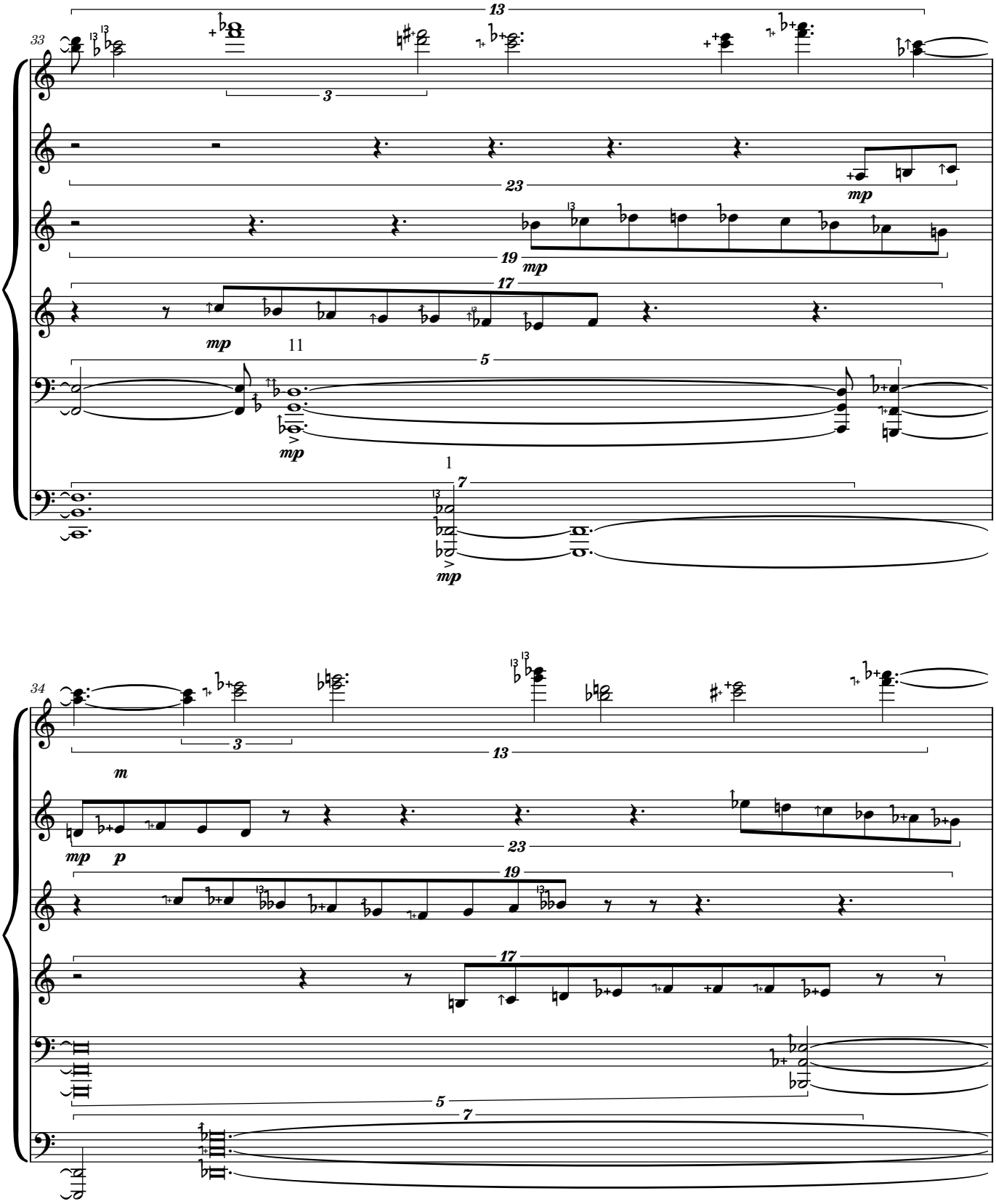

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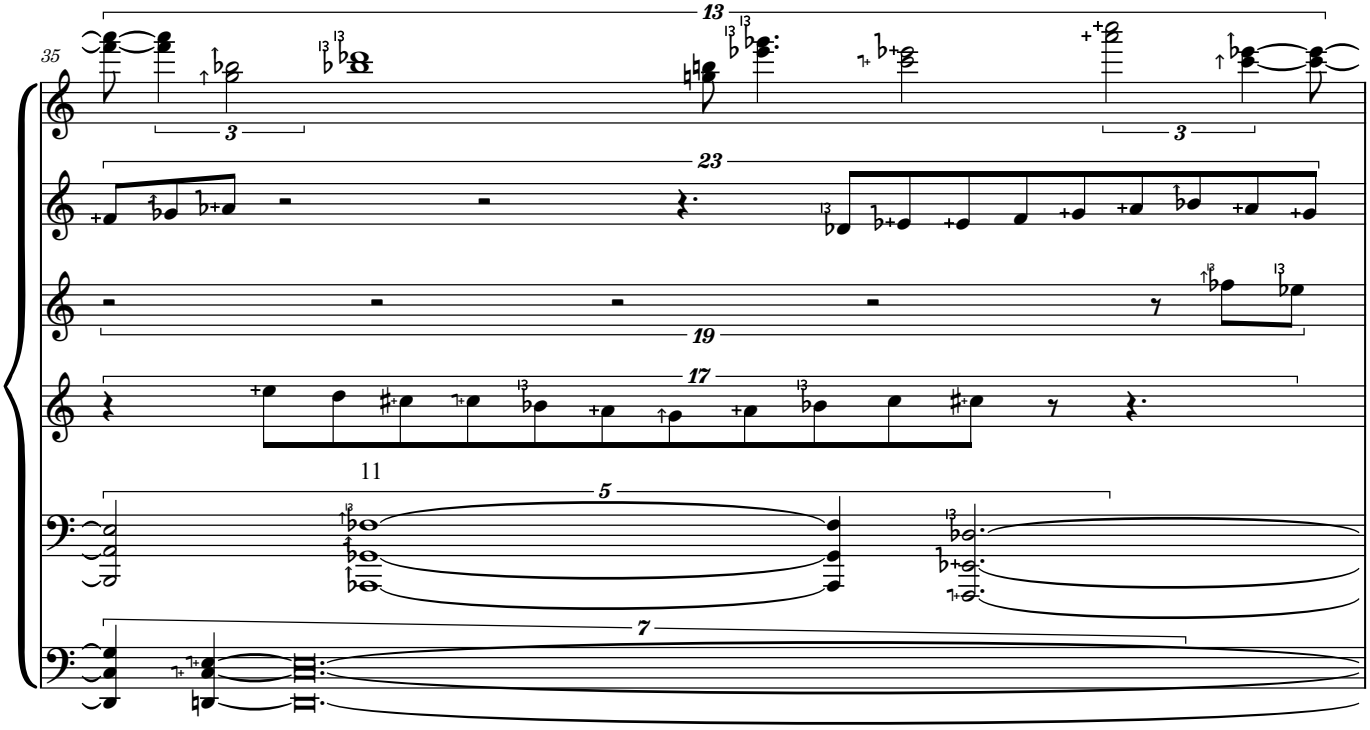

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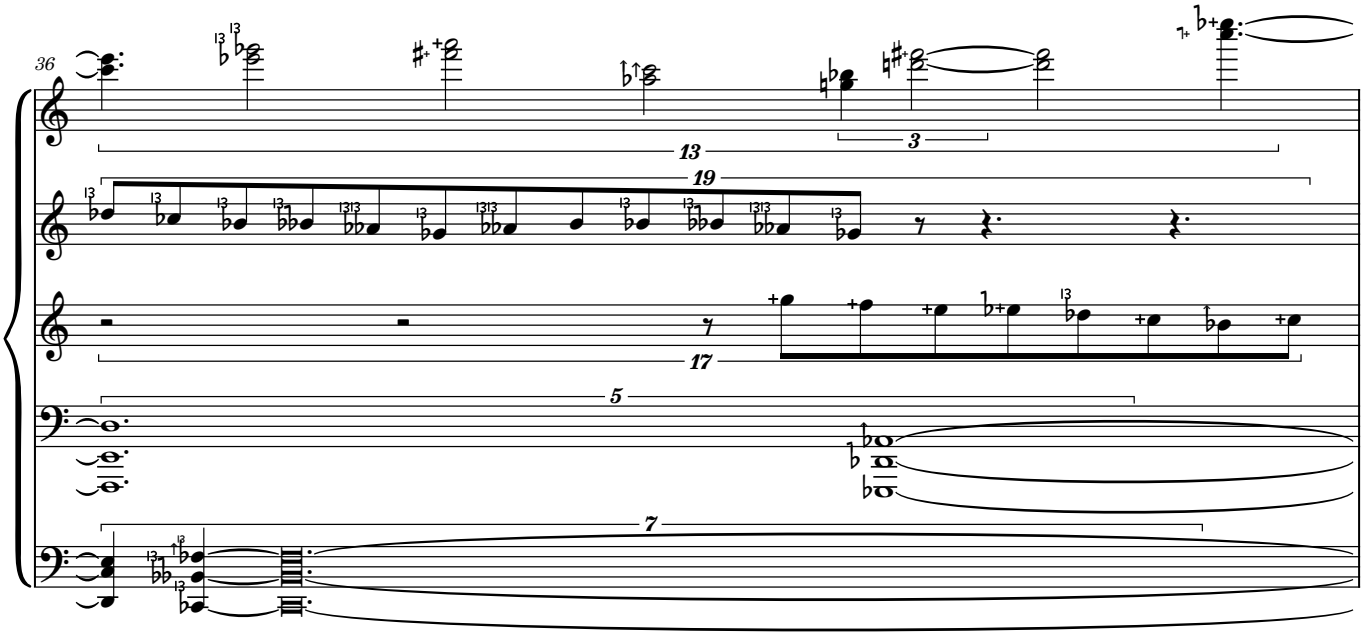

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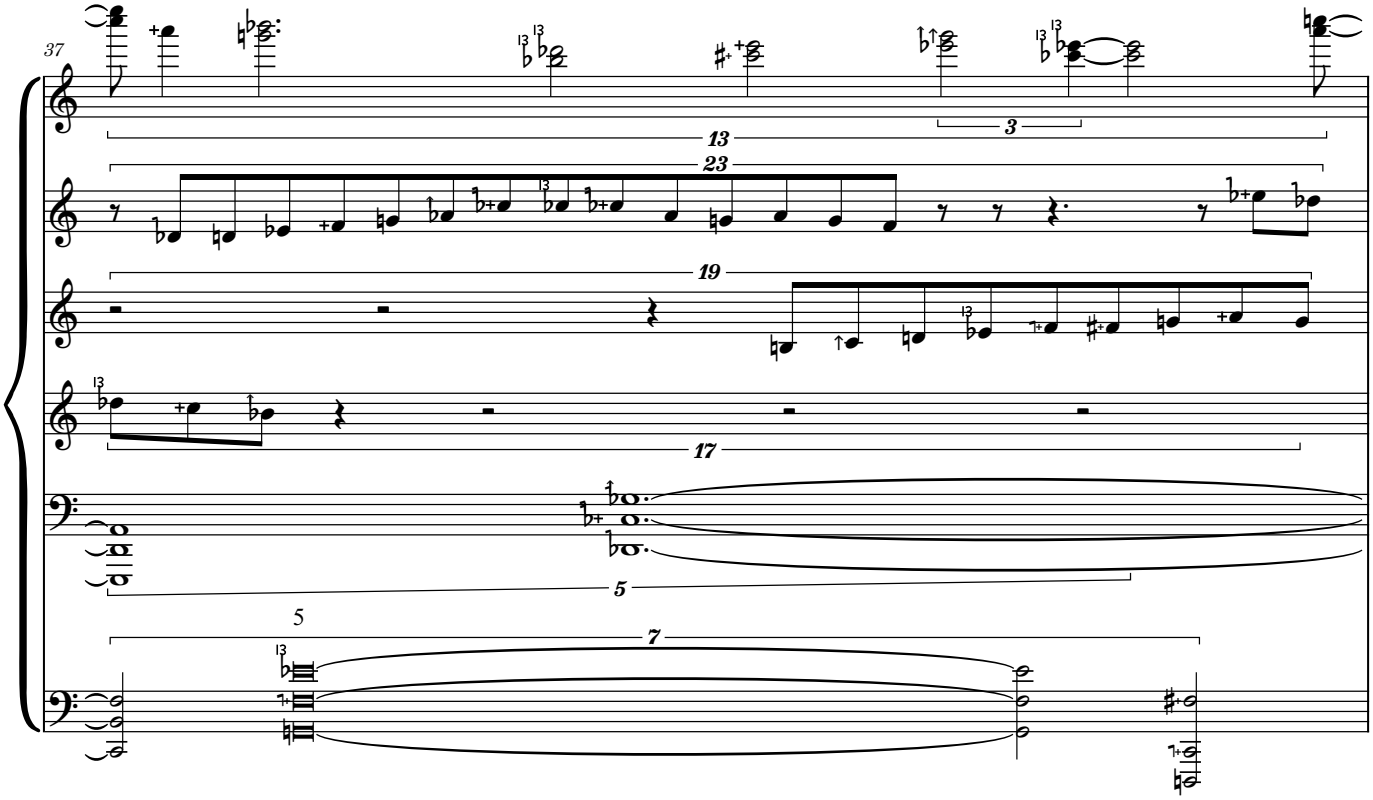

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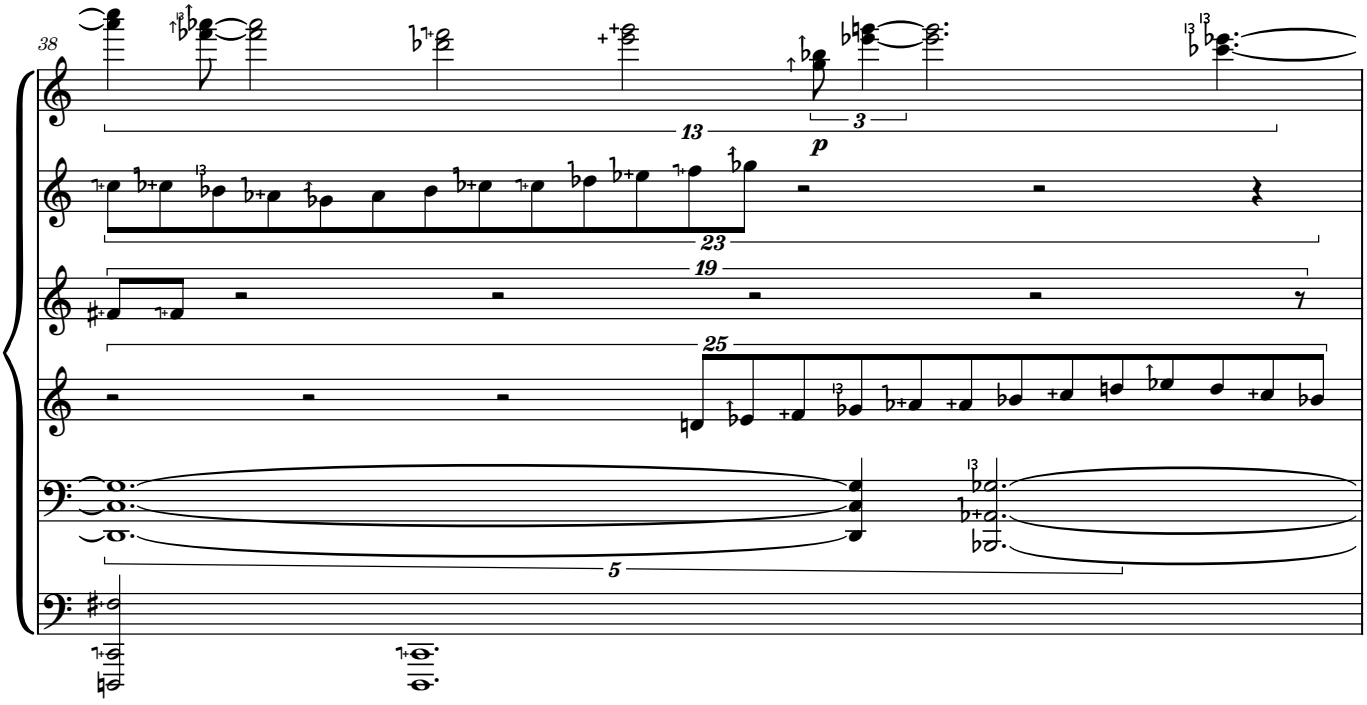

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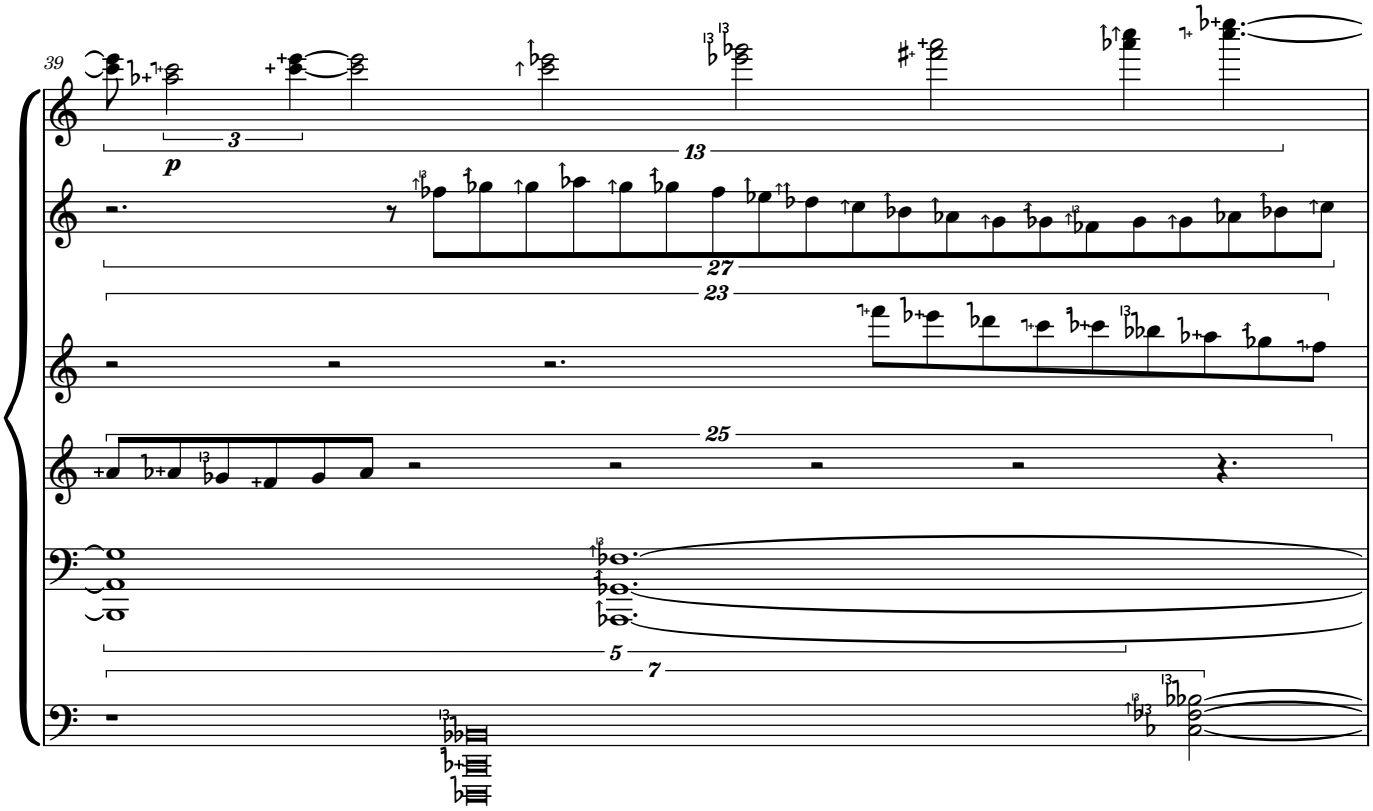

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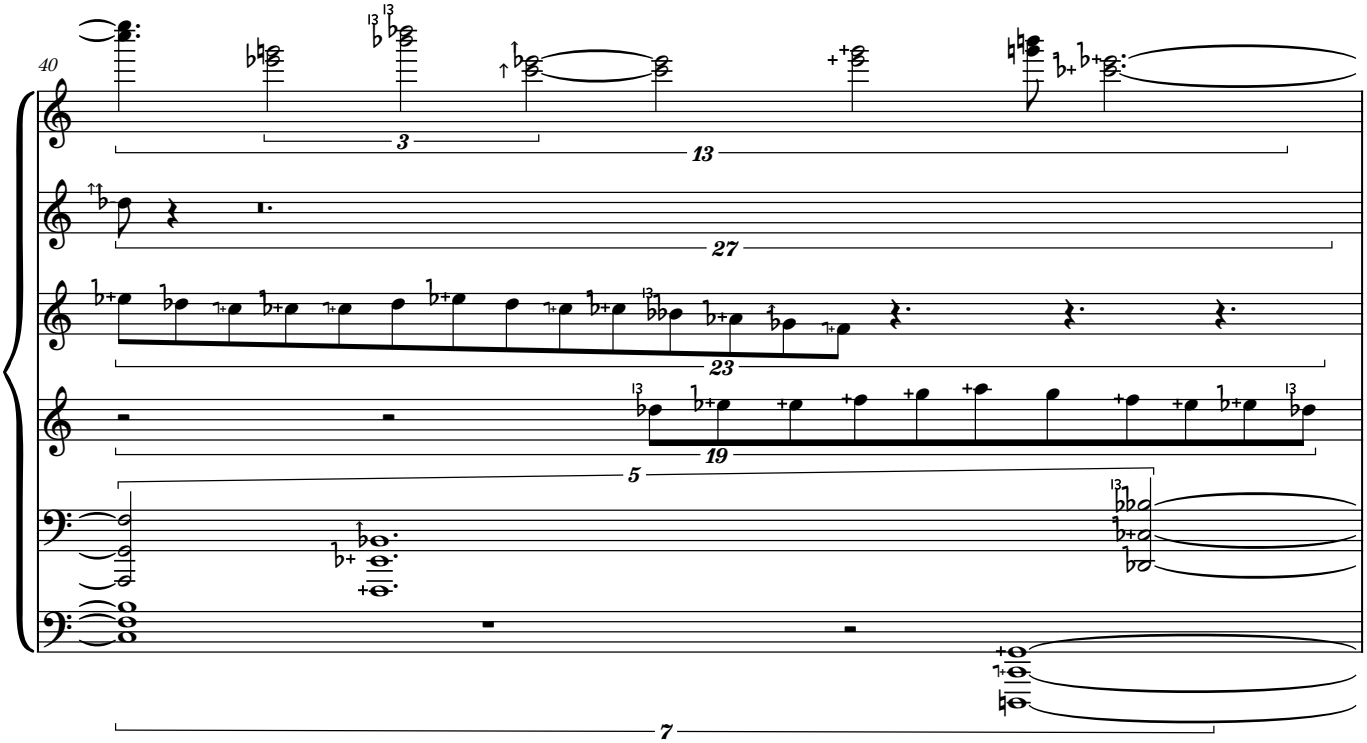

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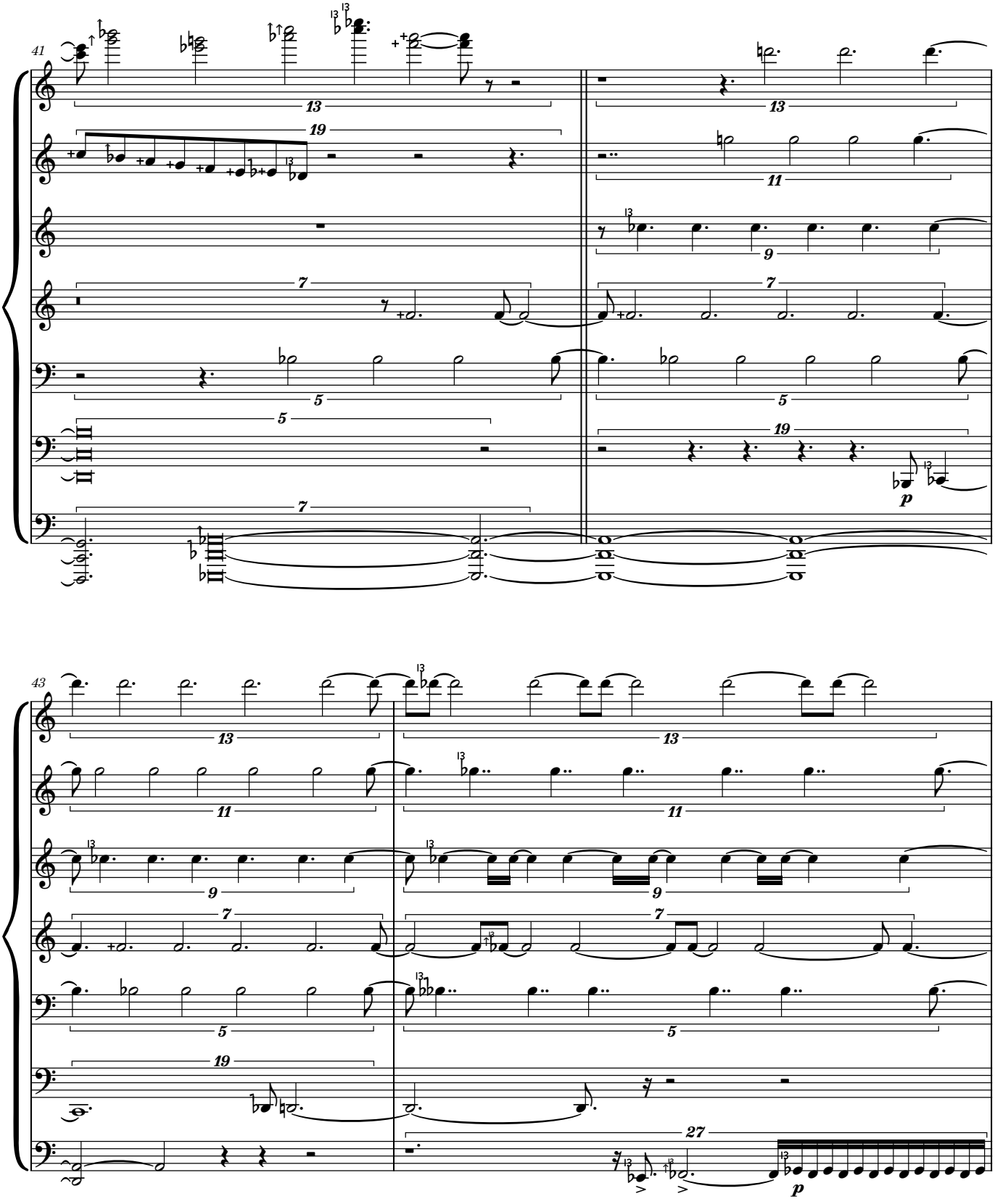

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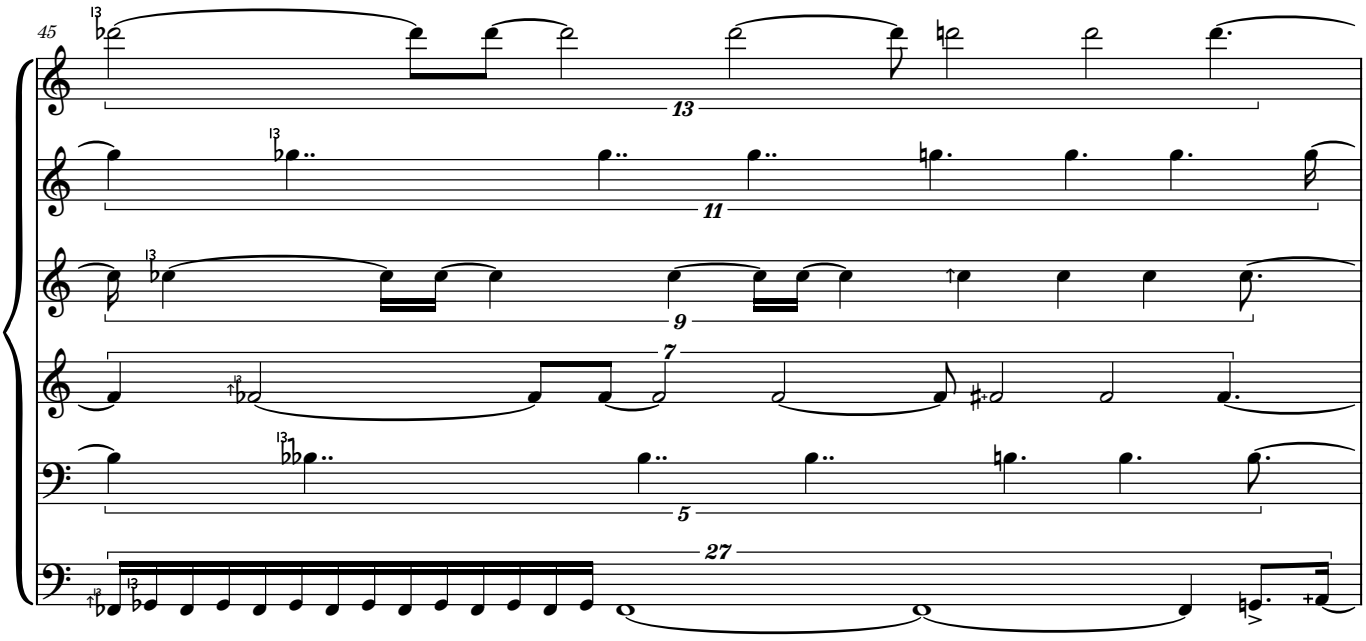

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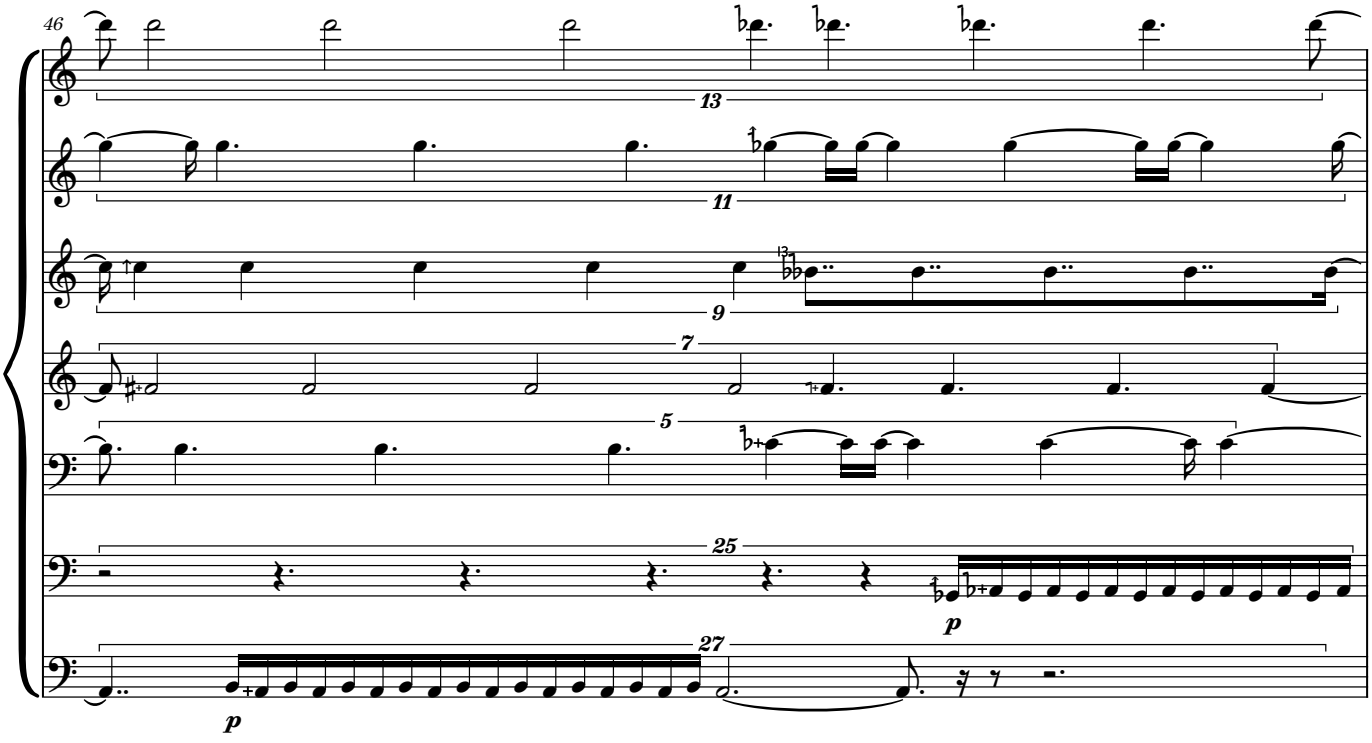

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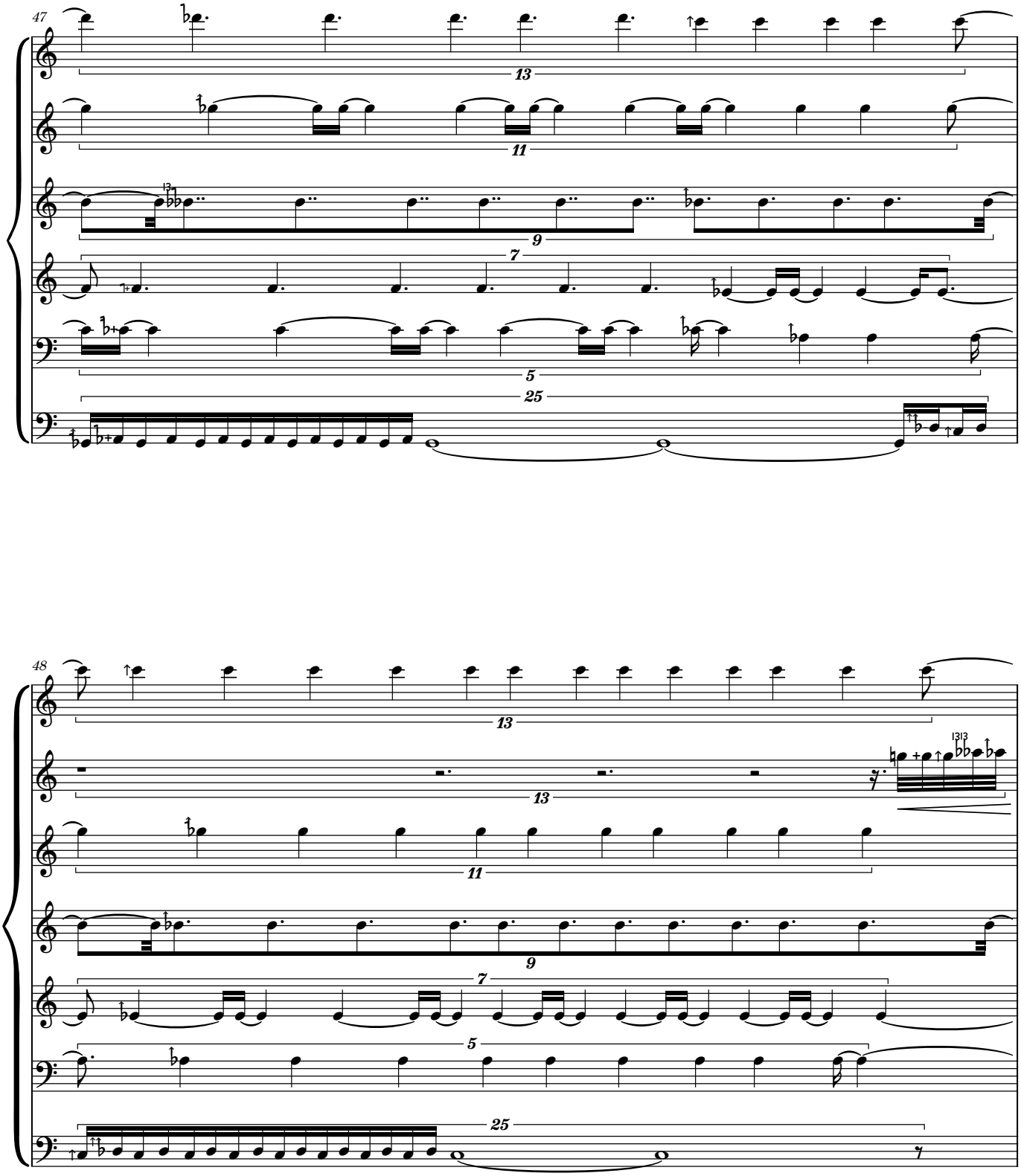

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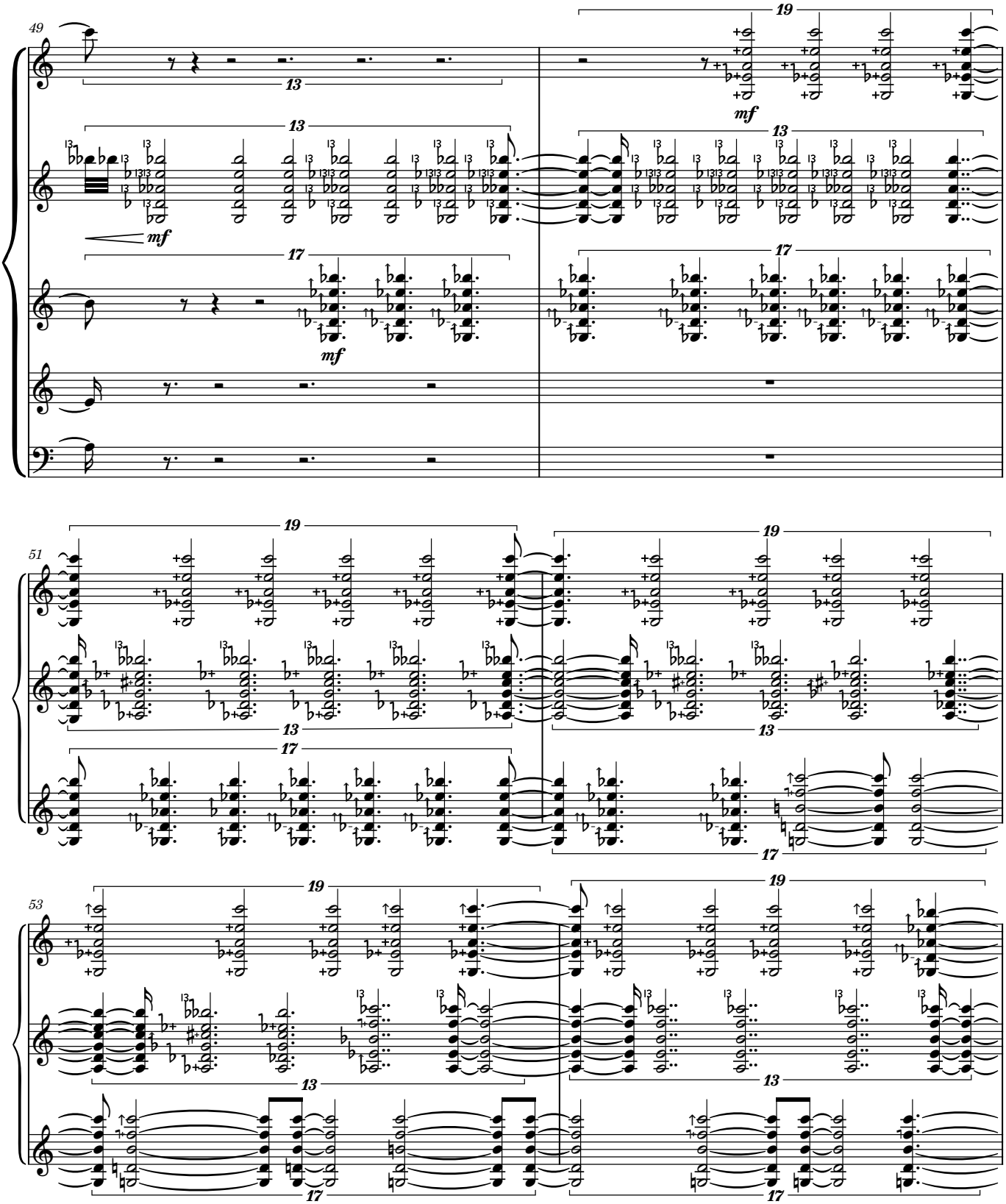

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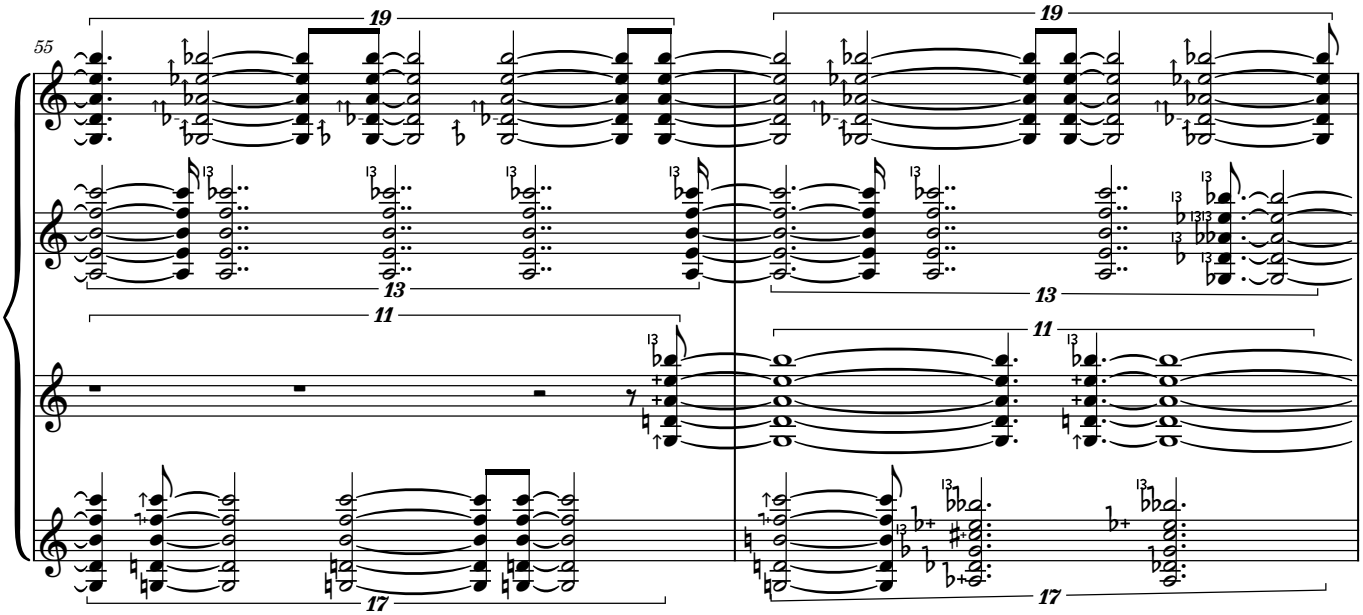

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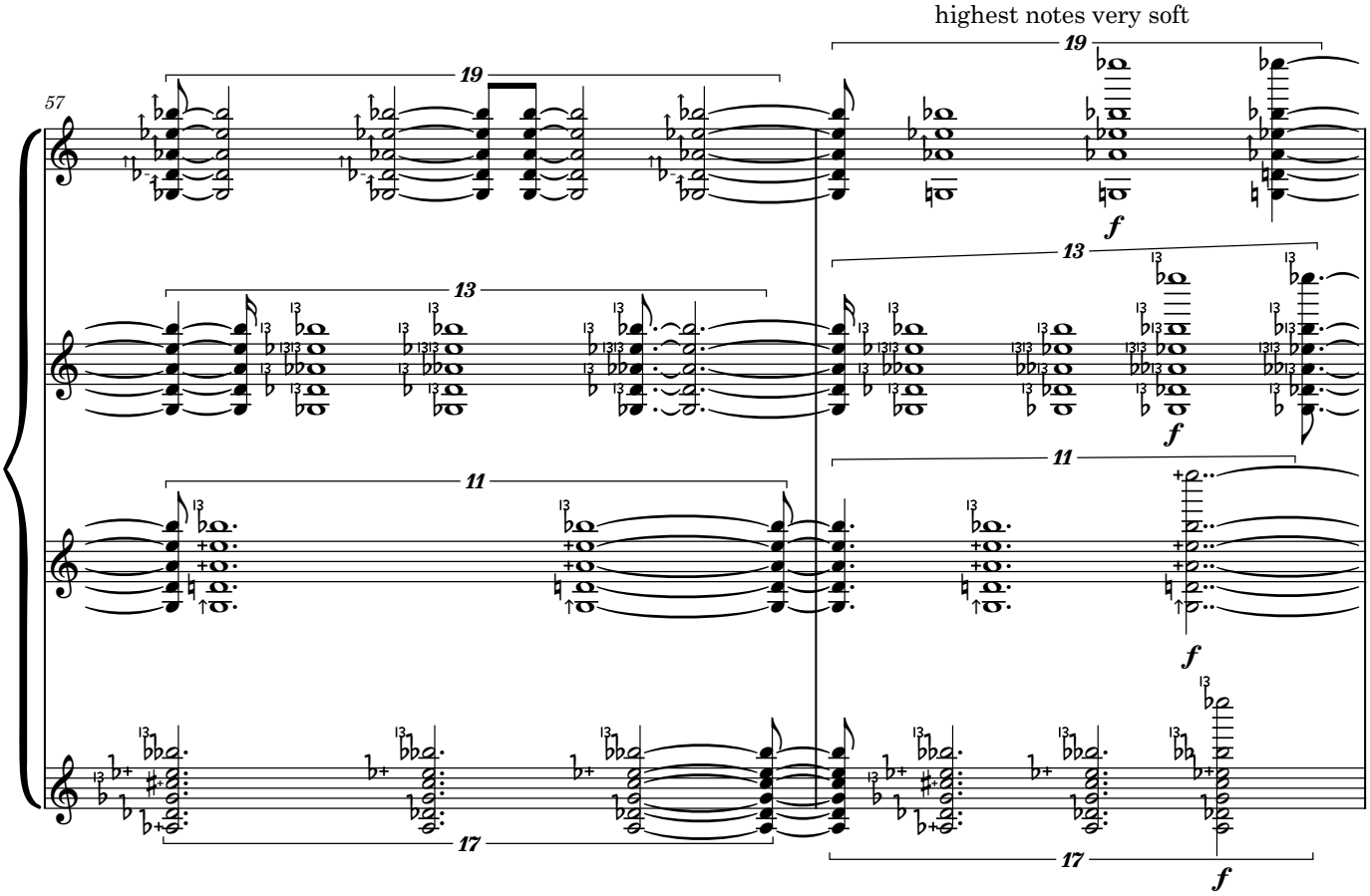

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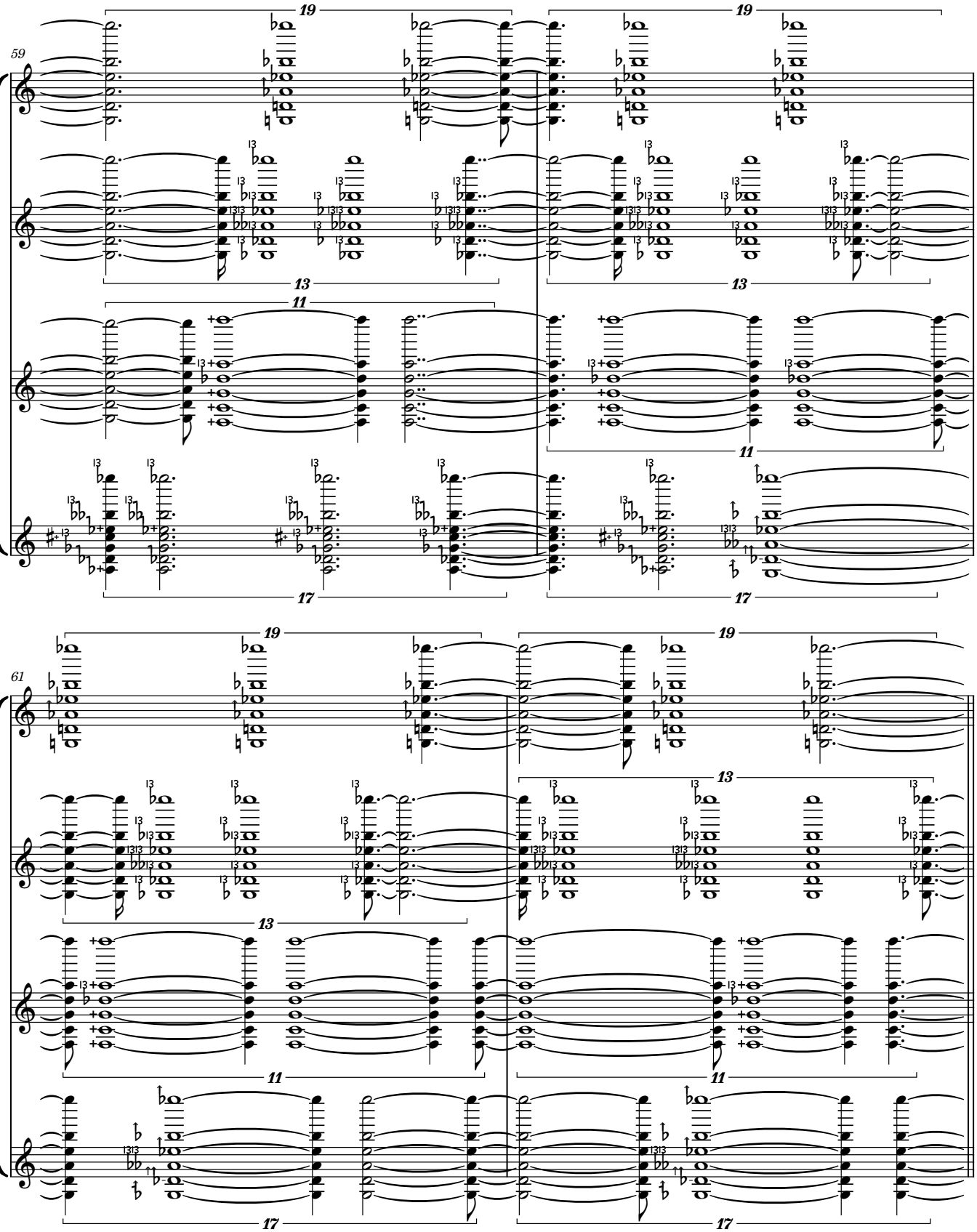

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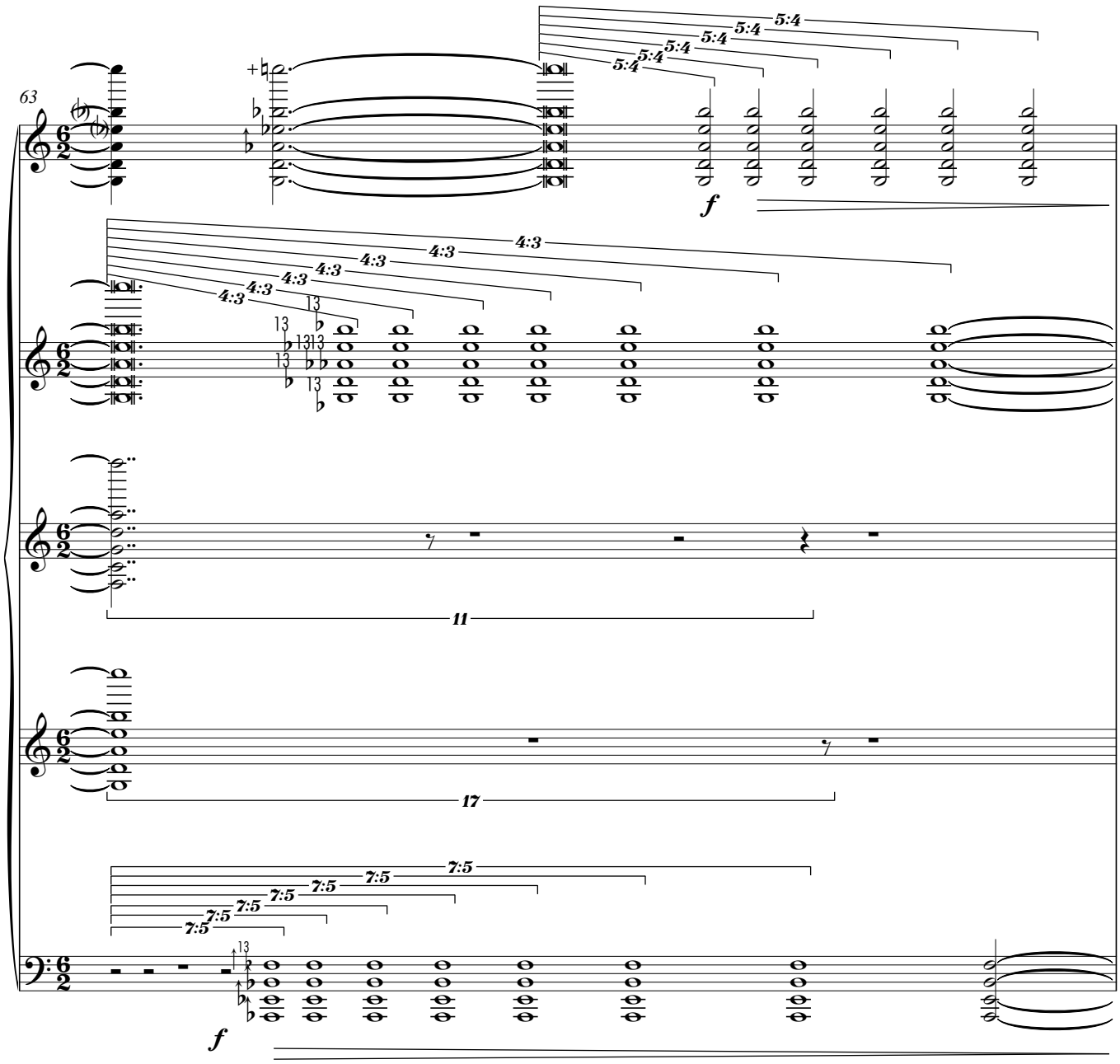

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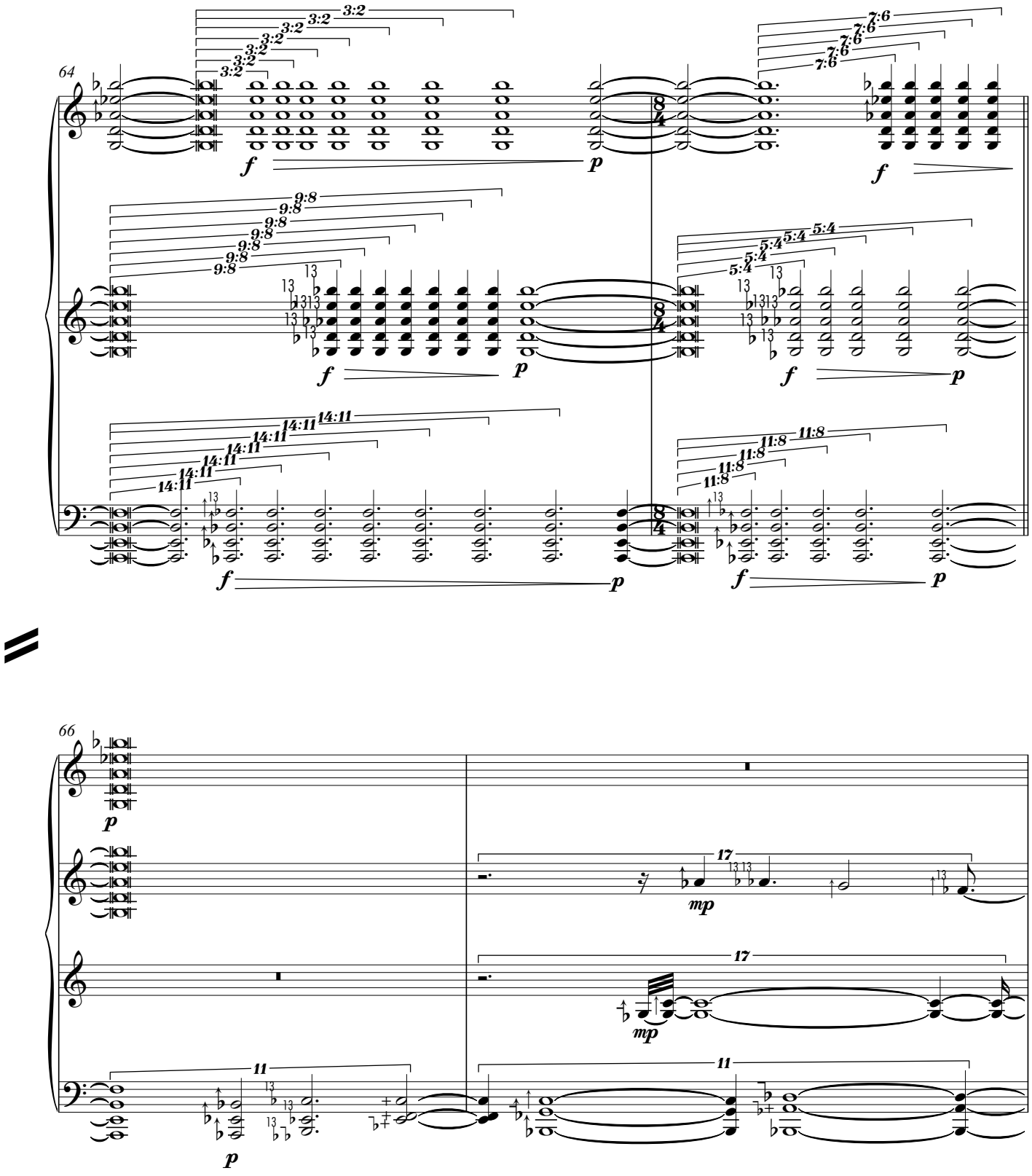

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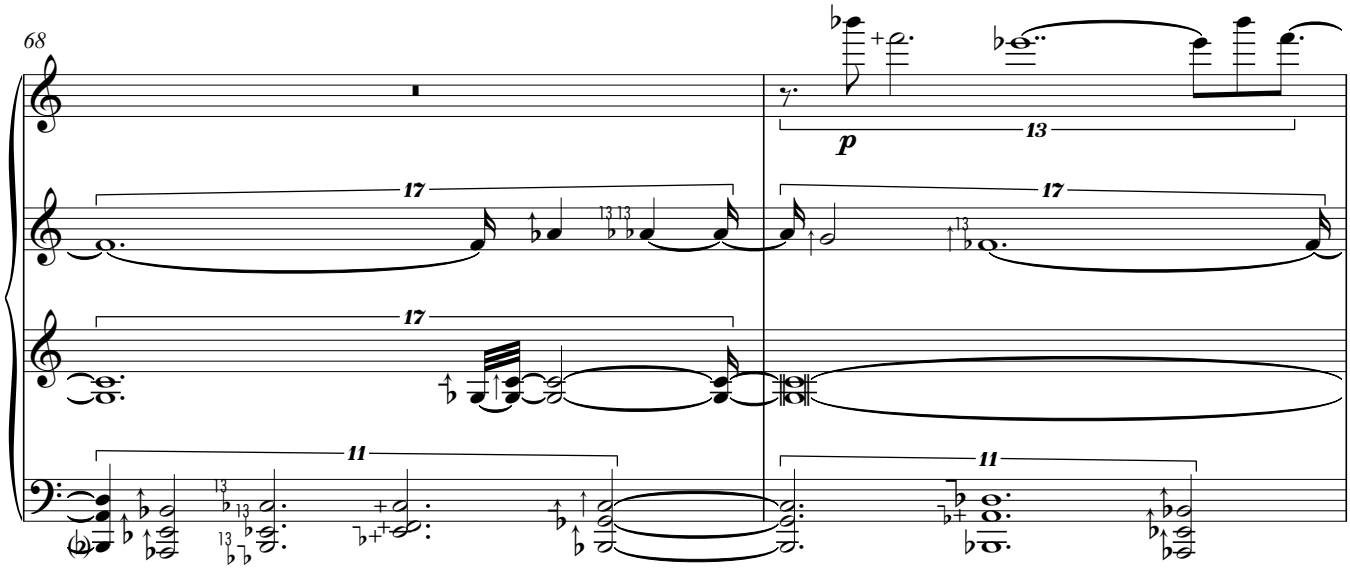

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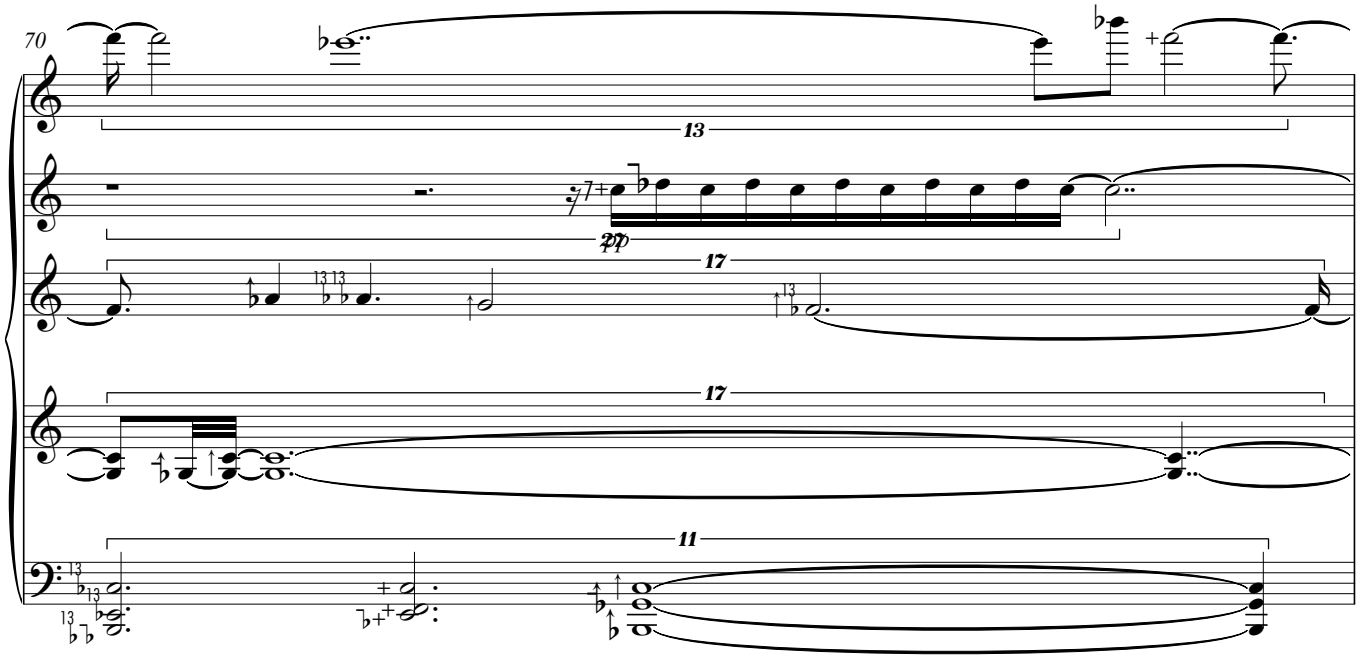

highest notes very soft
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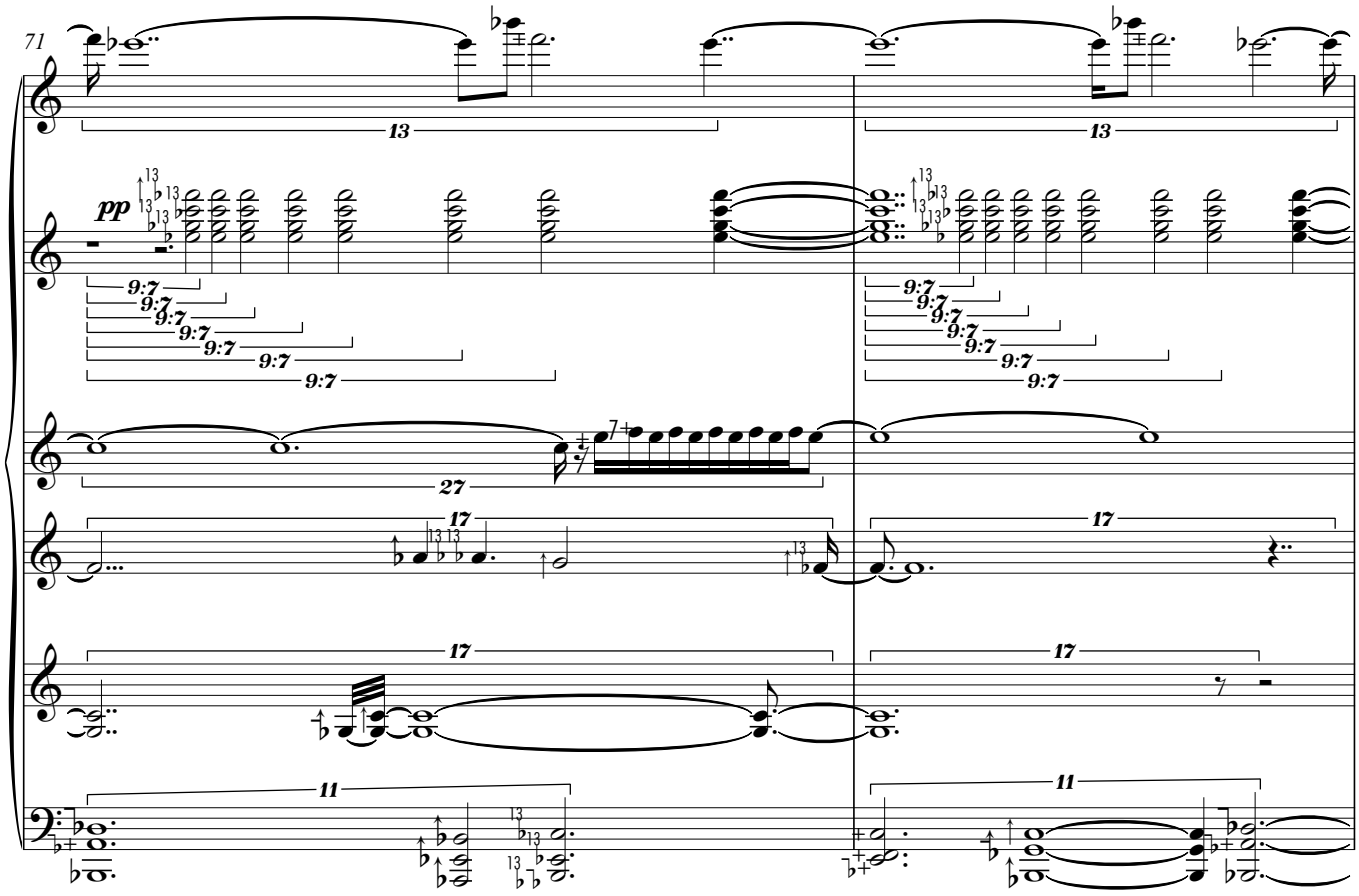

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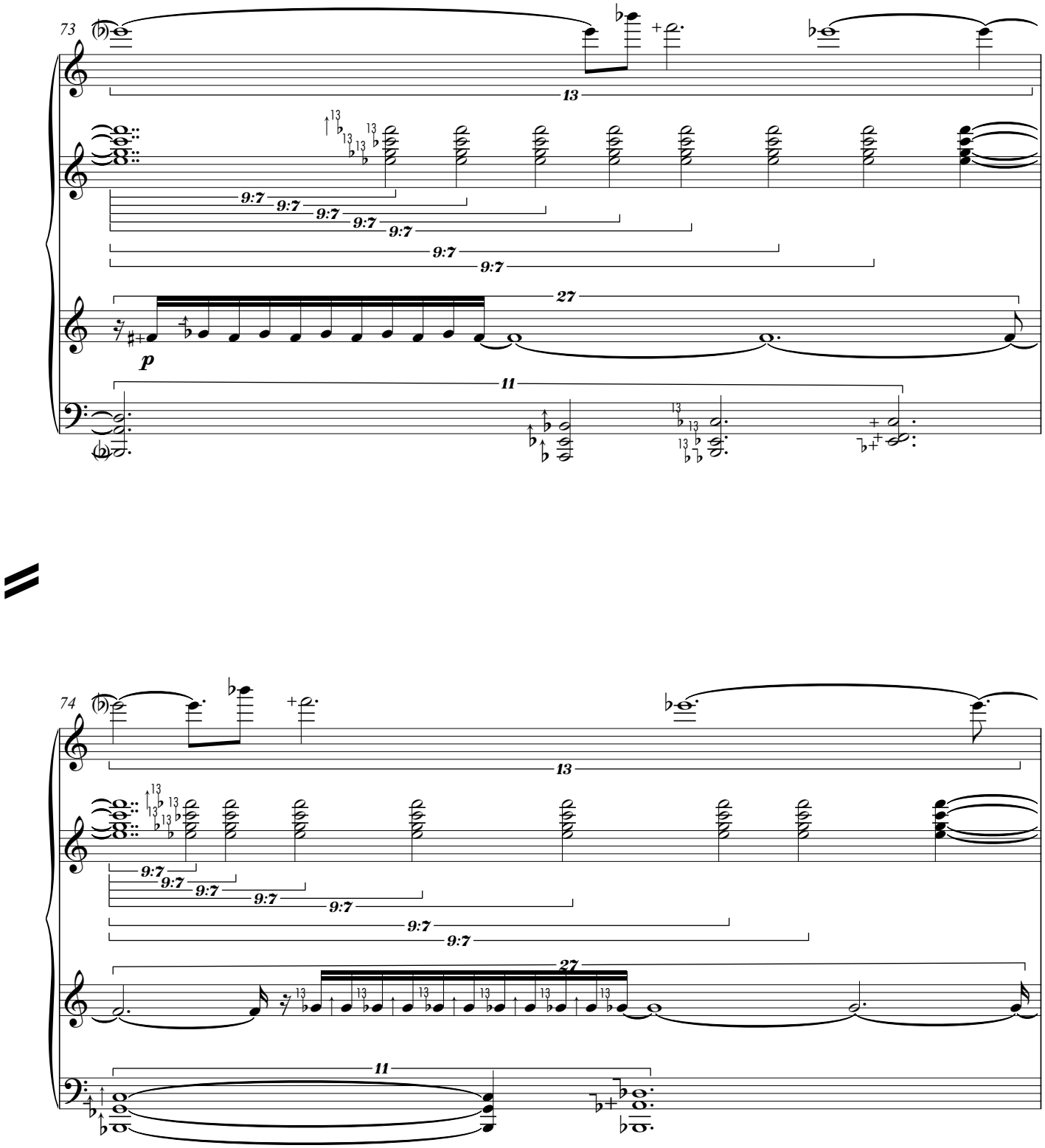

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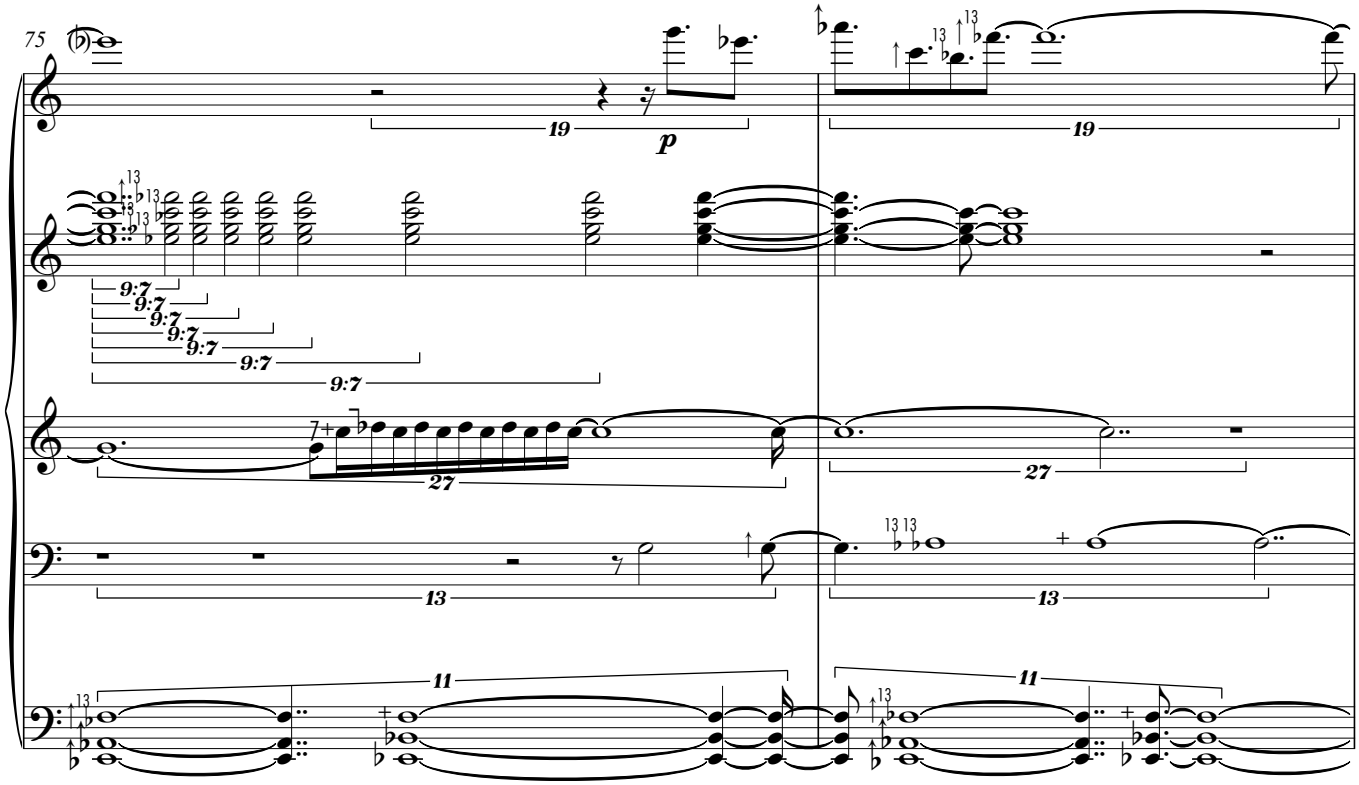

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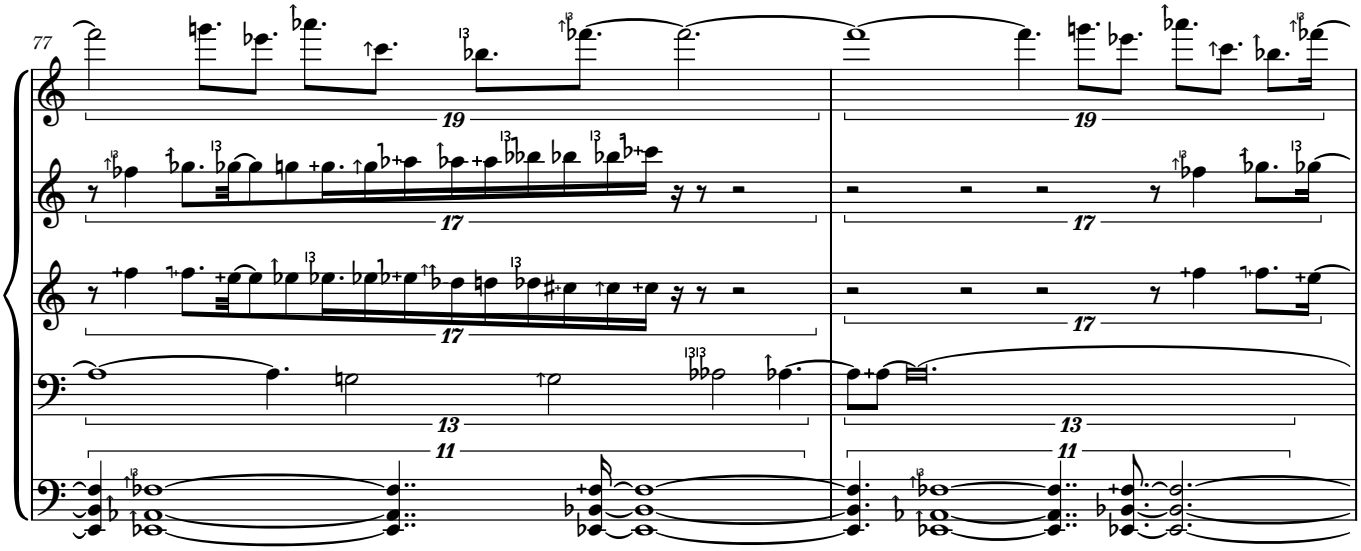

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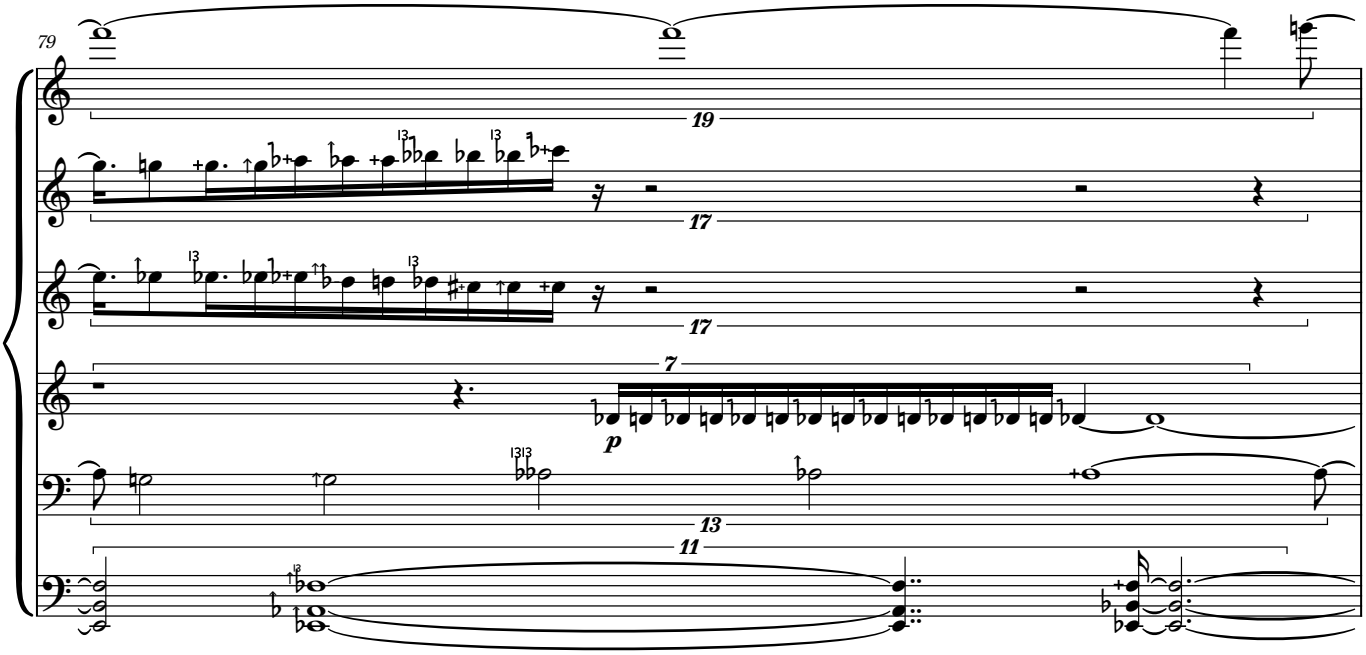

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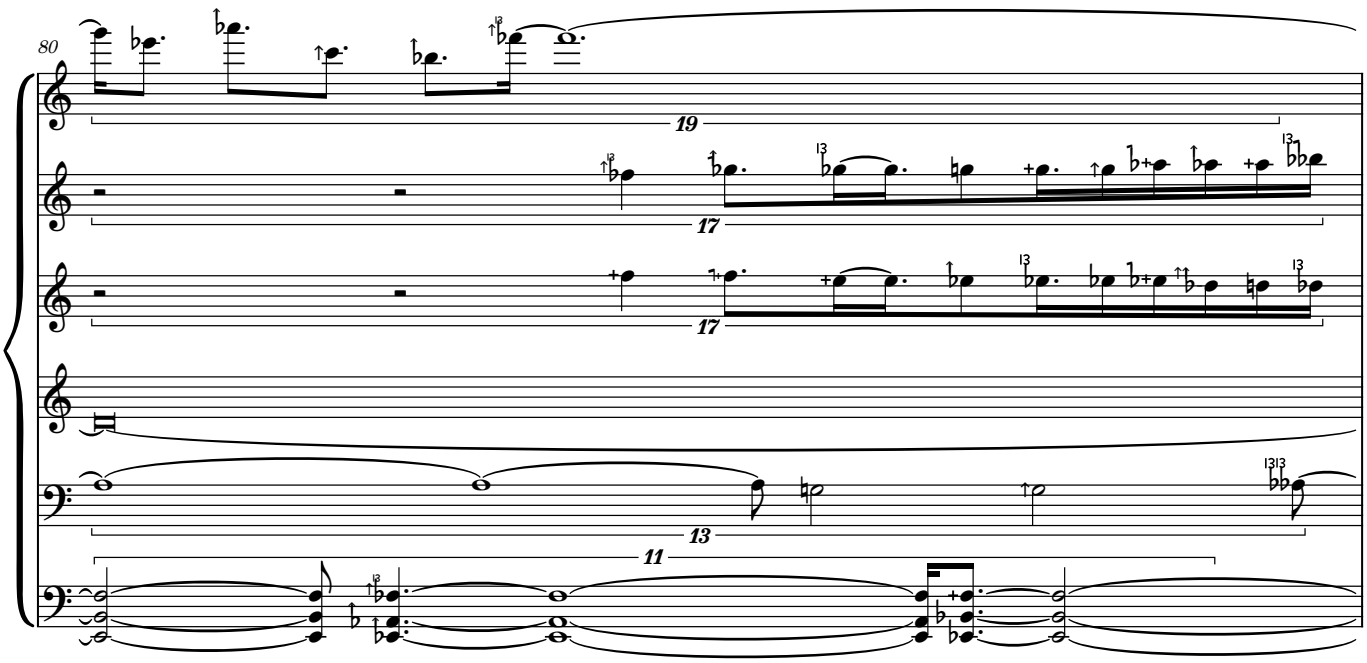

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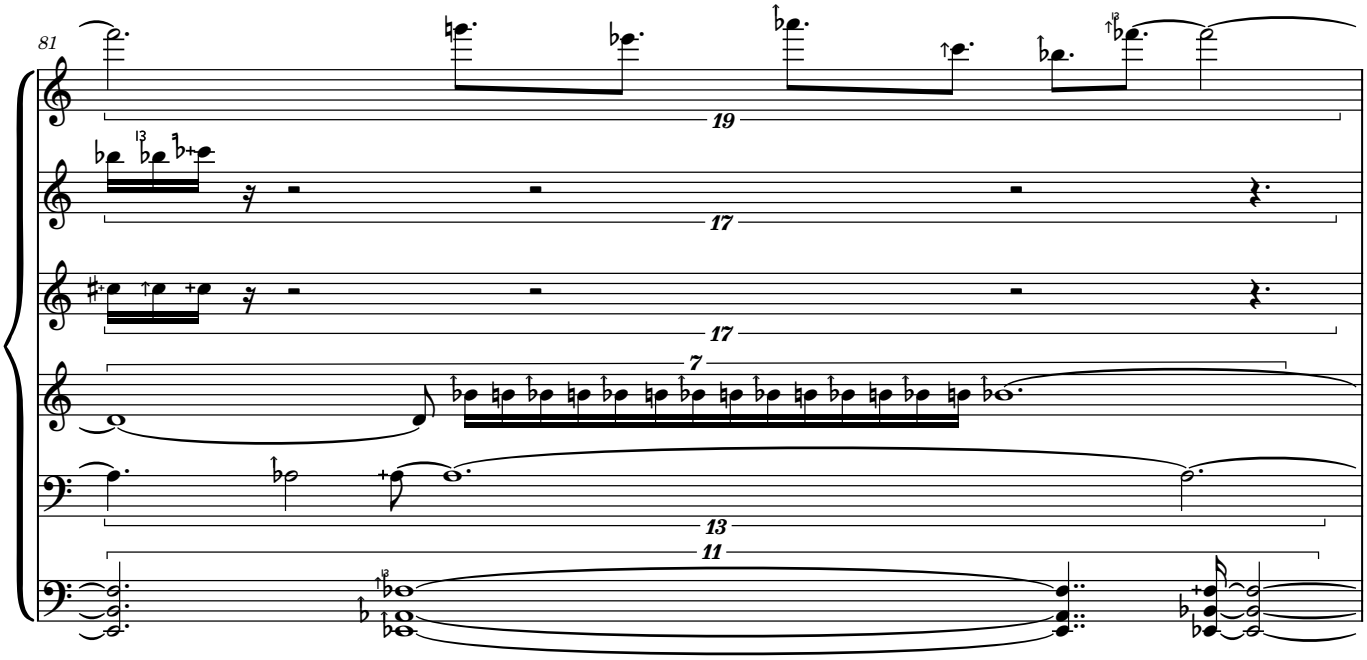

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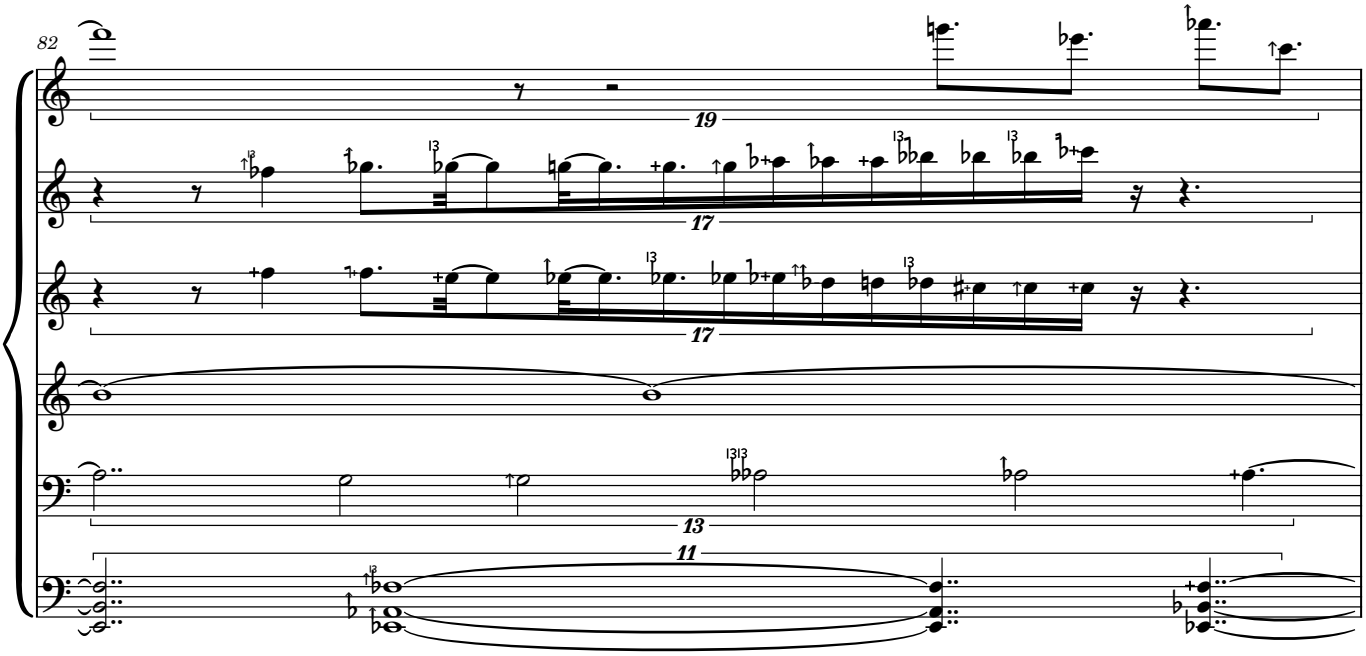

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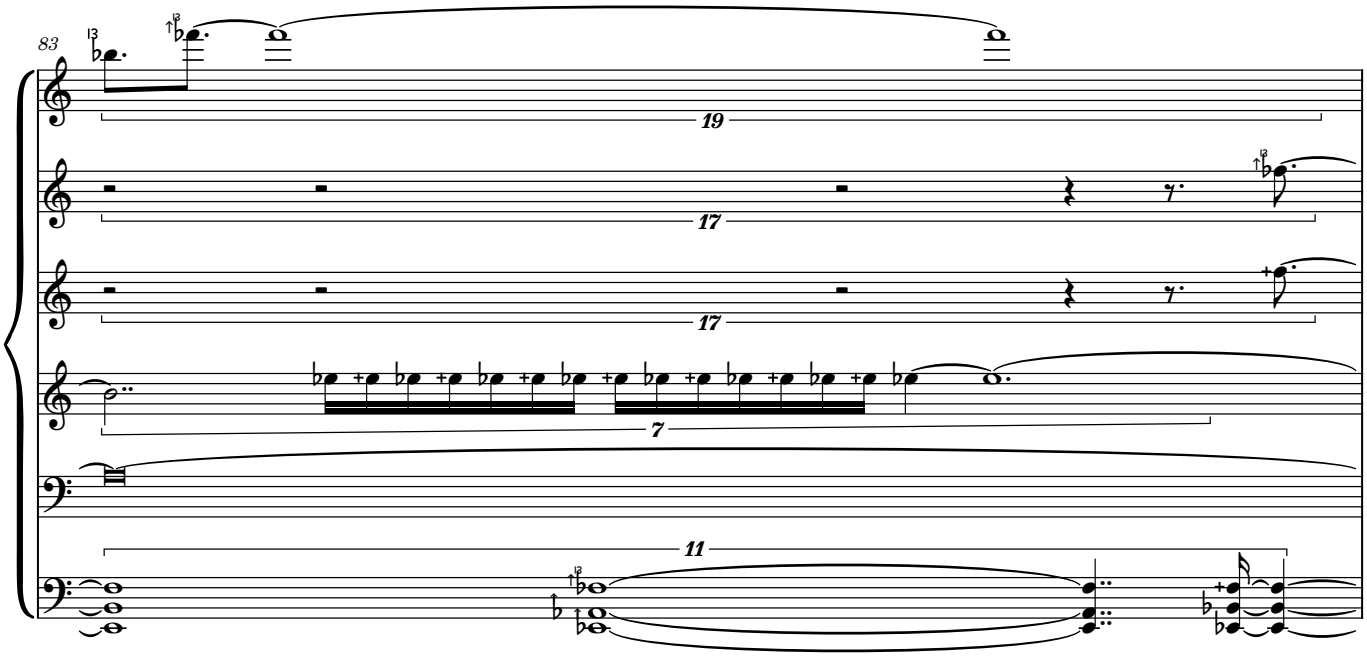

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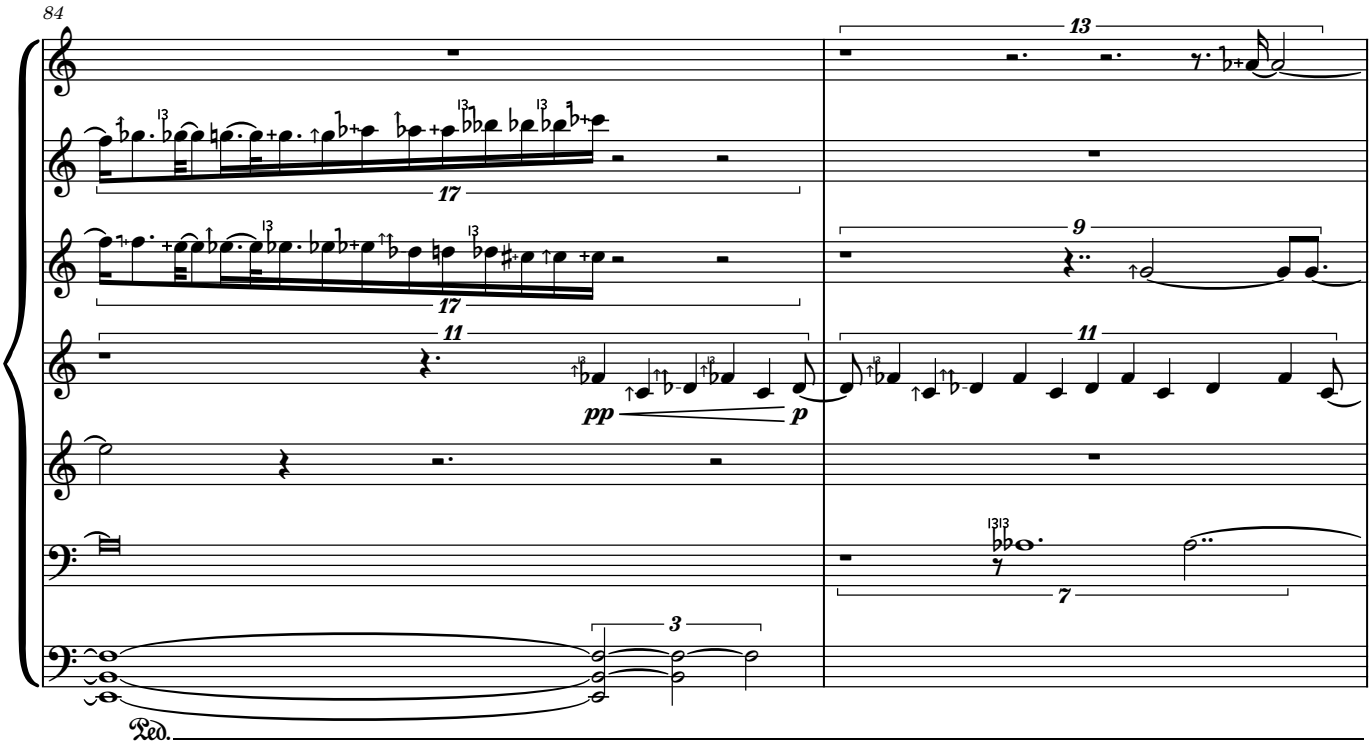

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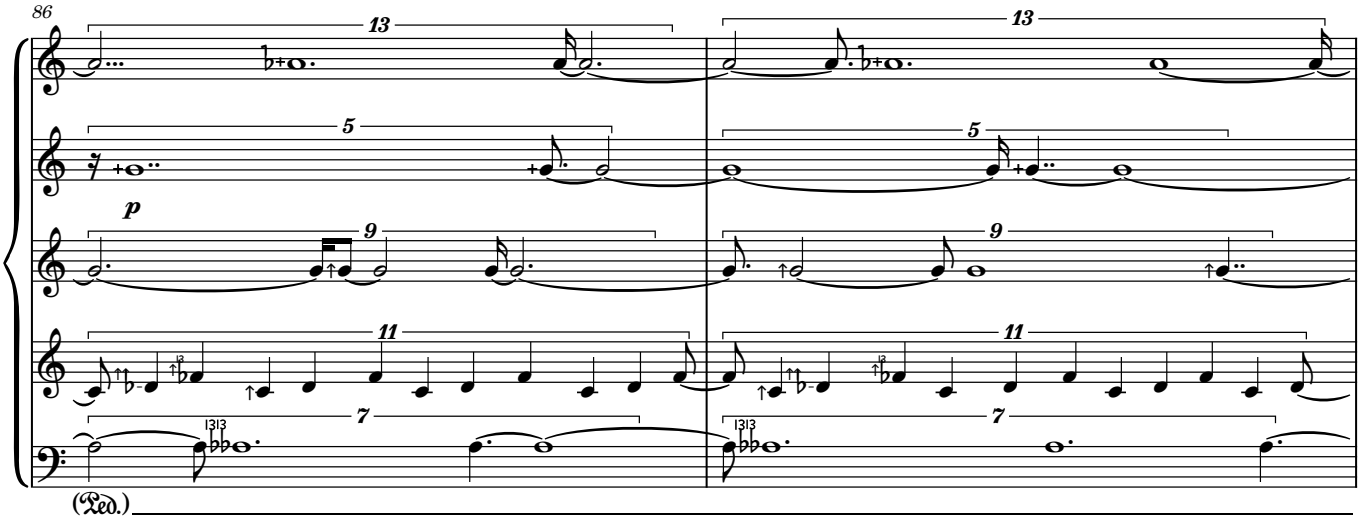

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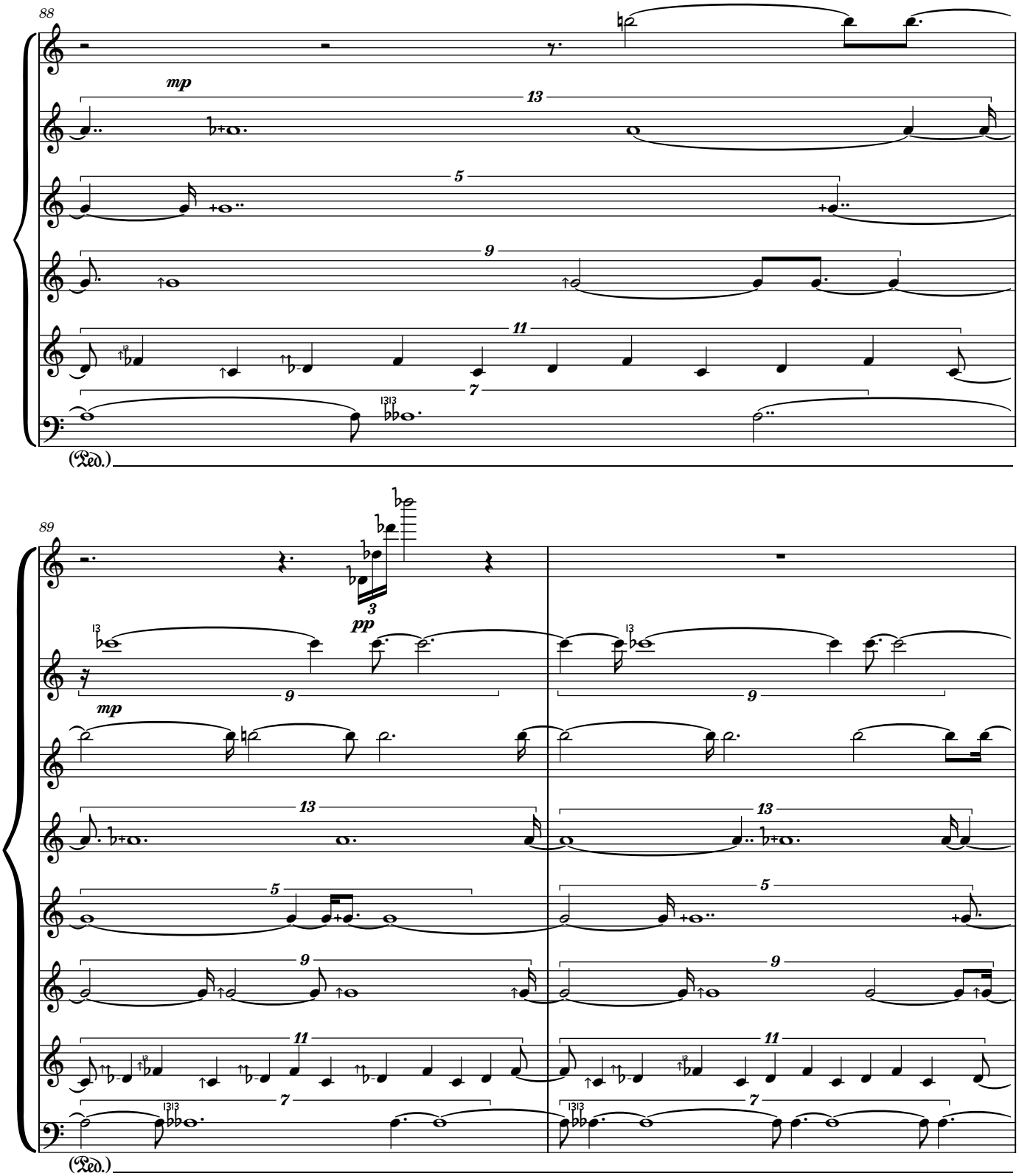

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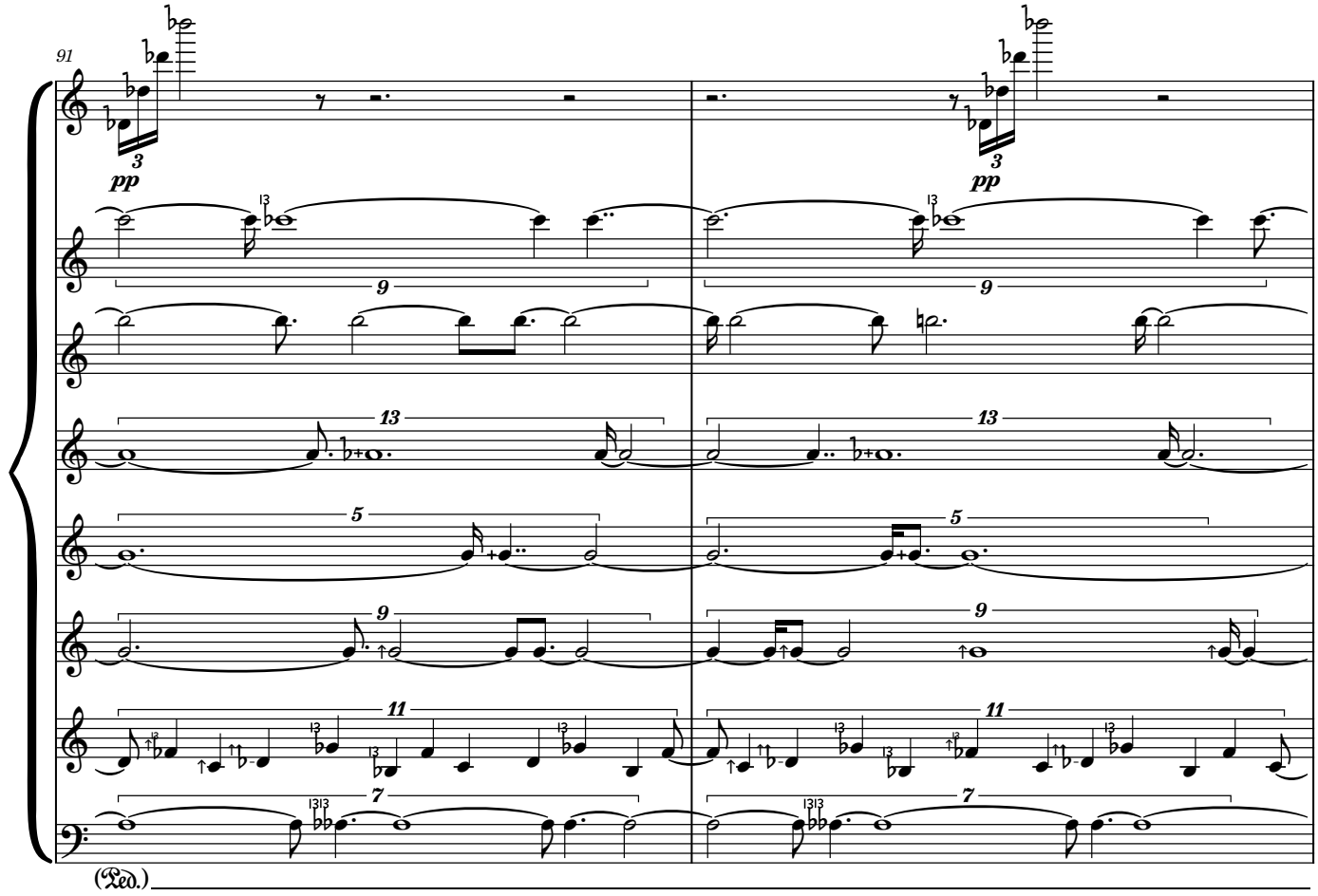

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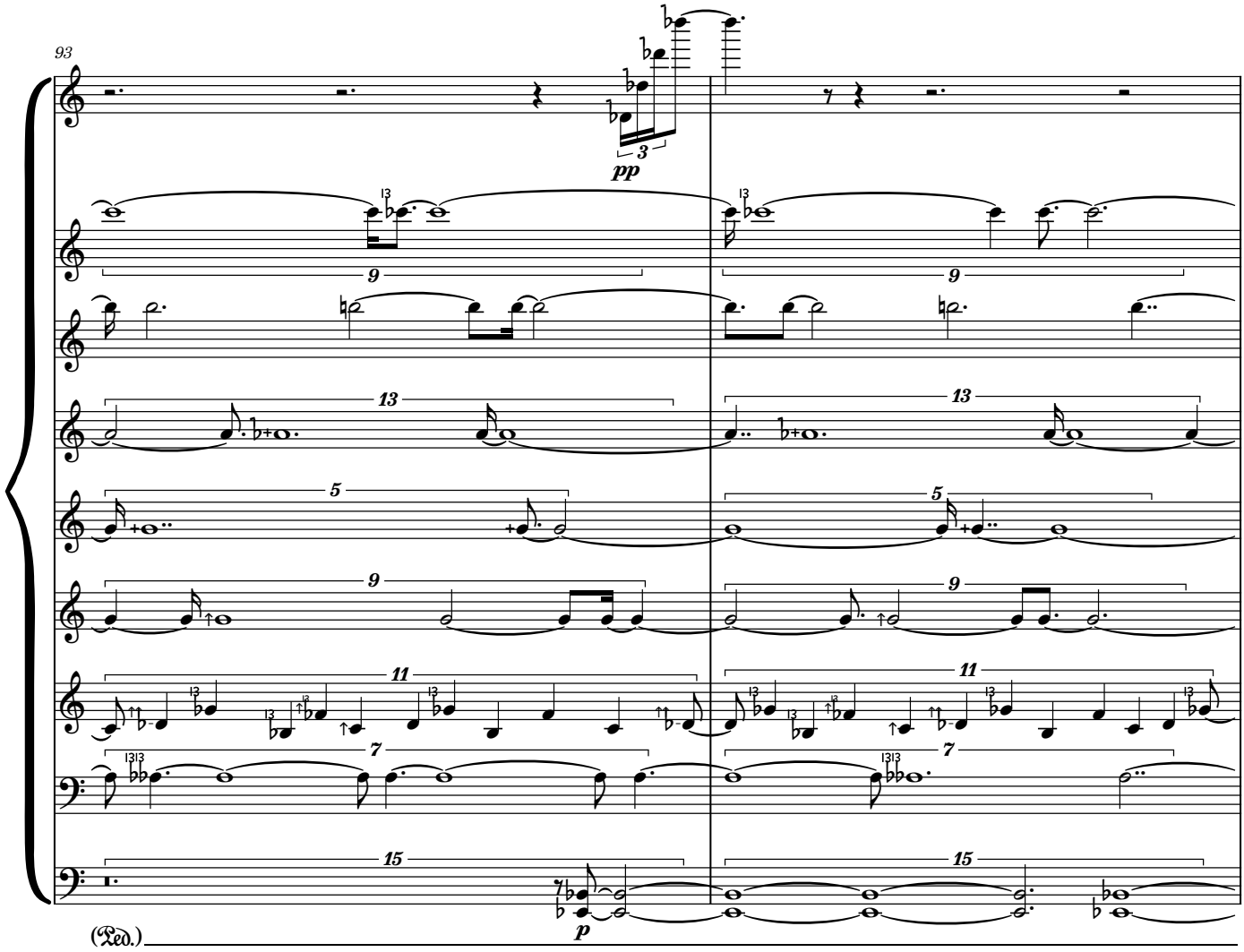

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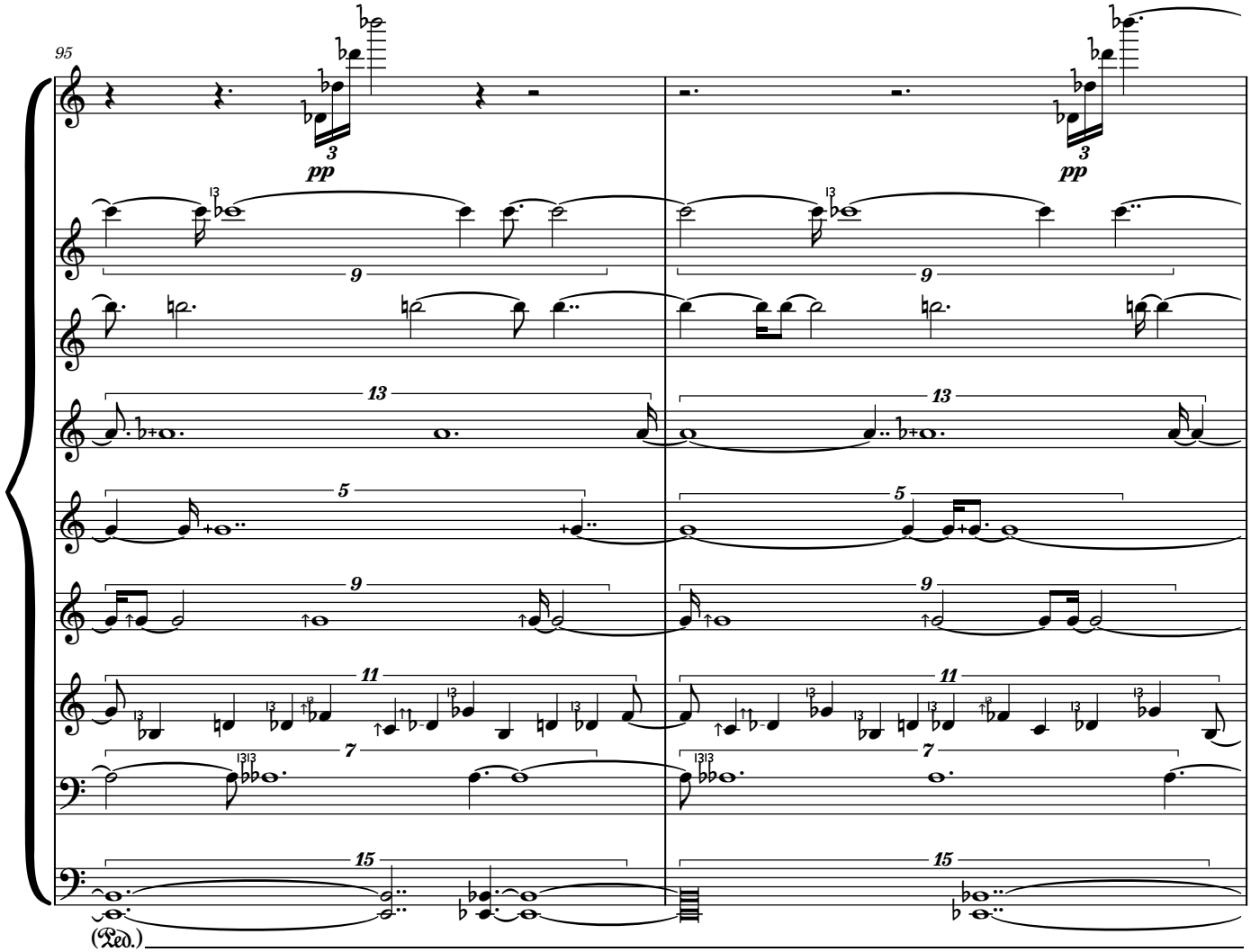

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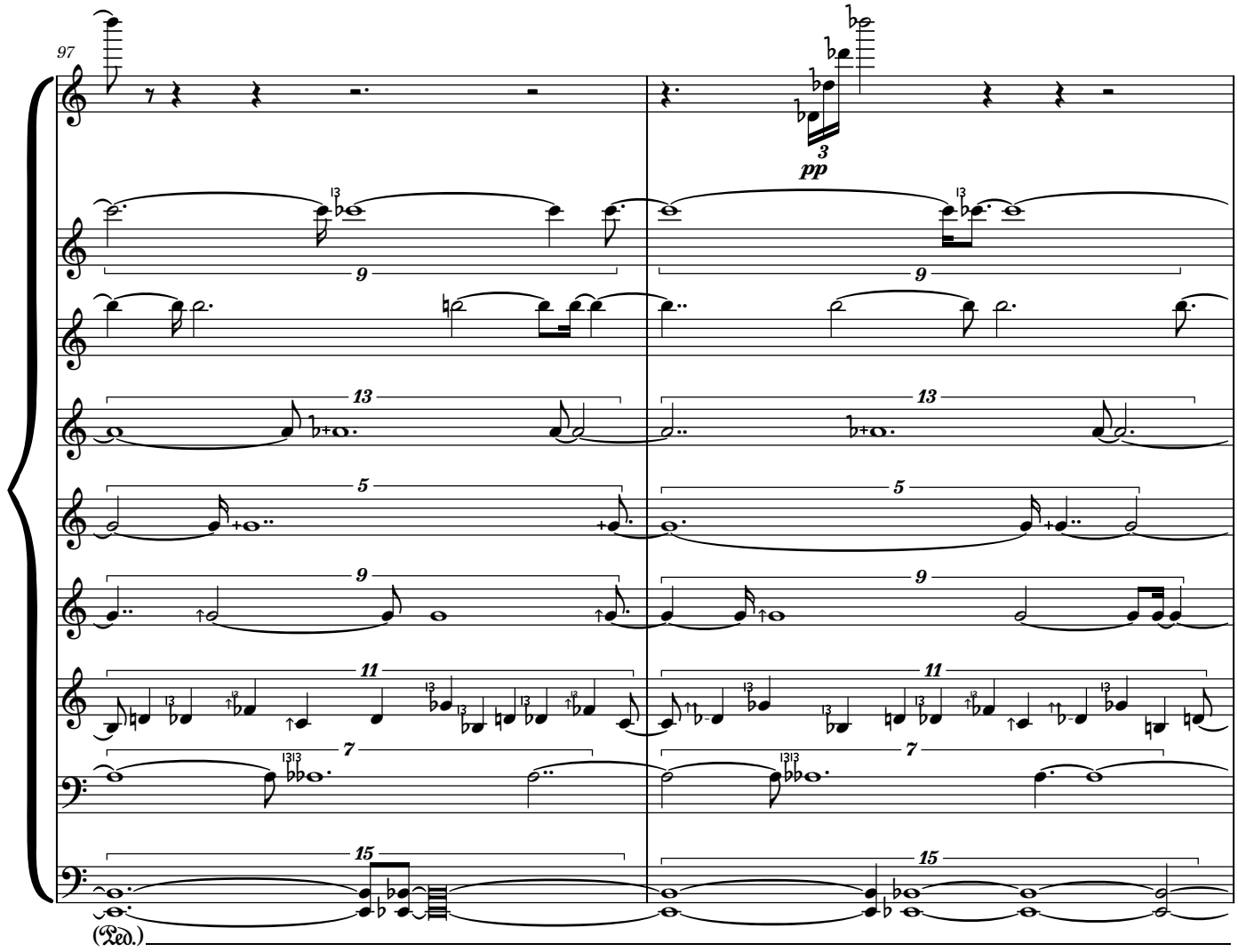

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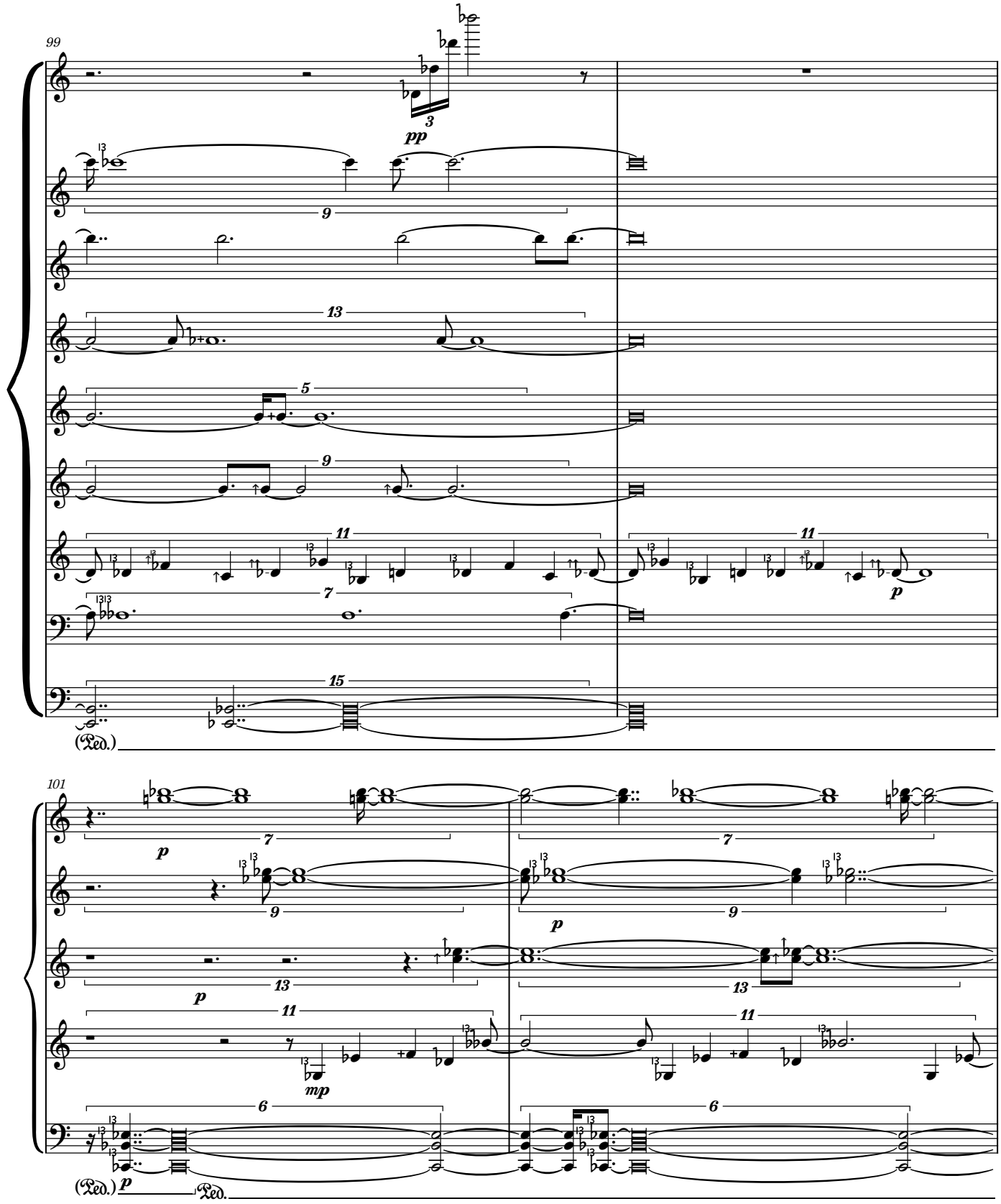

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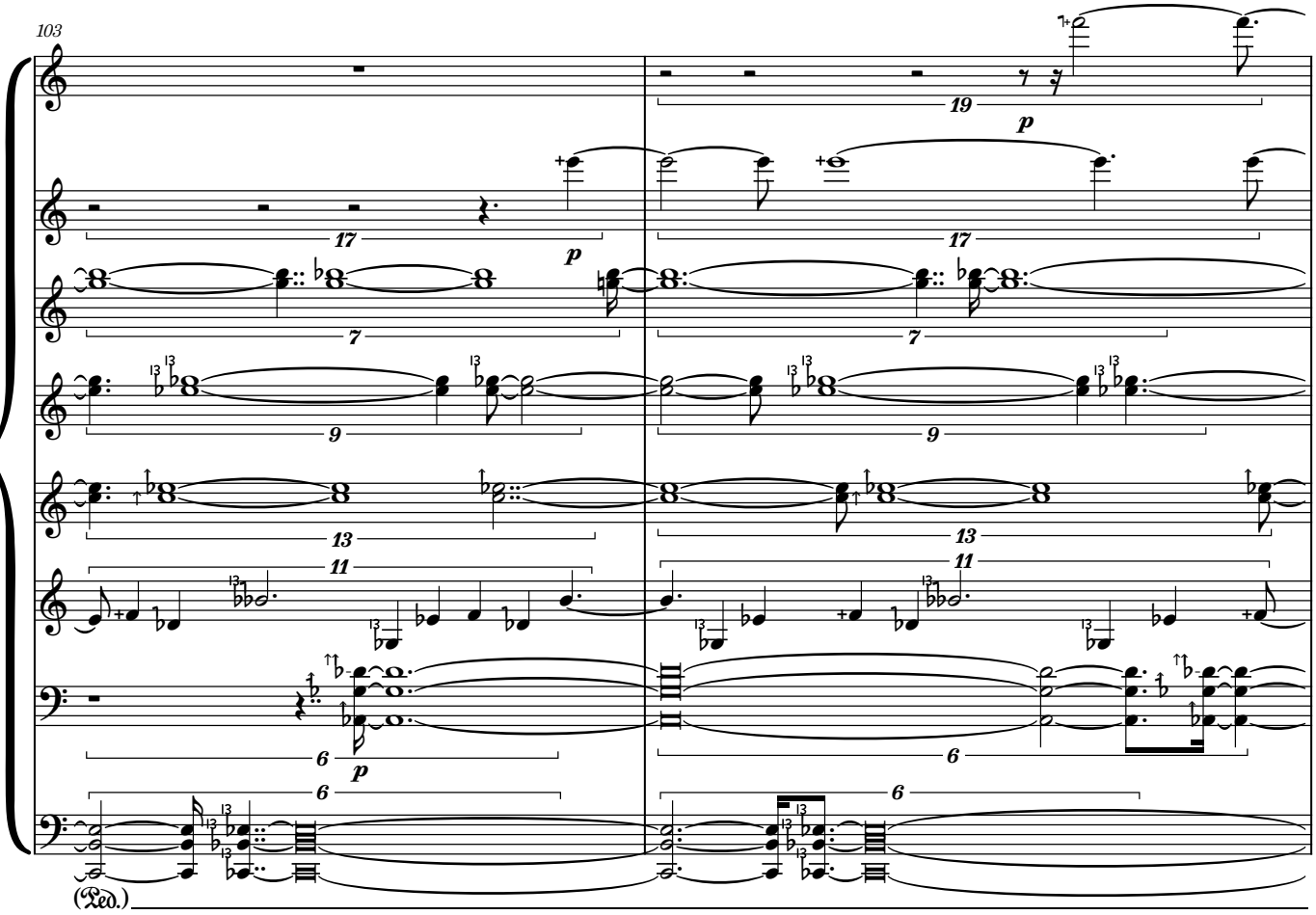

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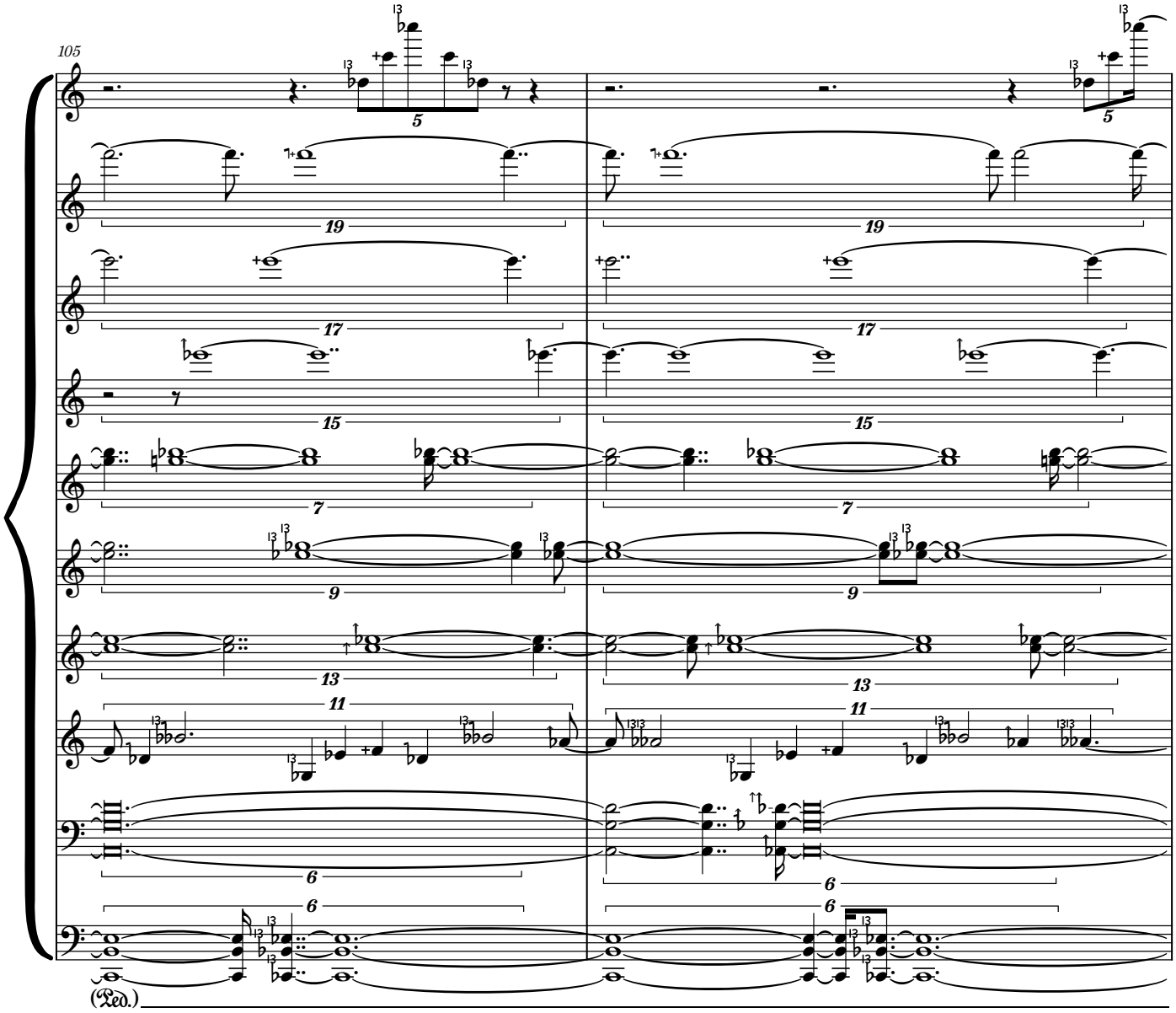

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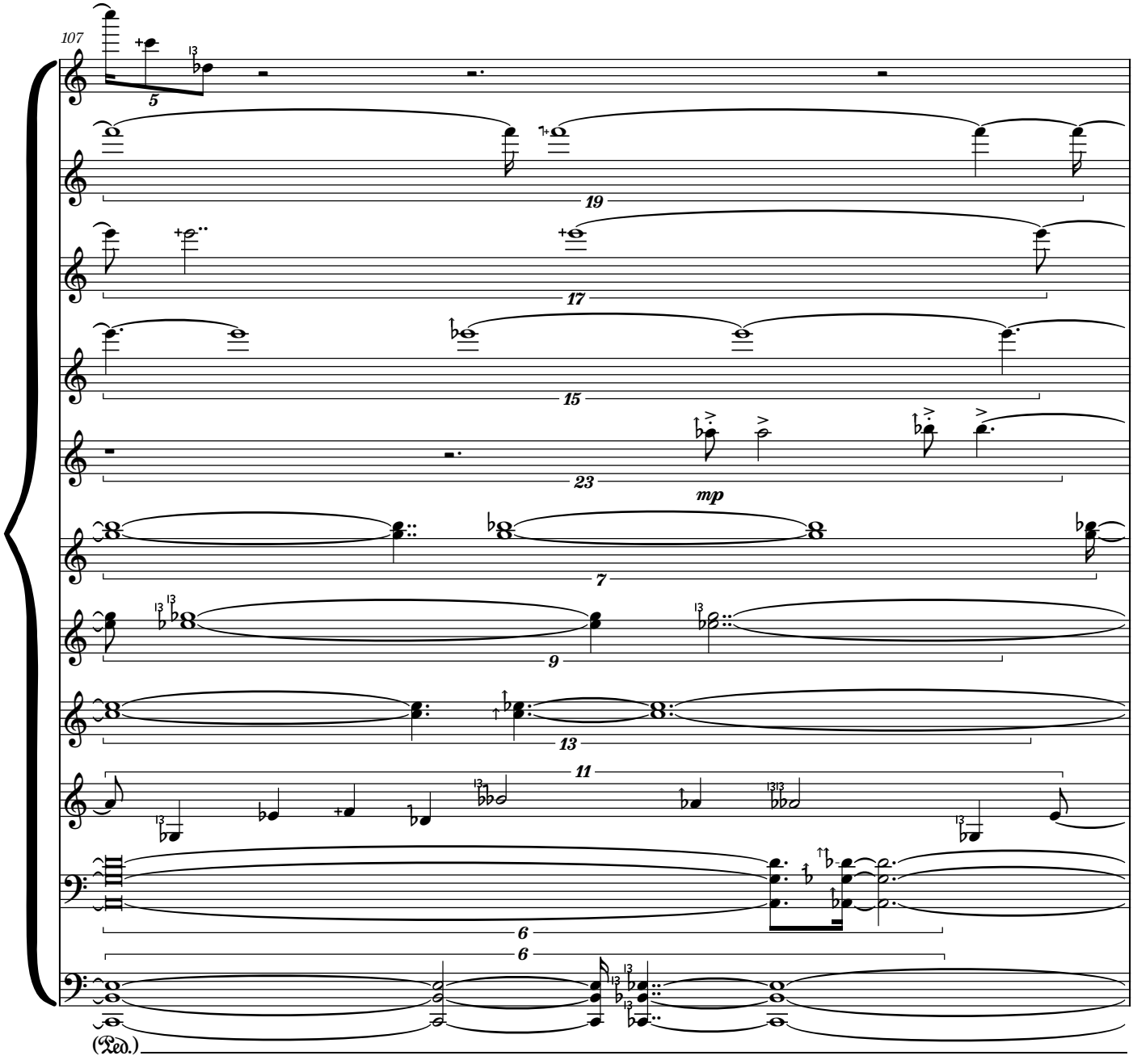

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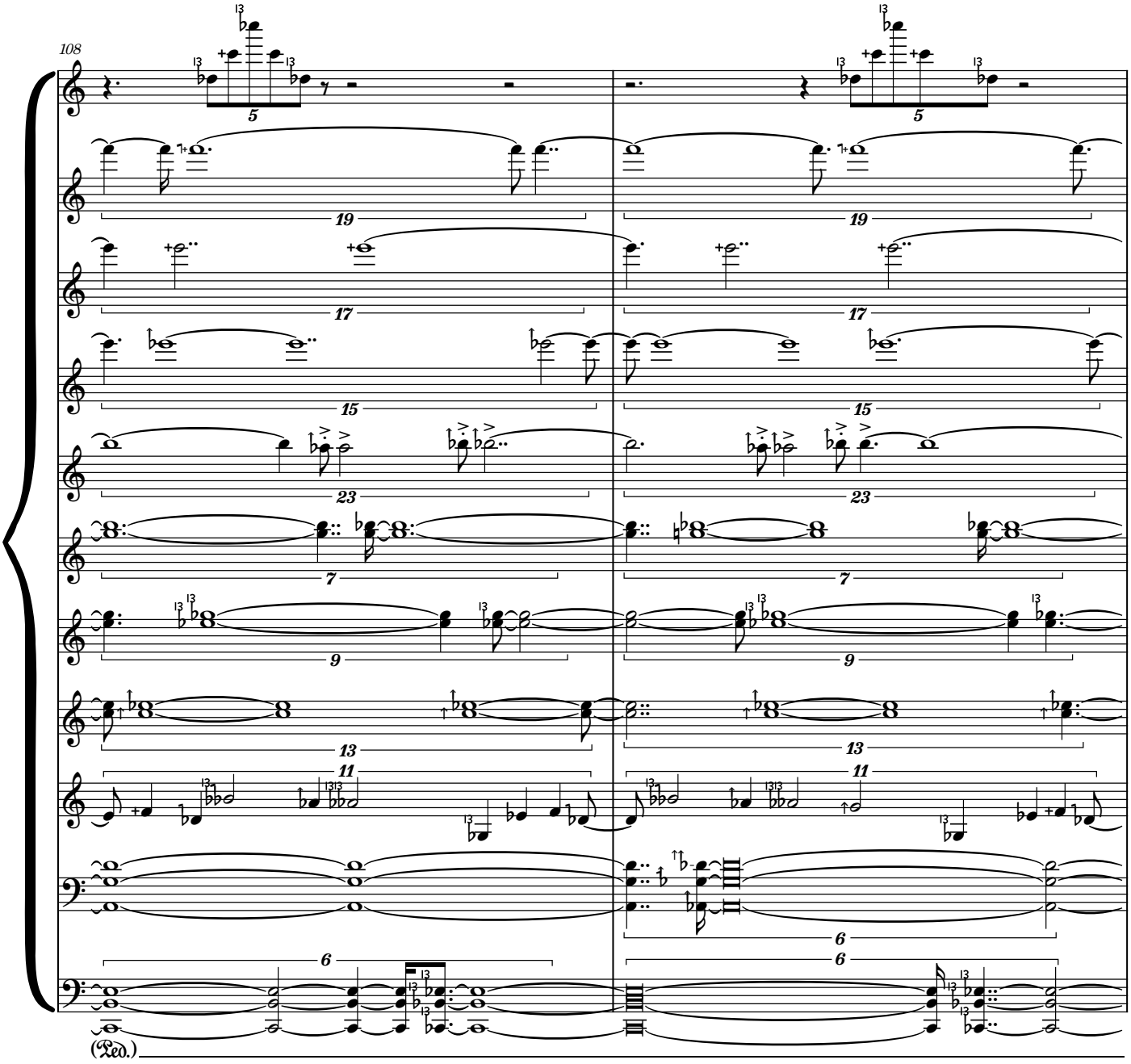

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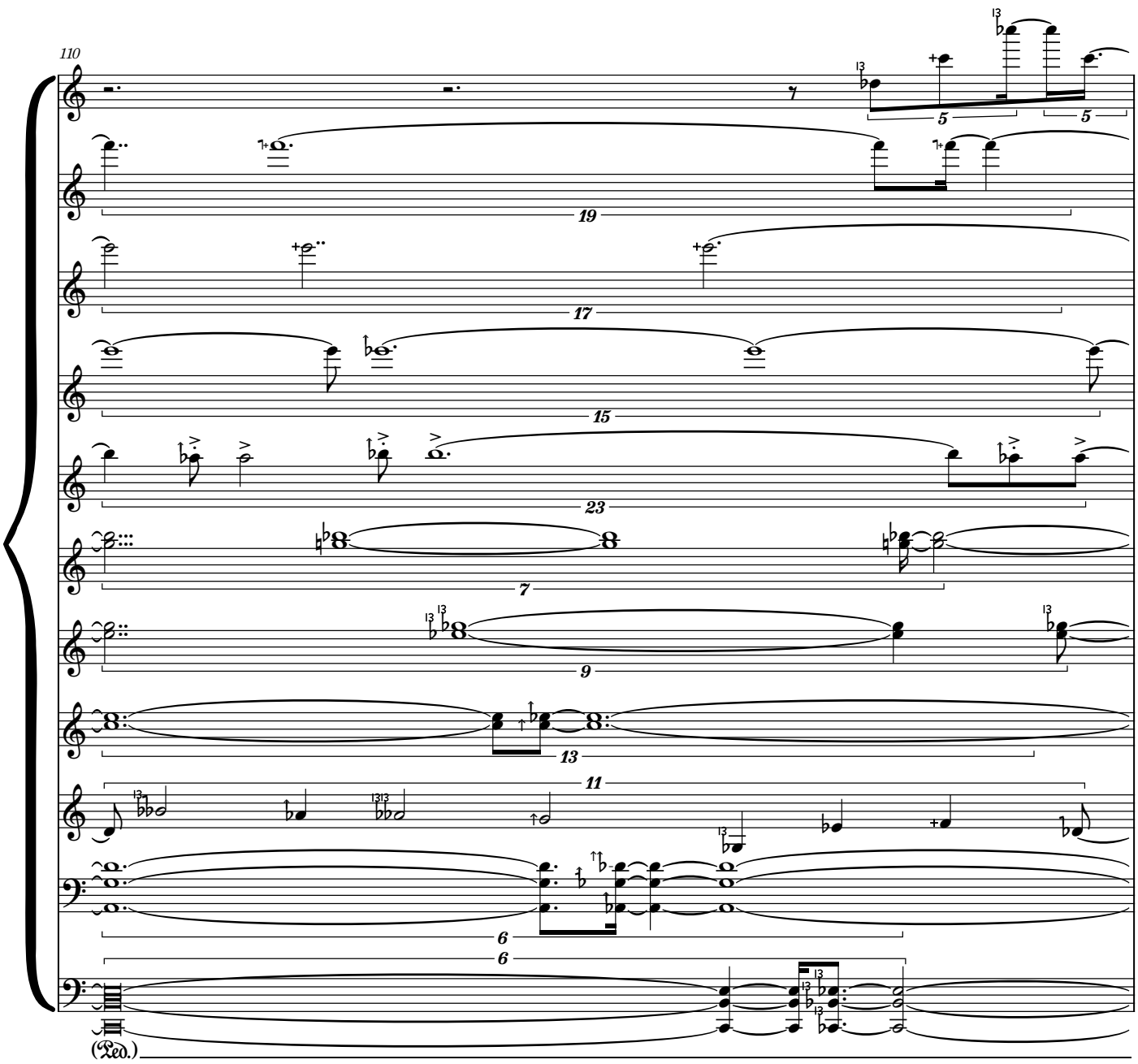

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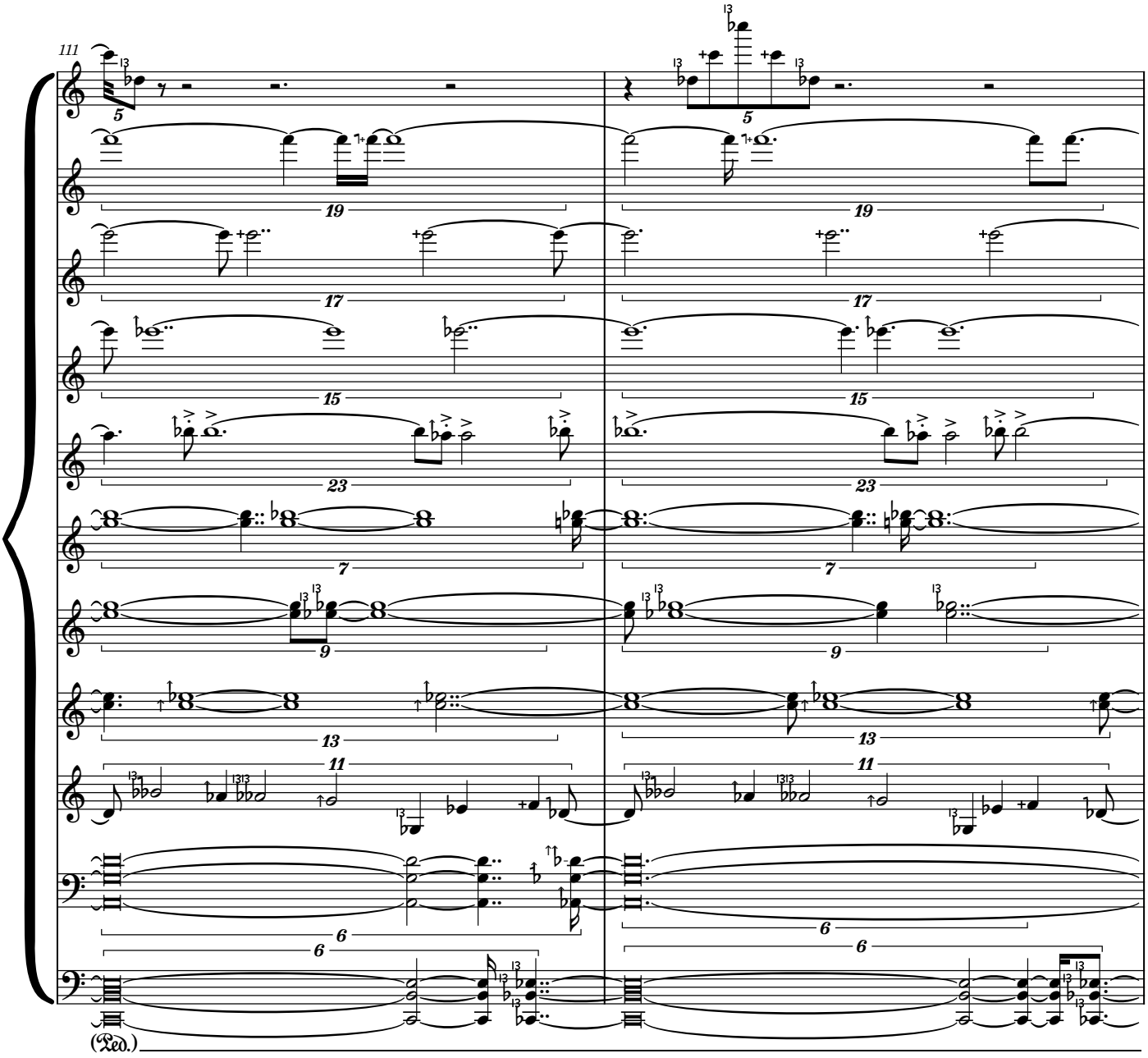

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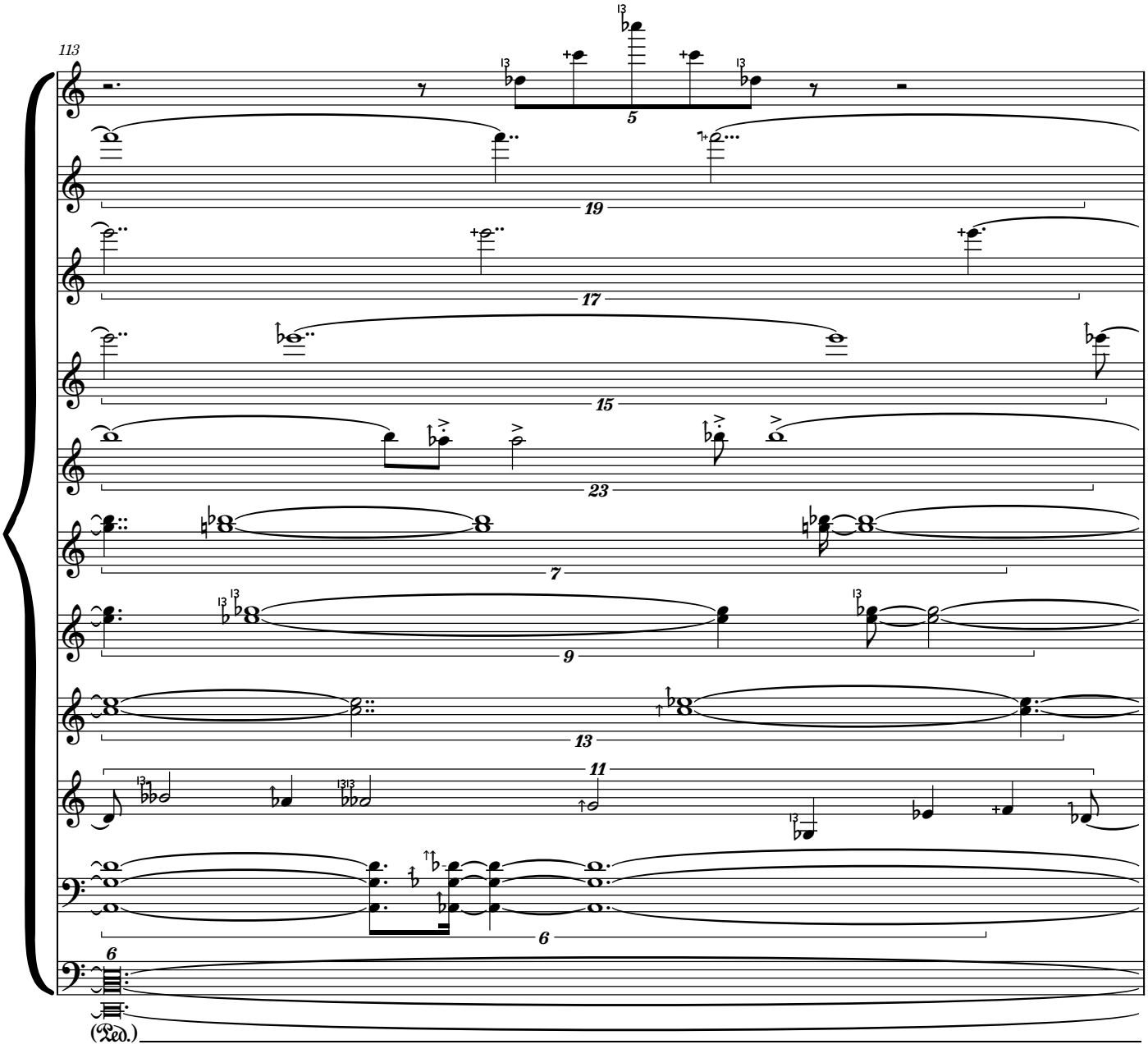

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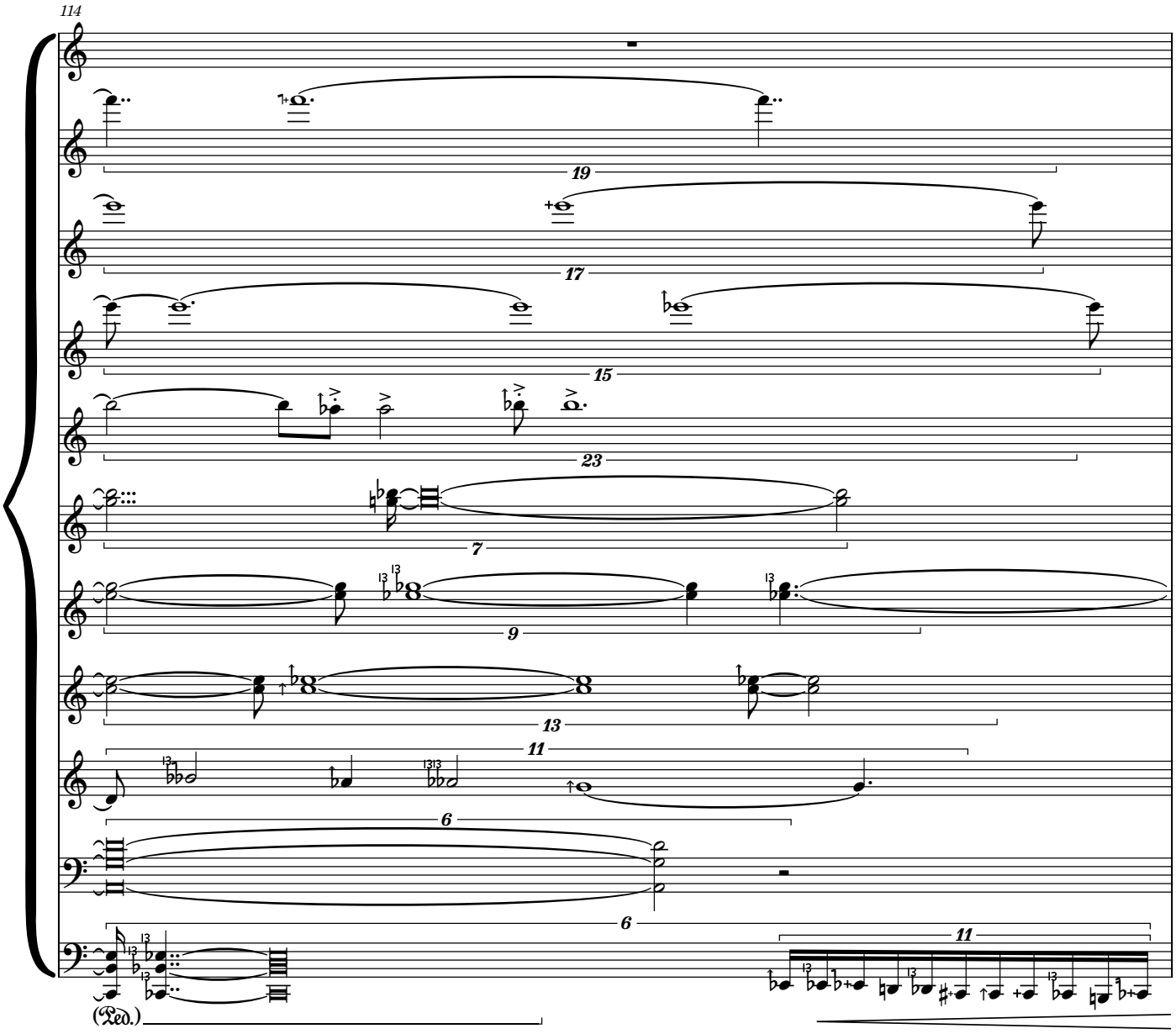

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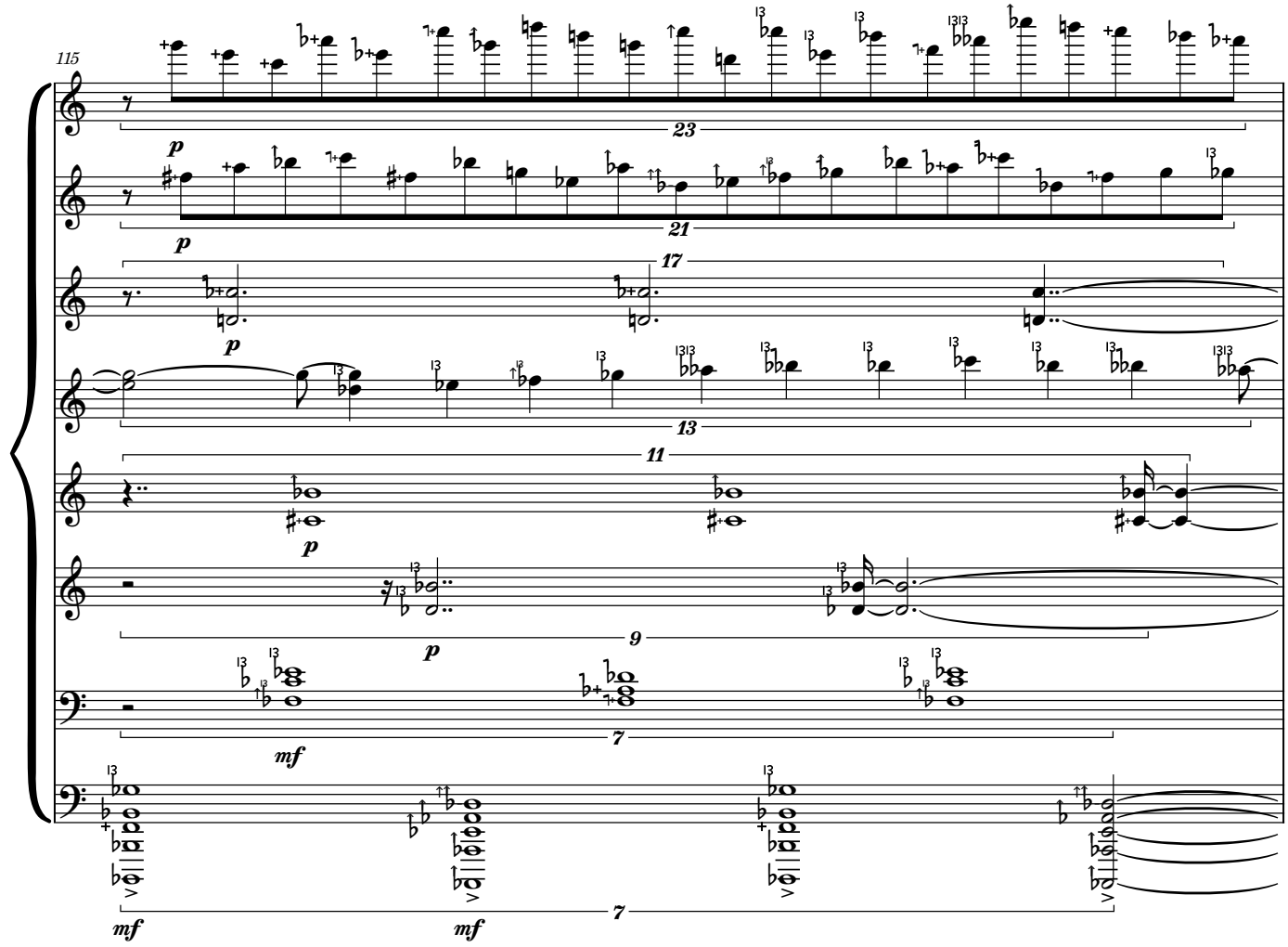

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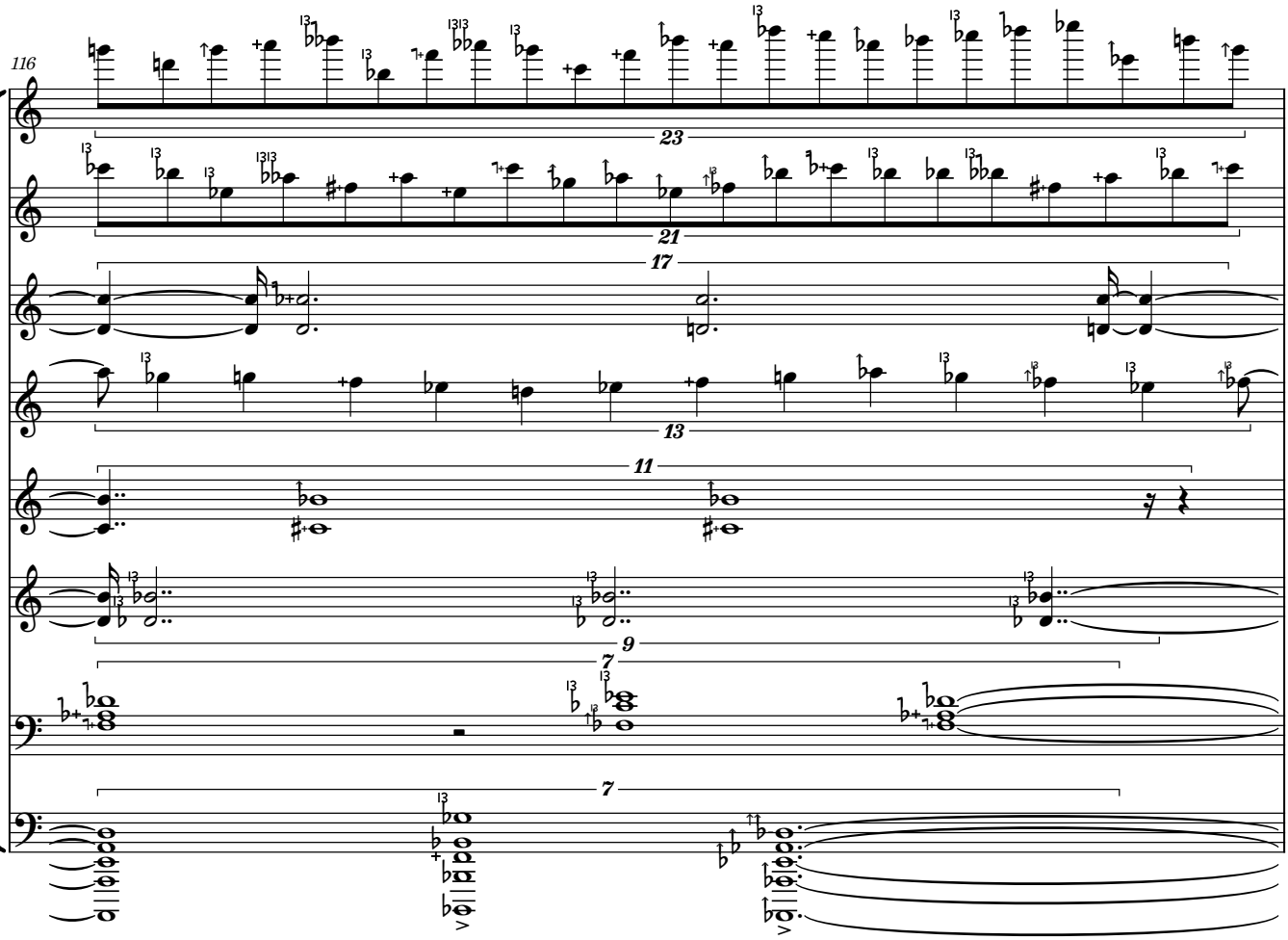

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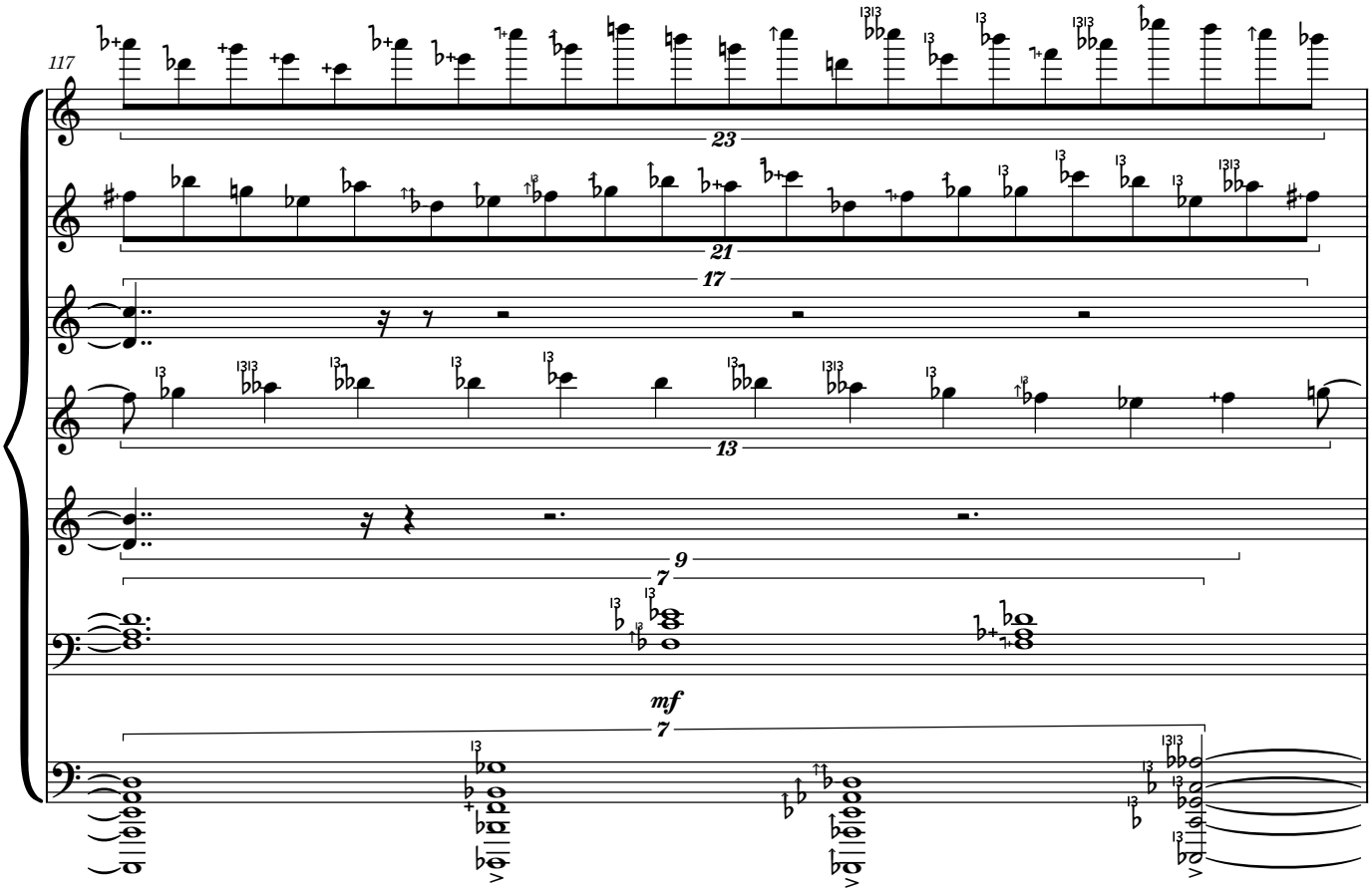

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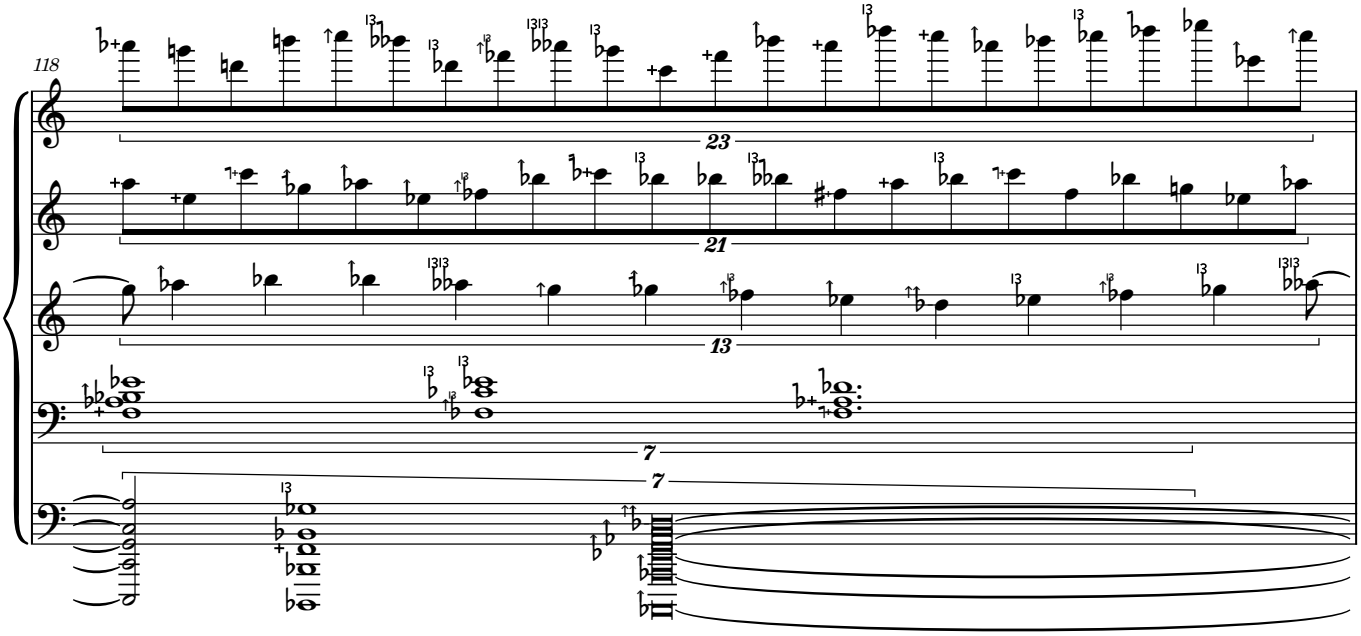

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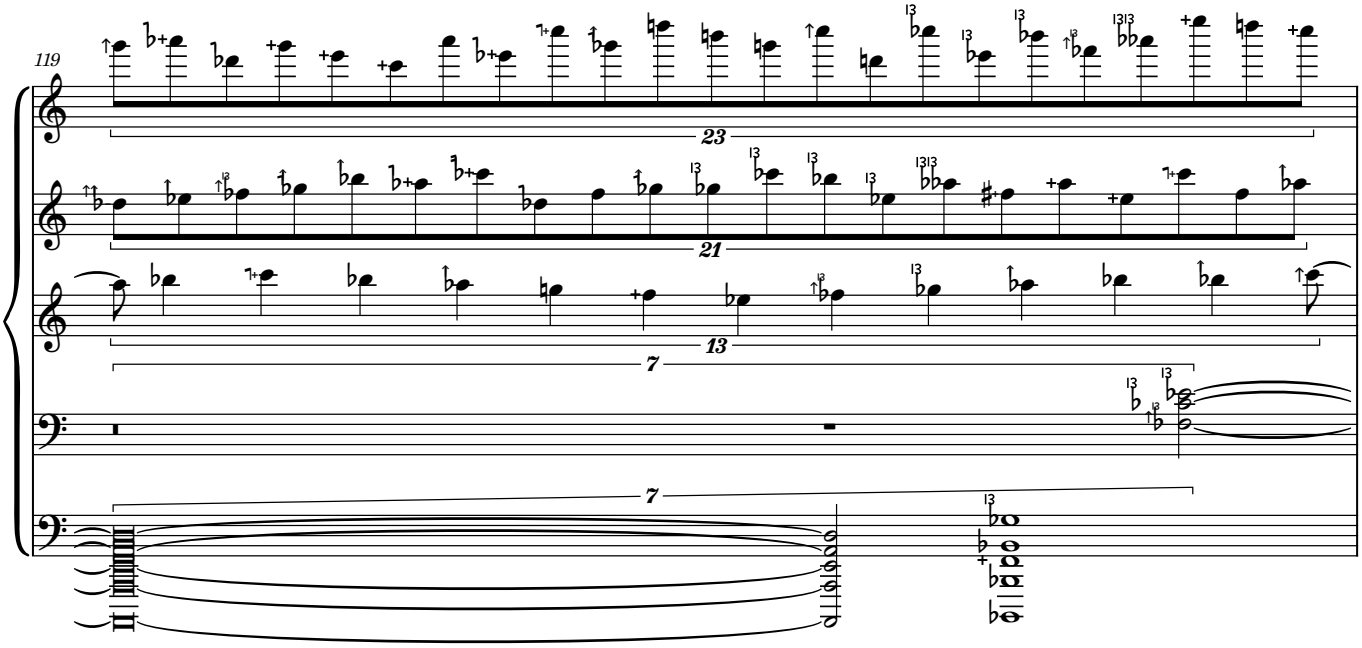

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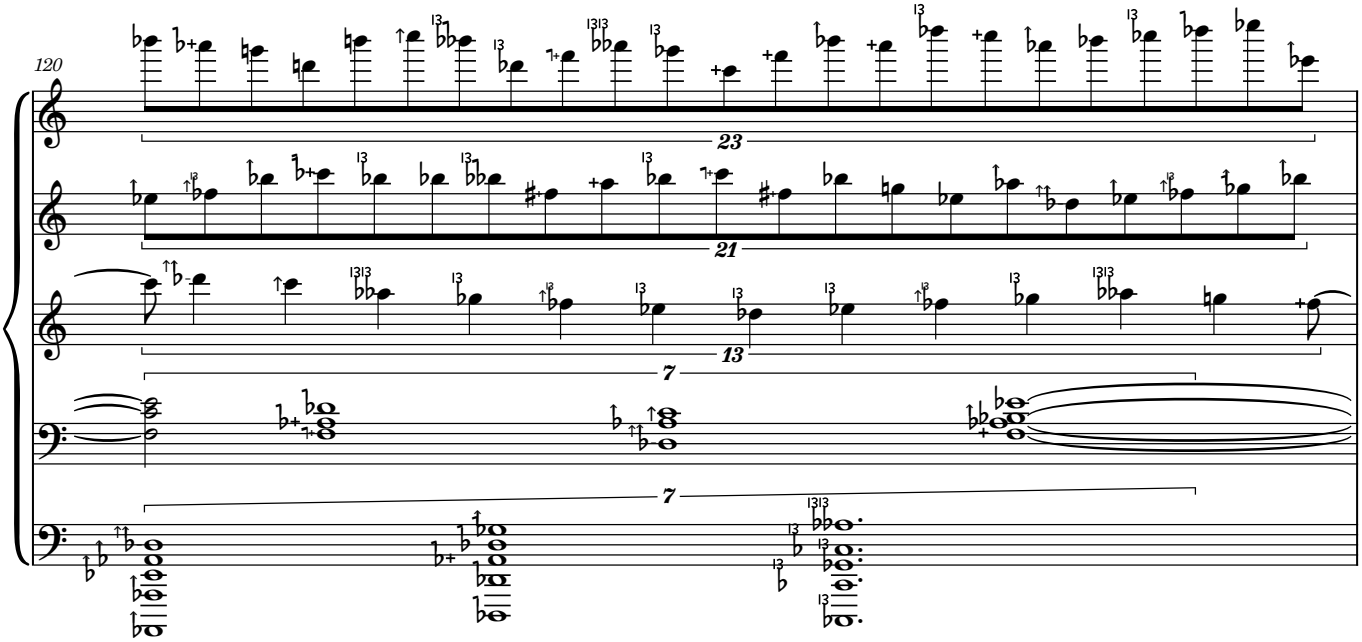

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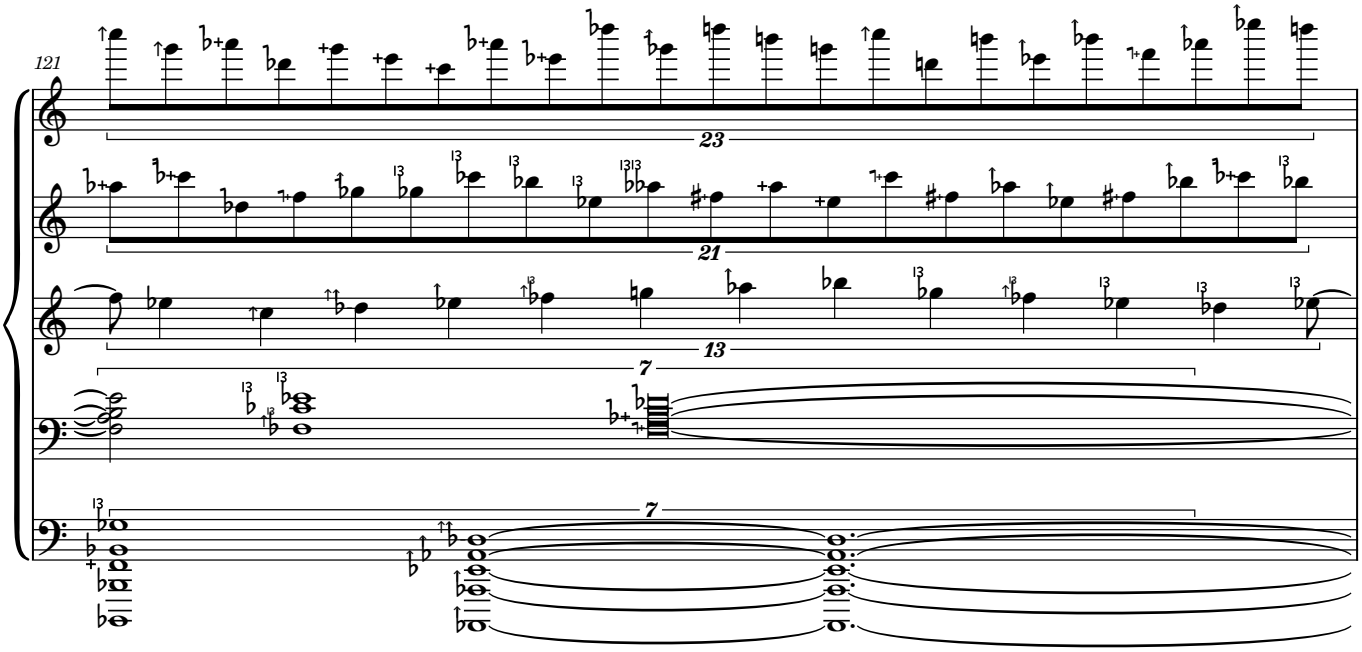

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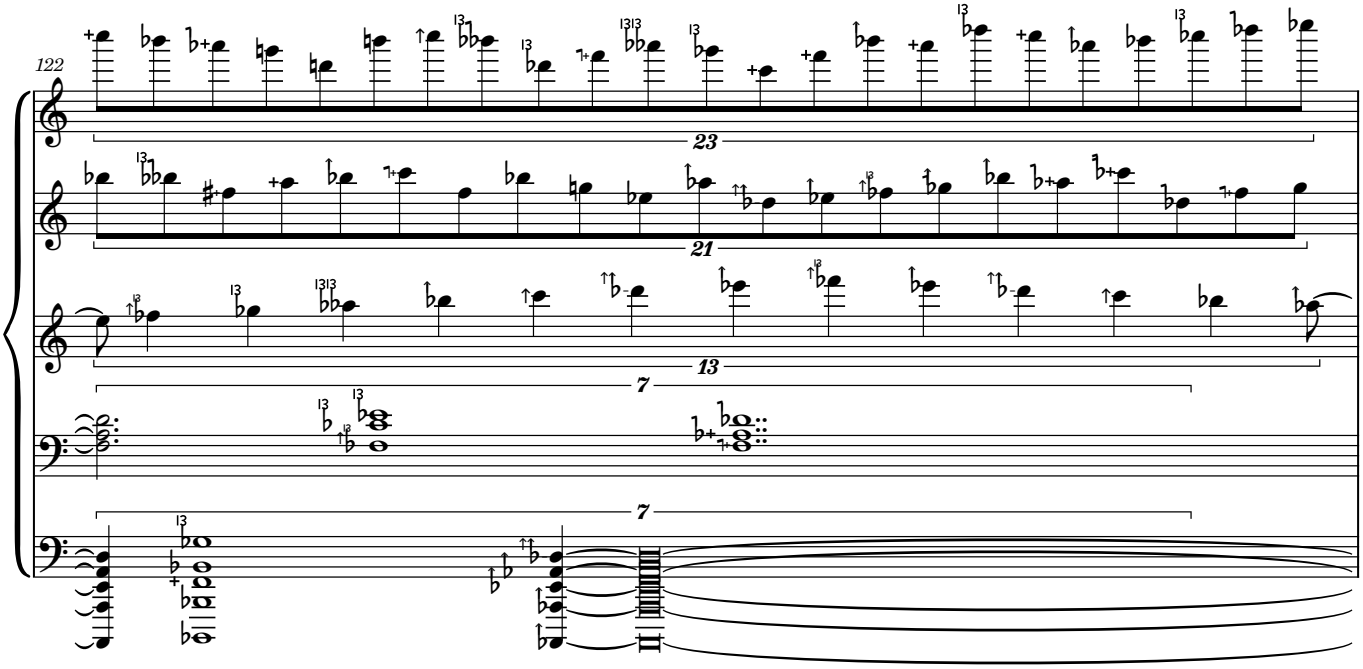

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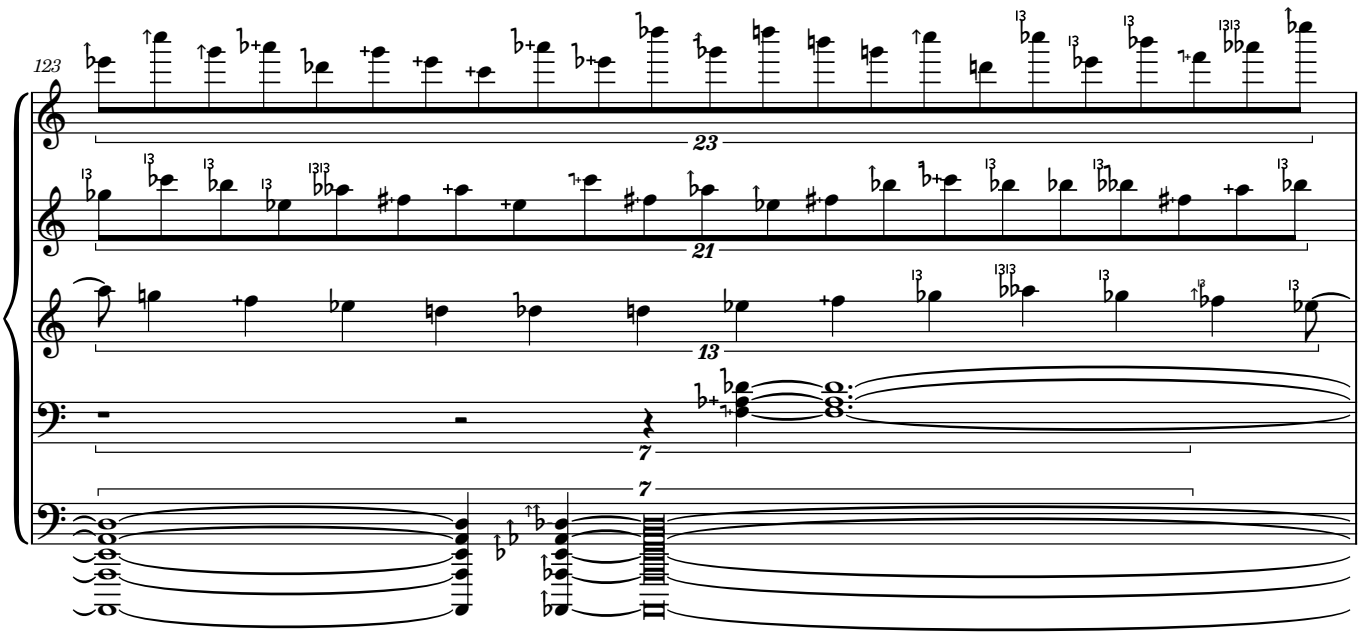

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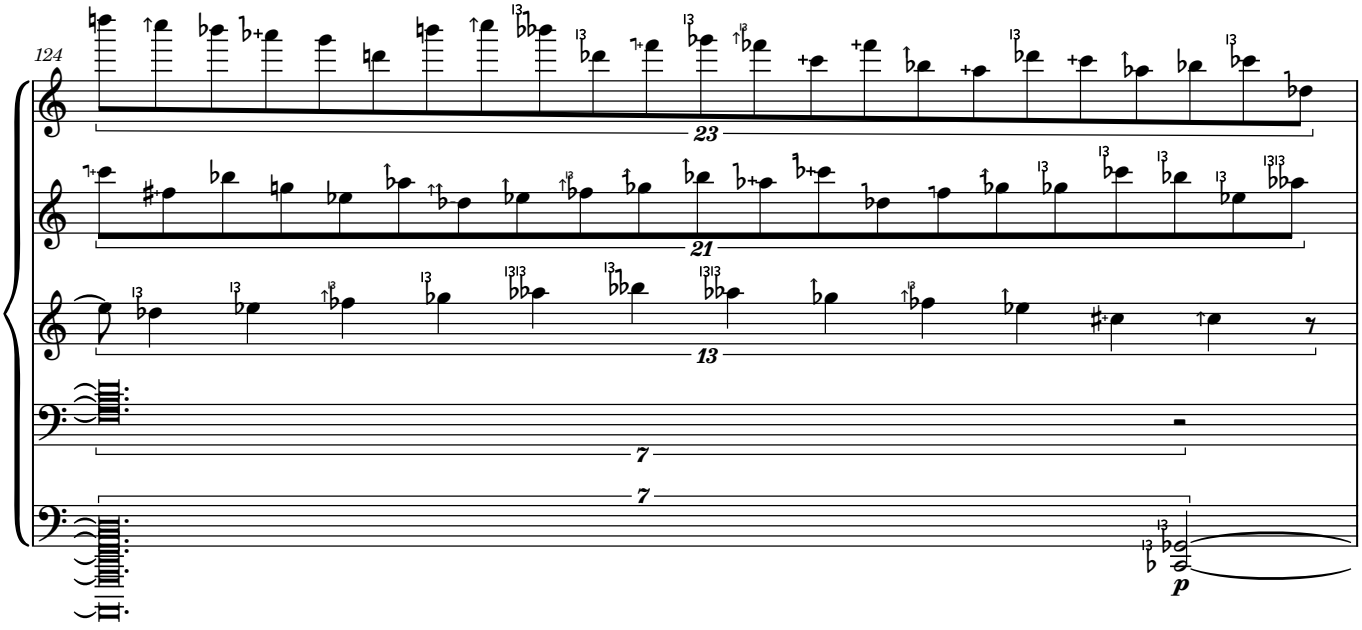

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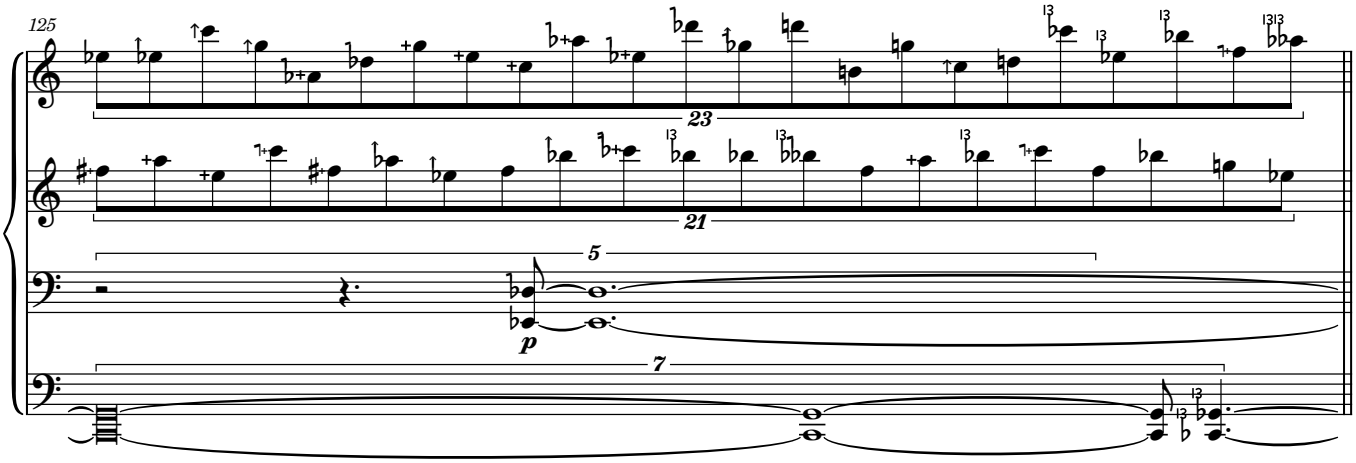

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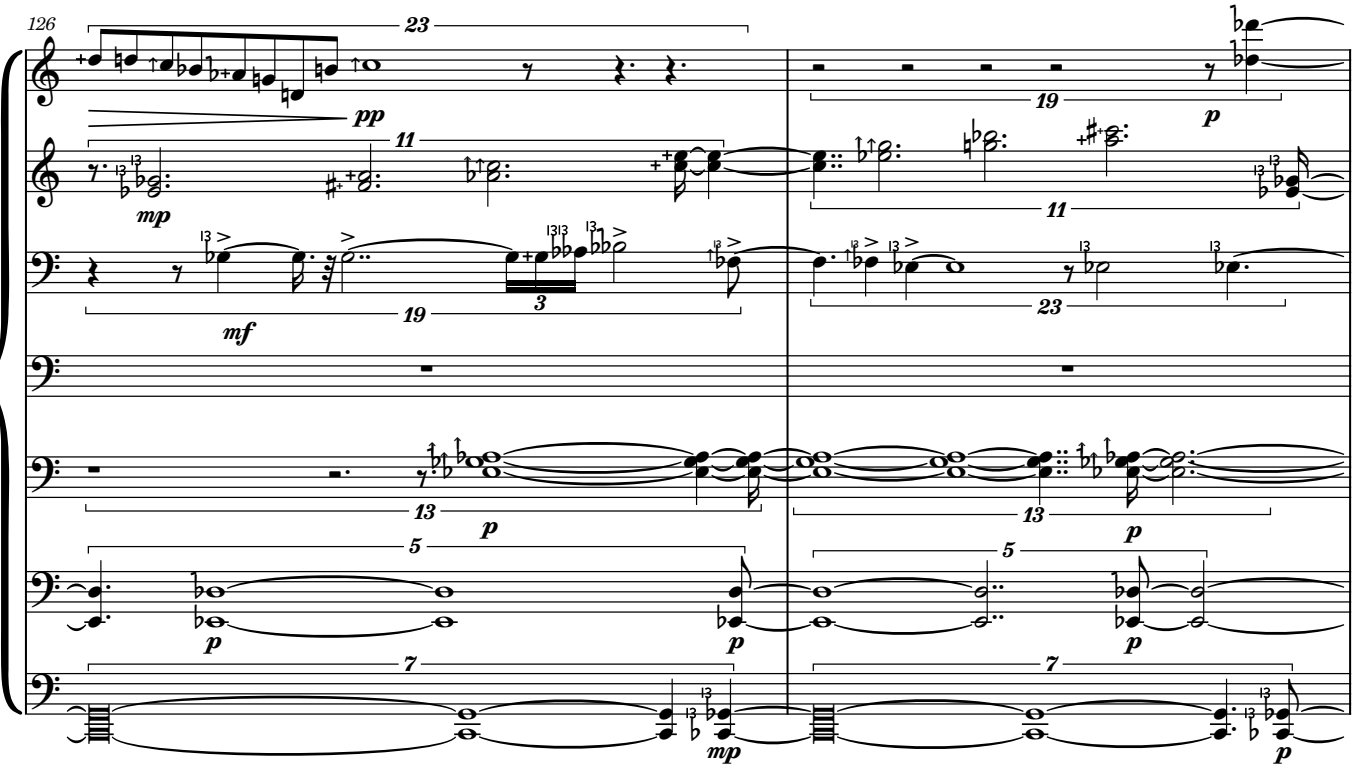

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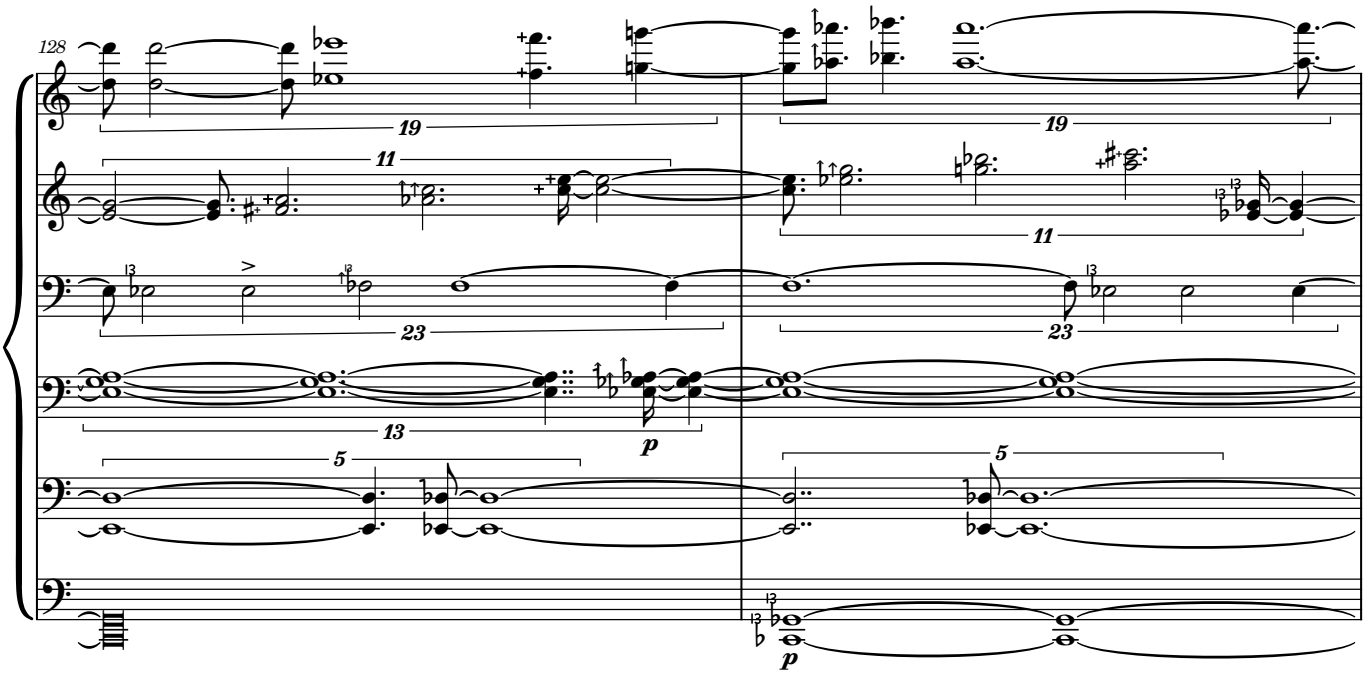

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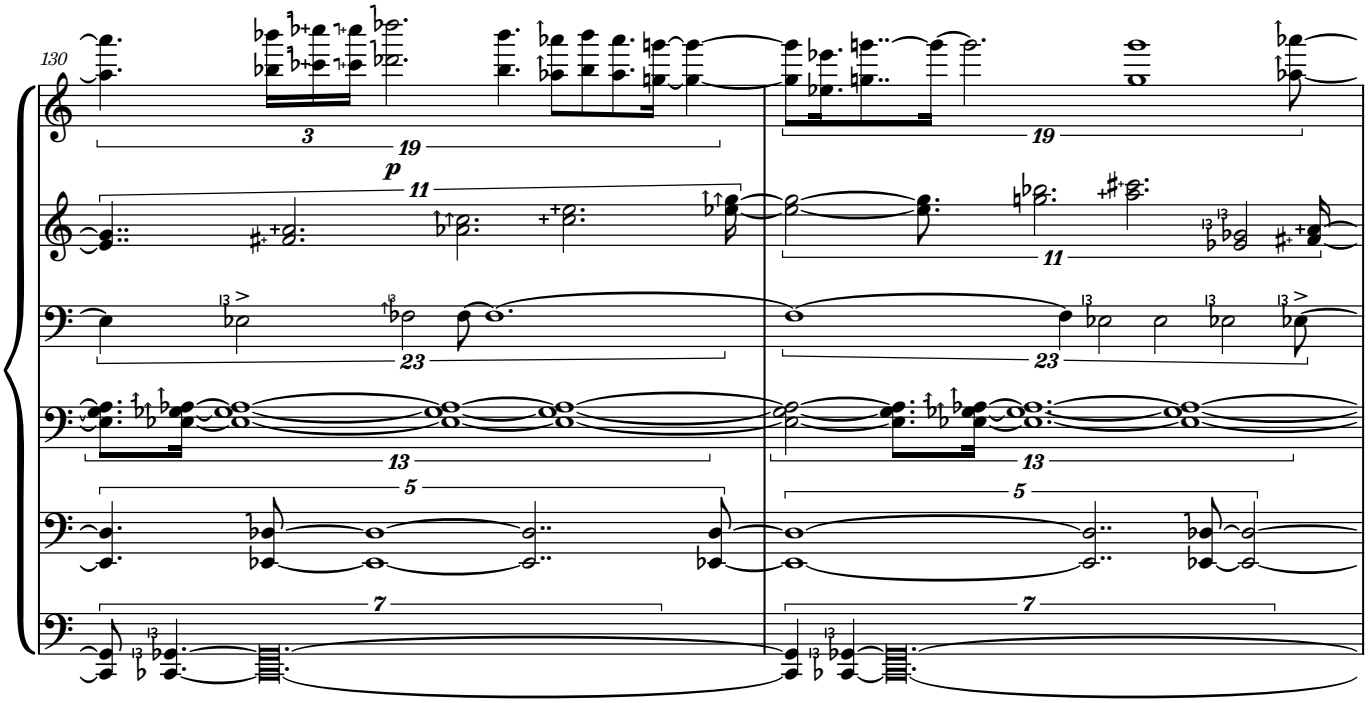

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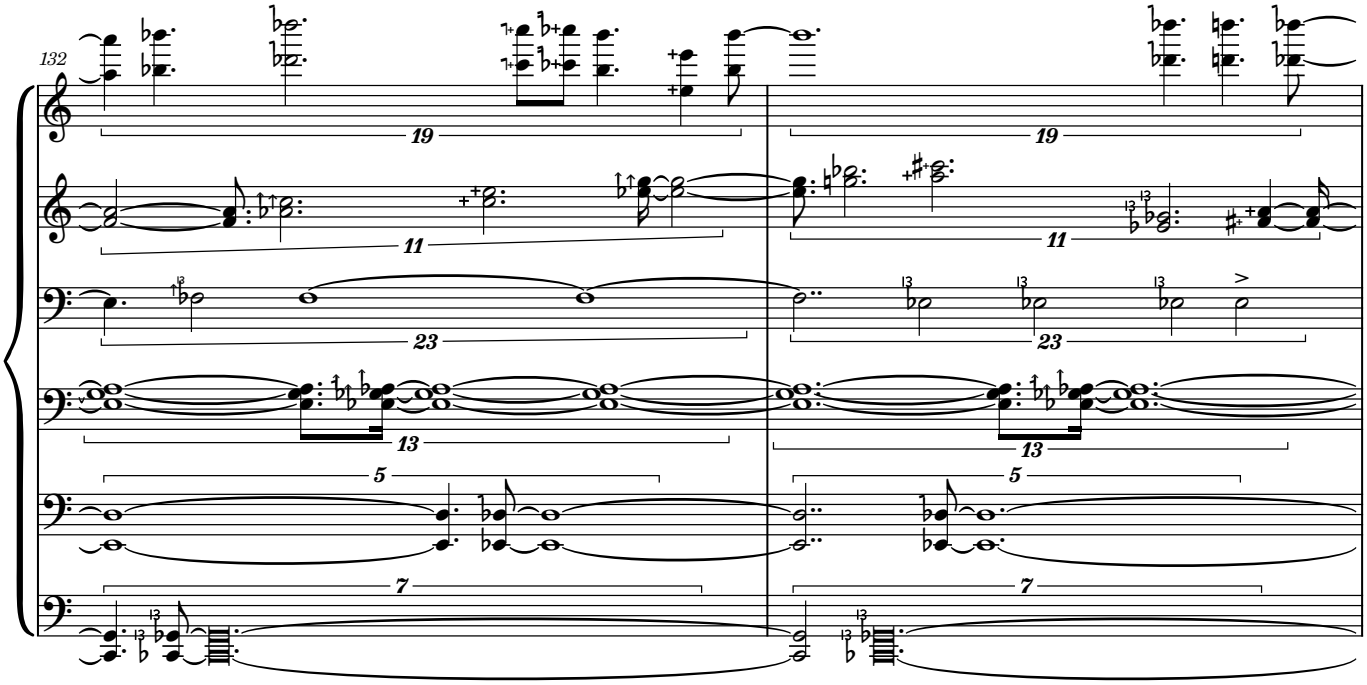

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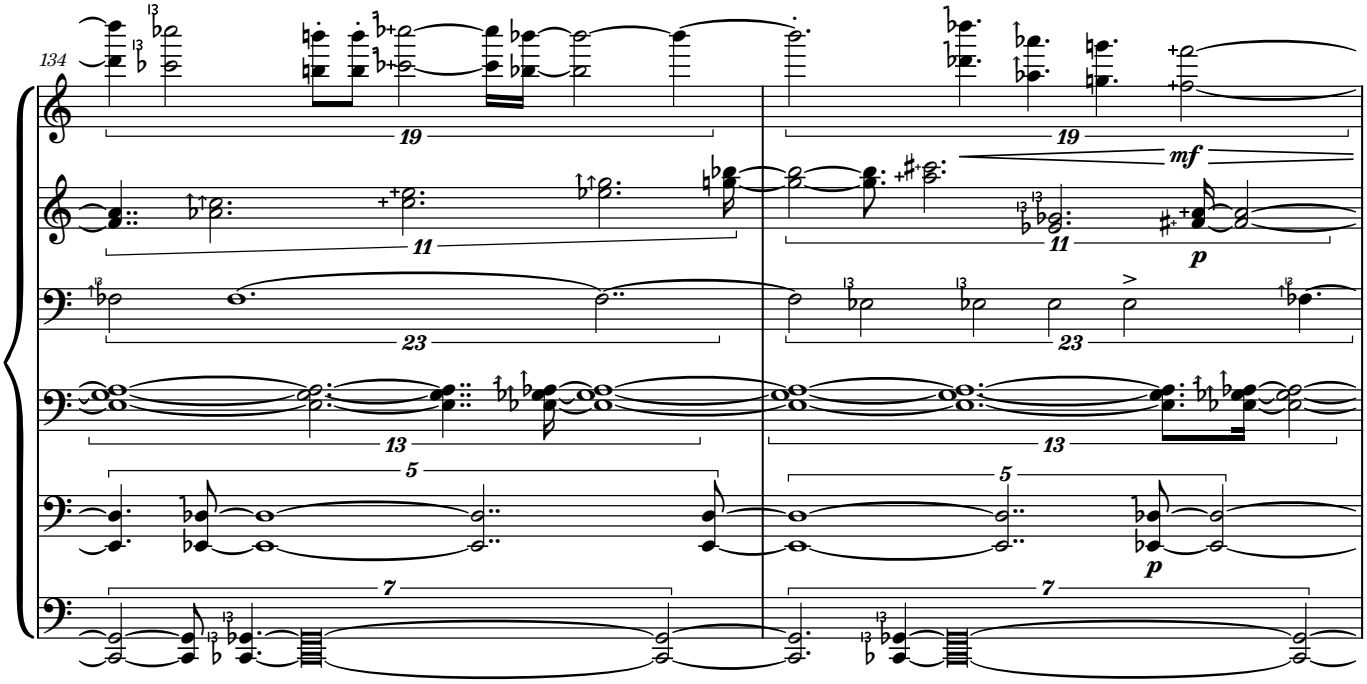

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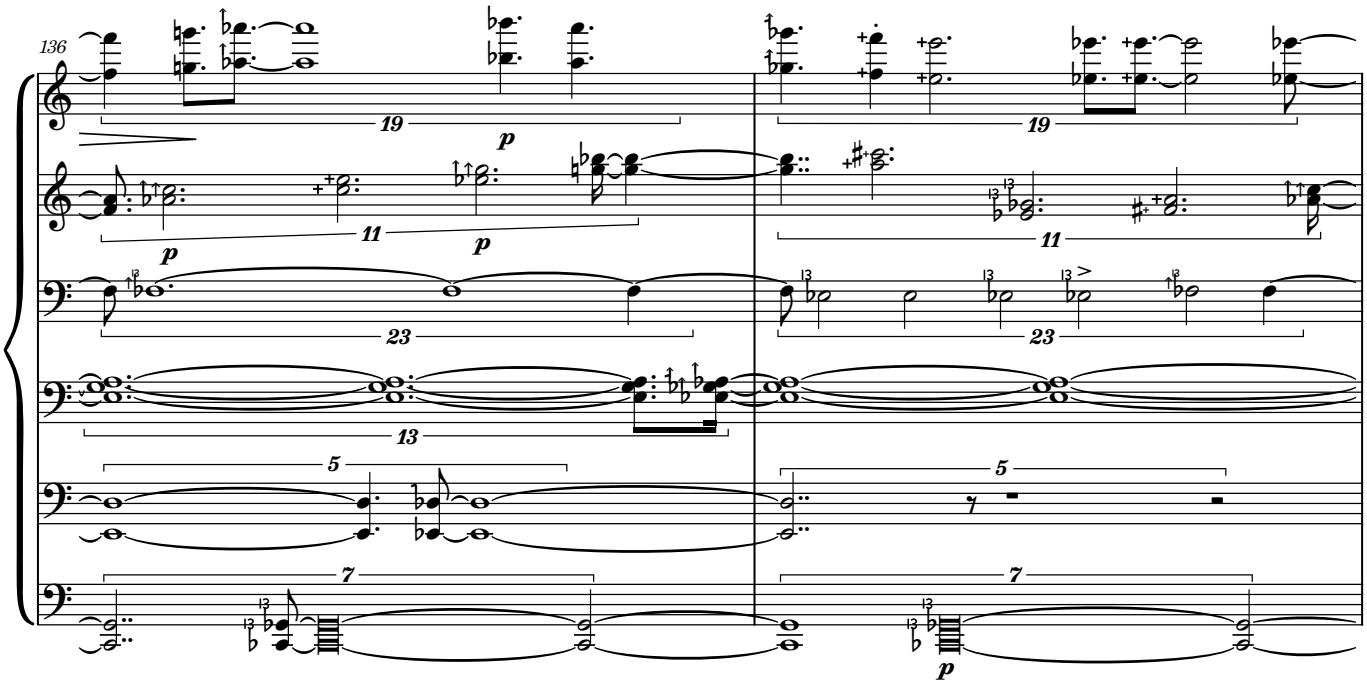

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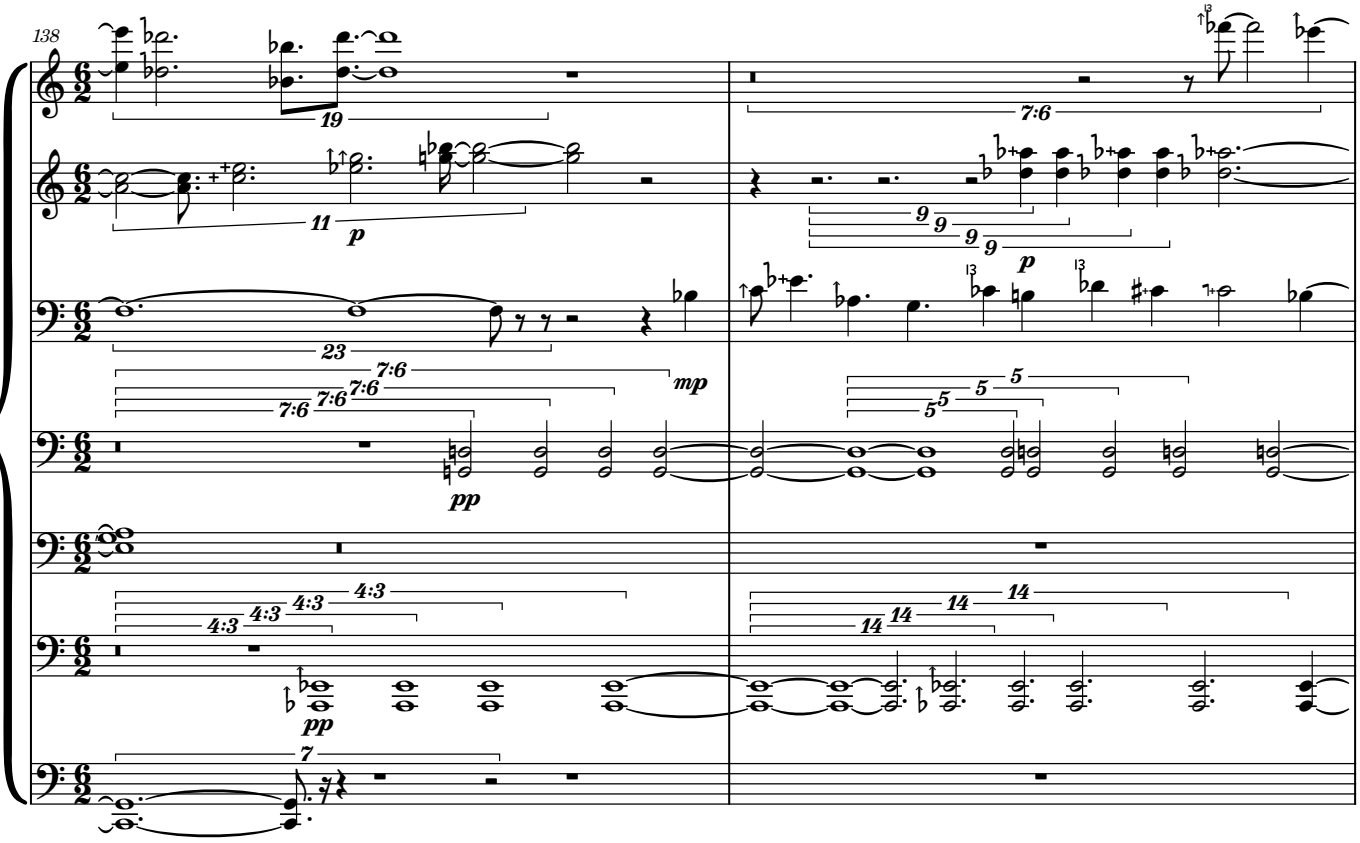

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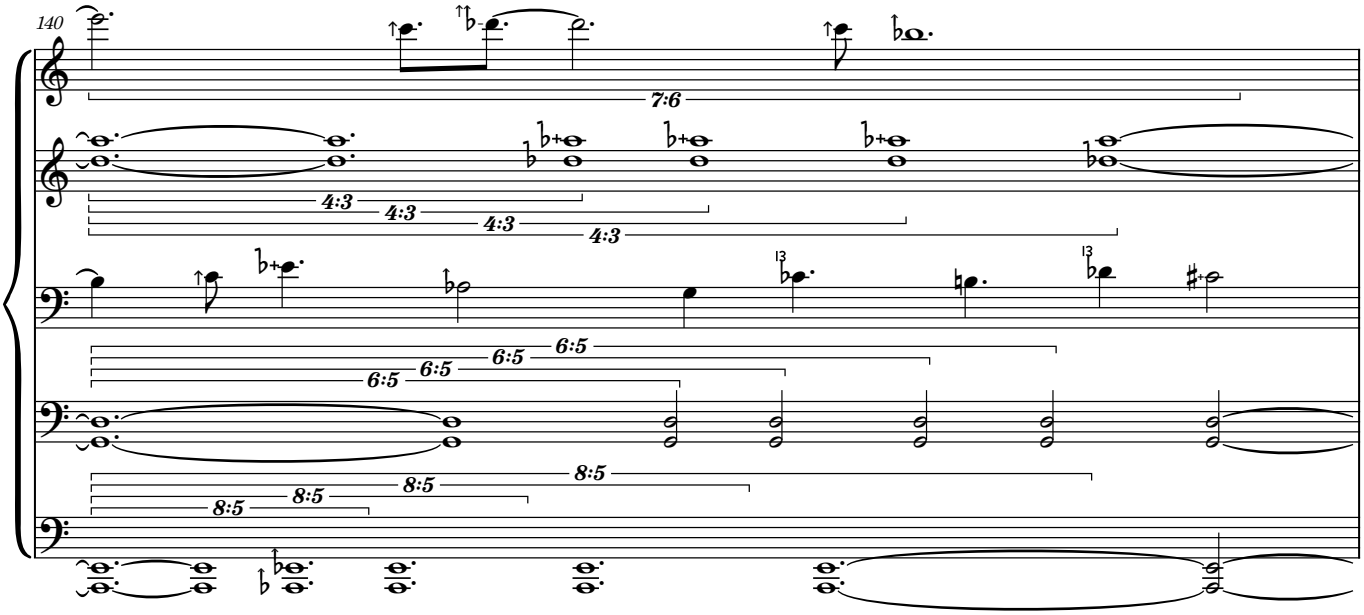

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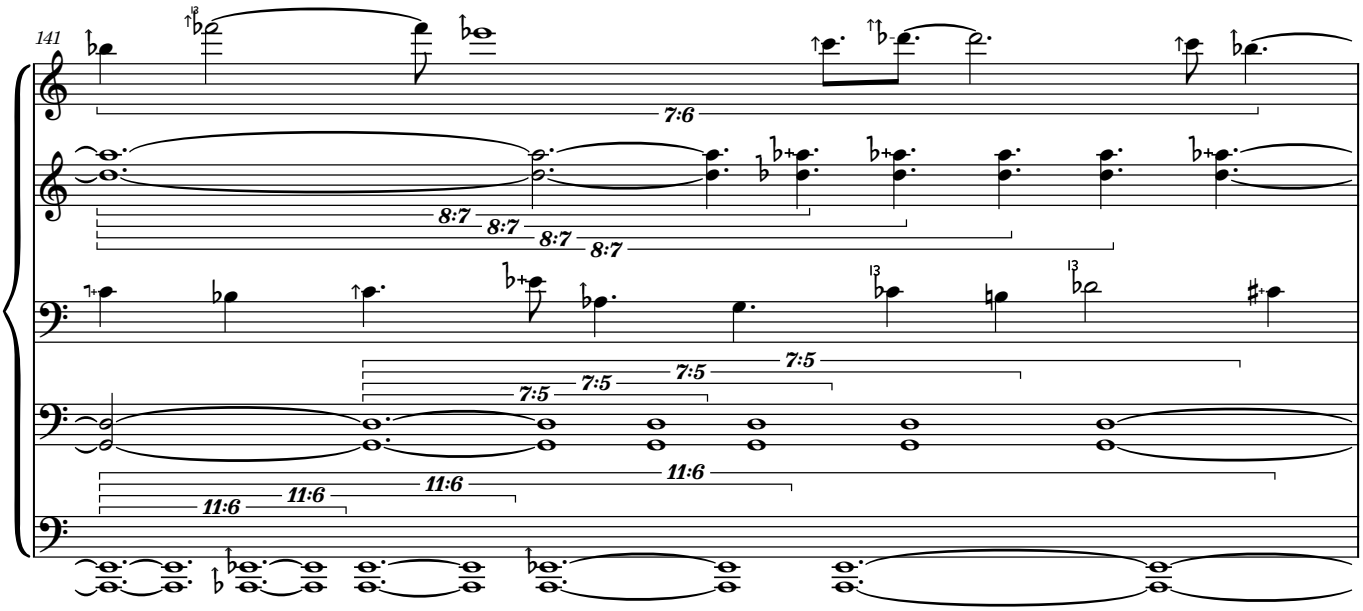

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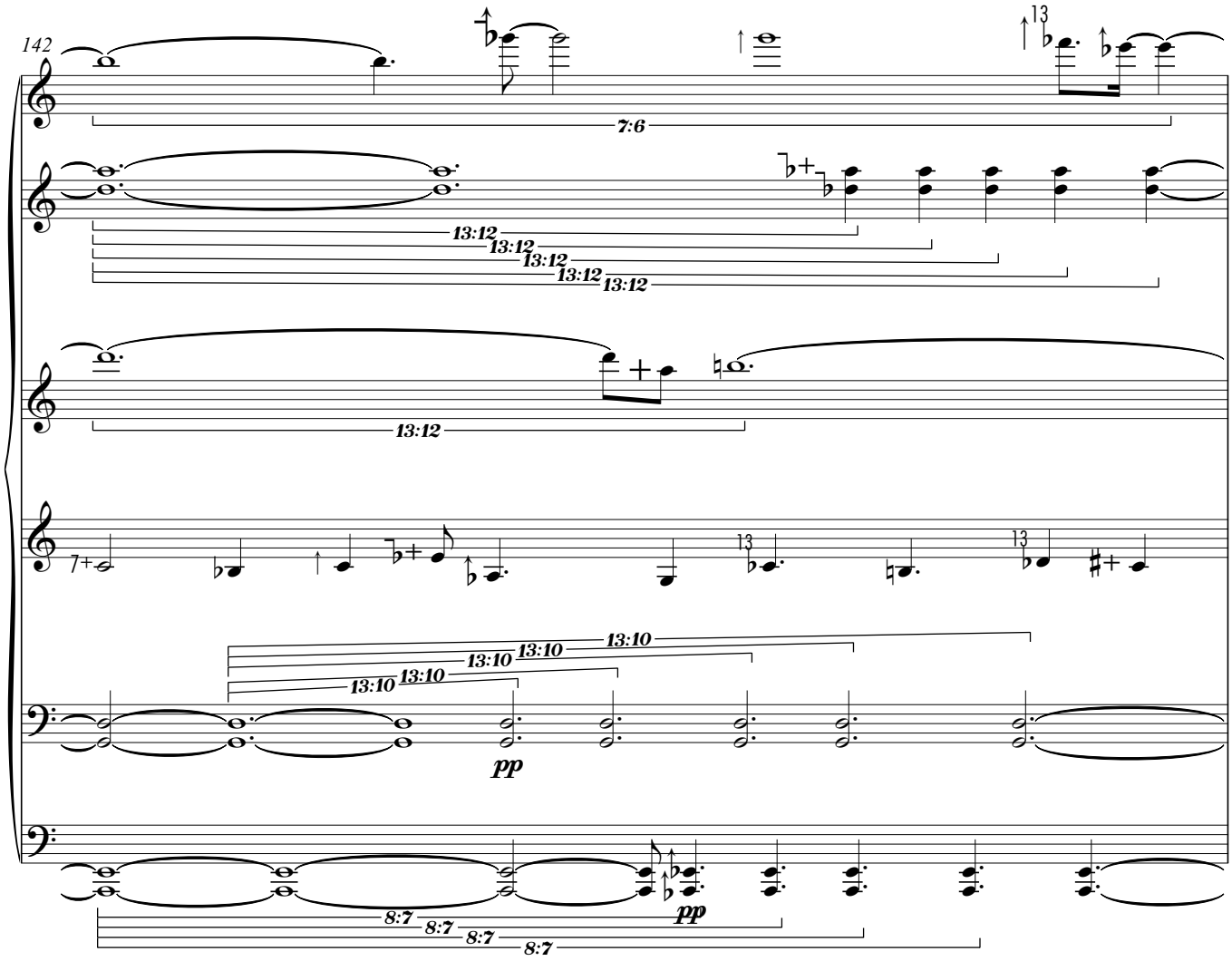

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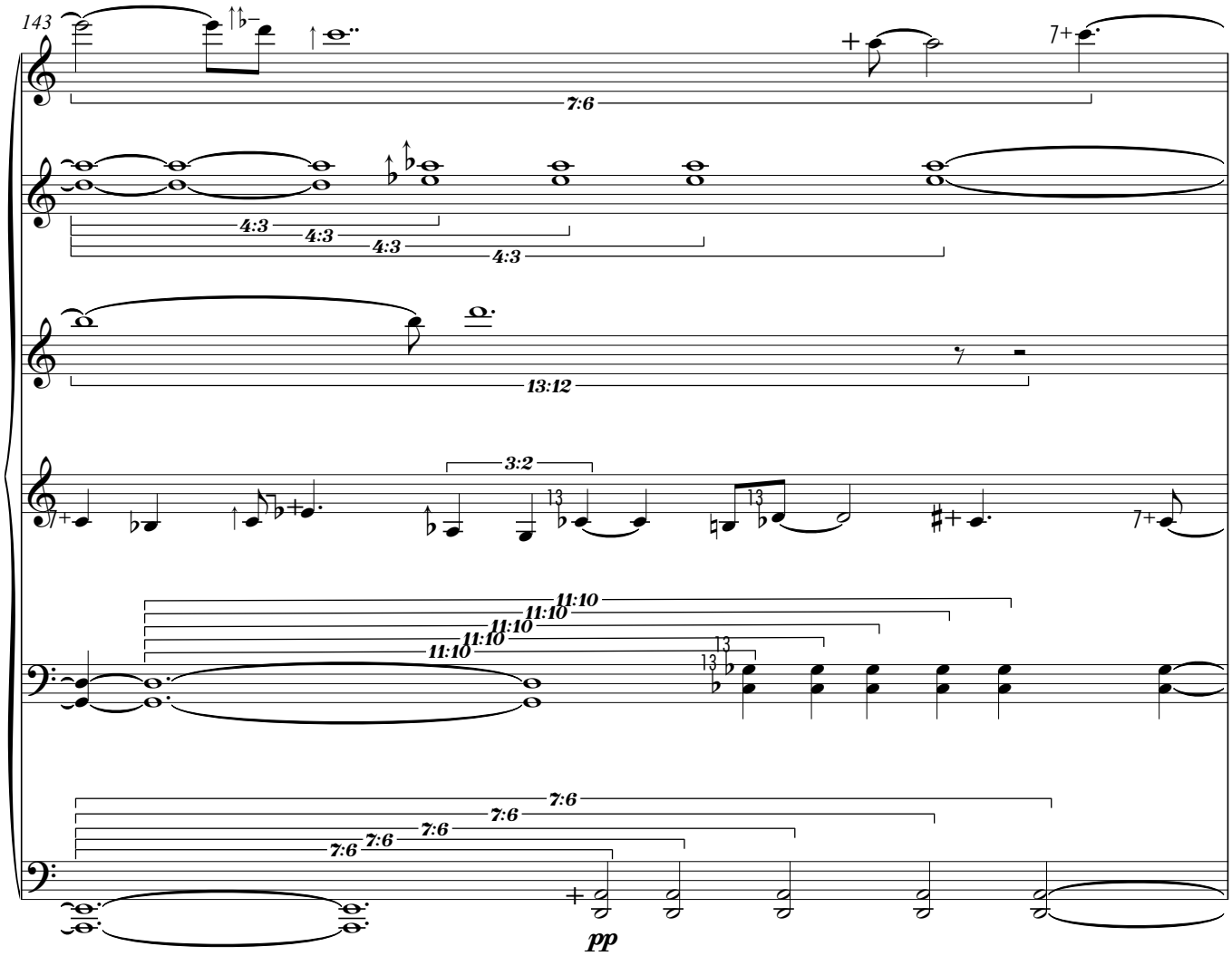

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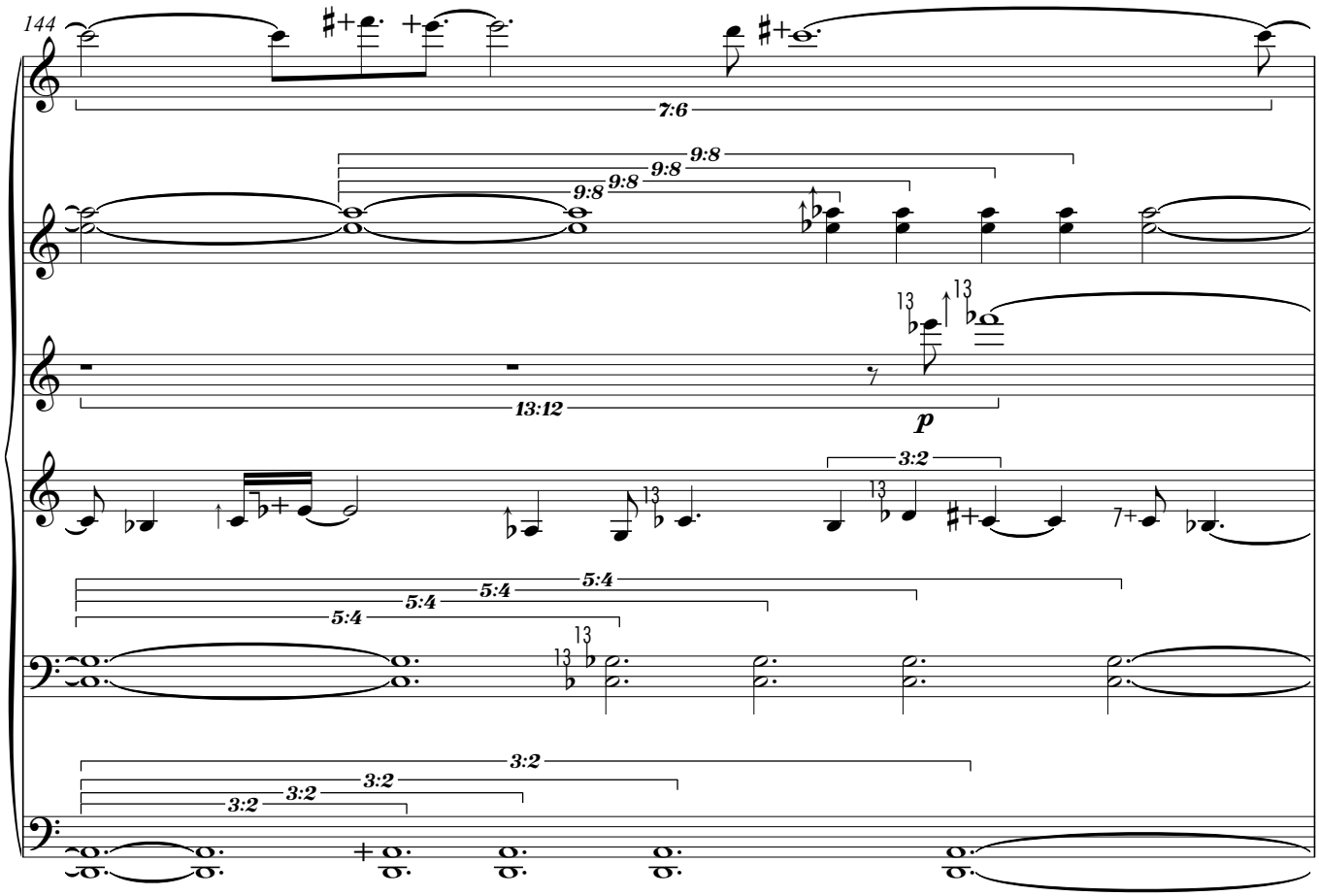

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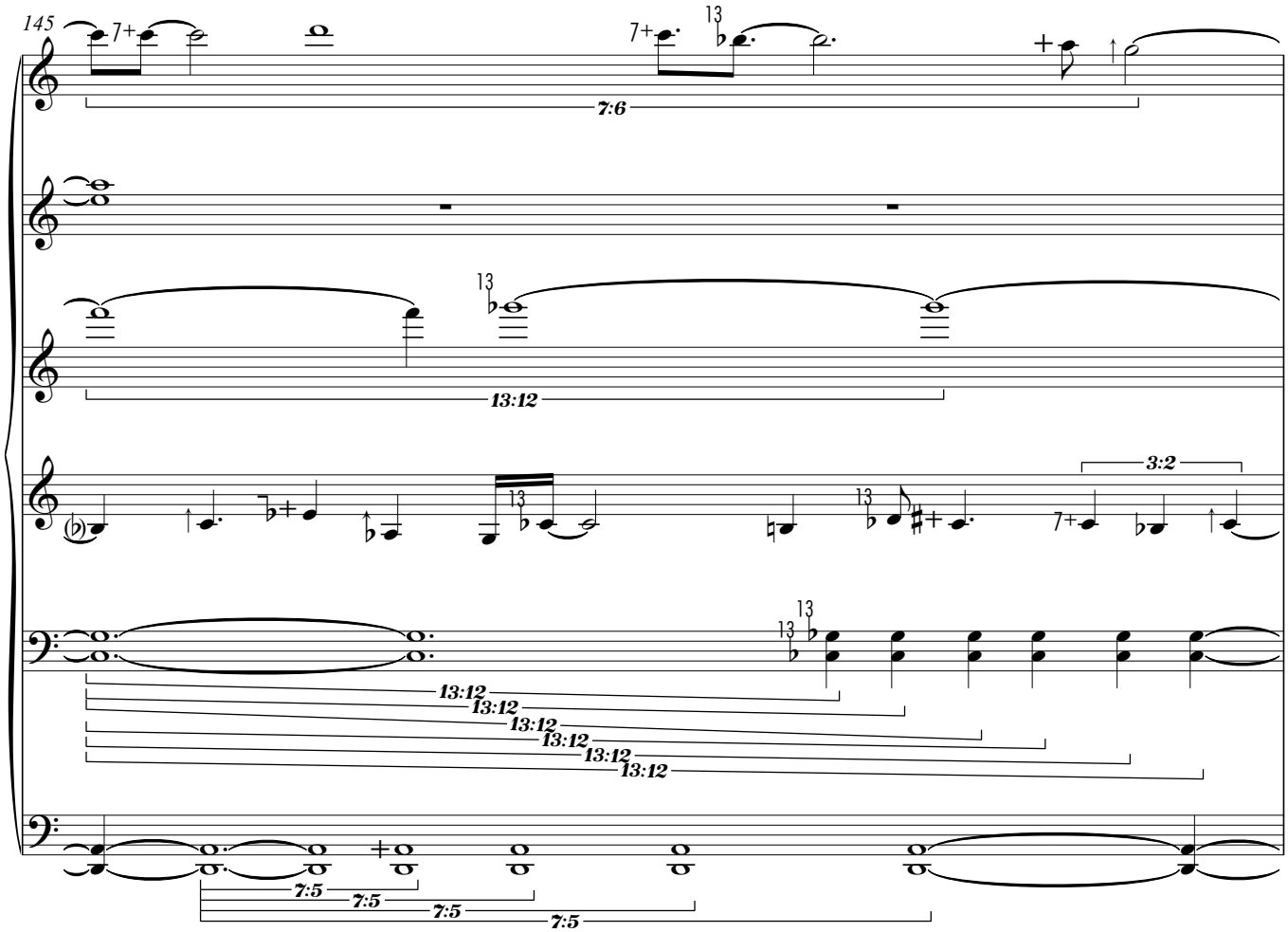

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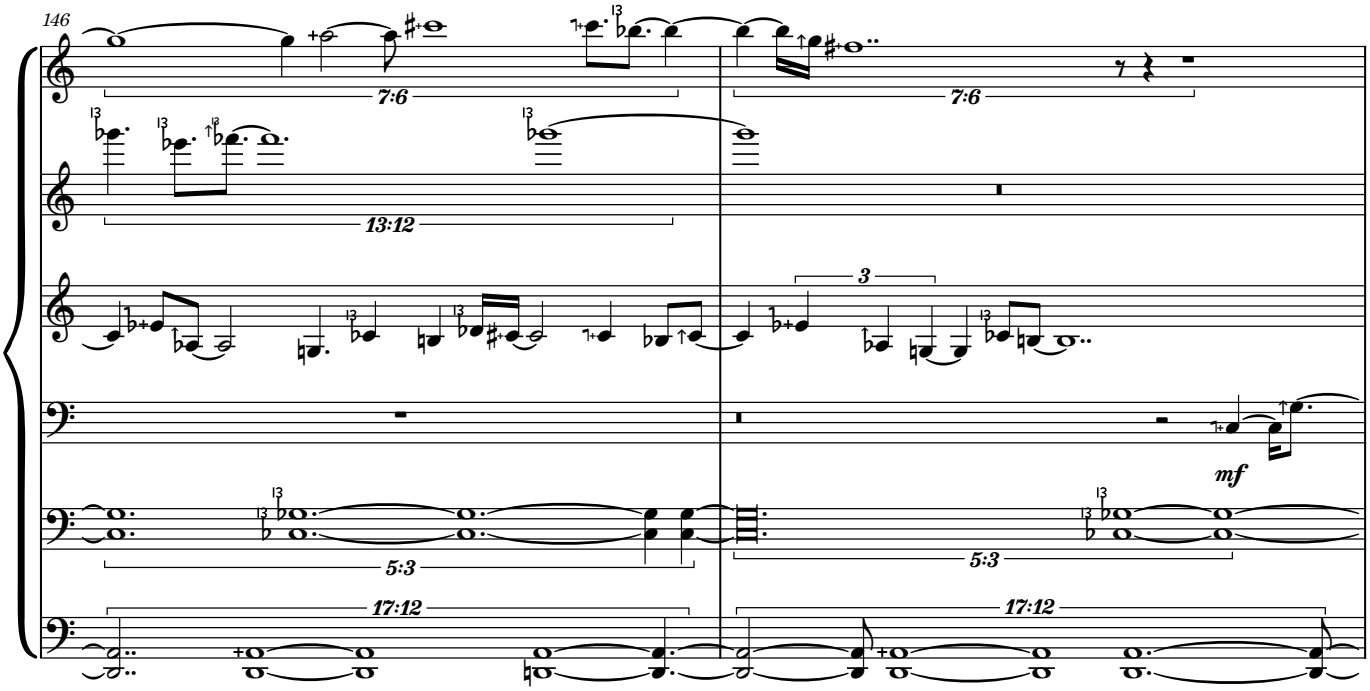

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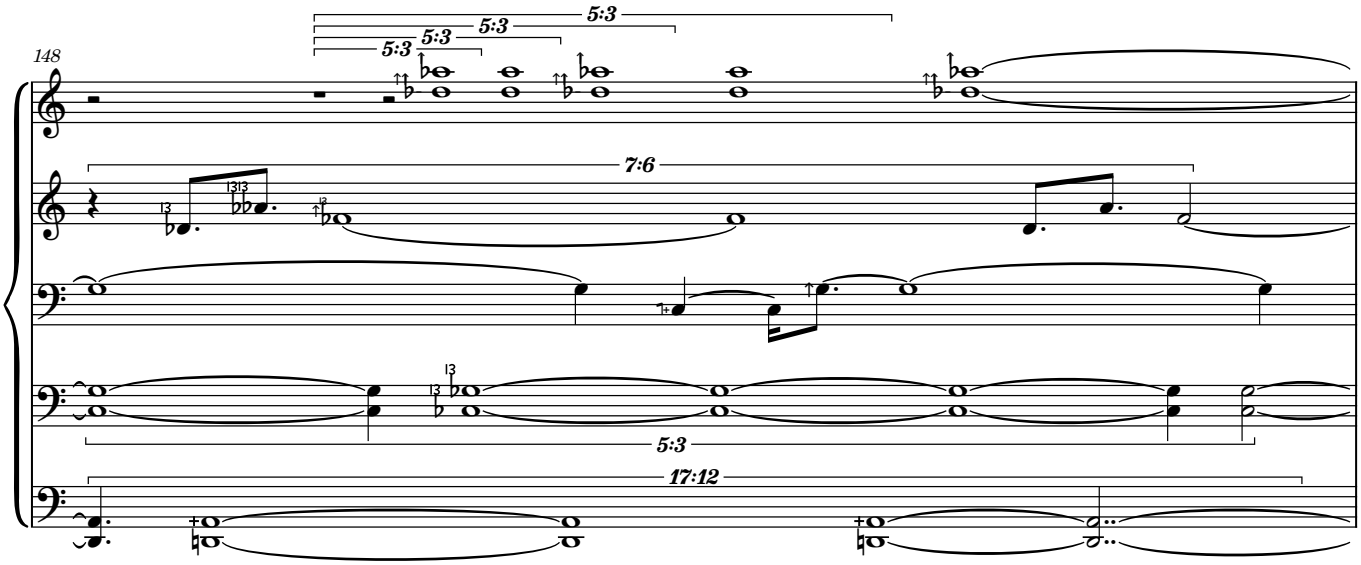

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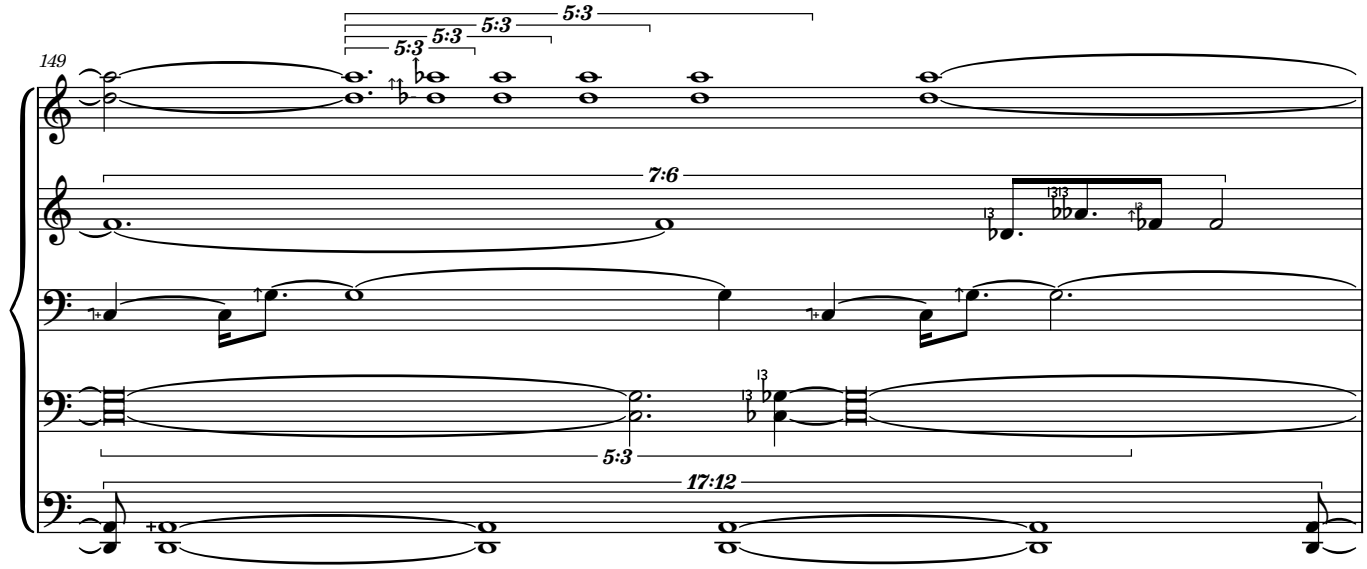

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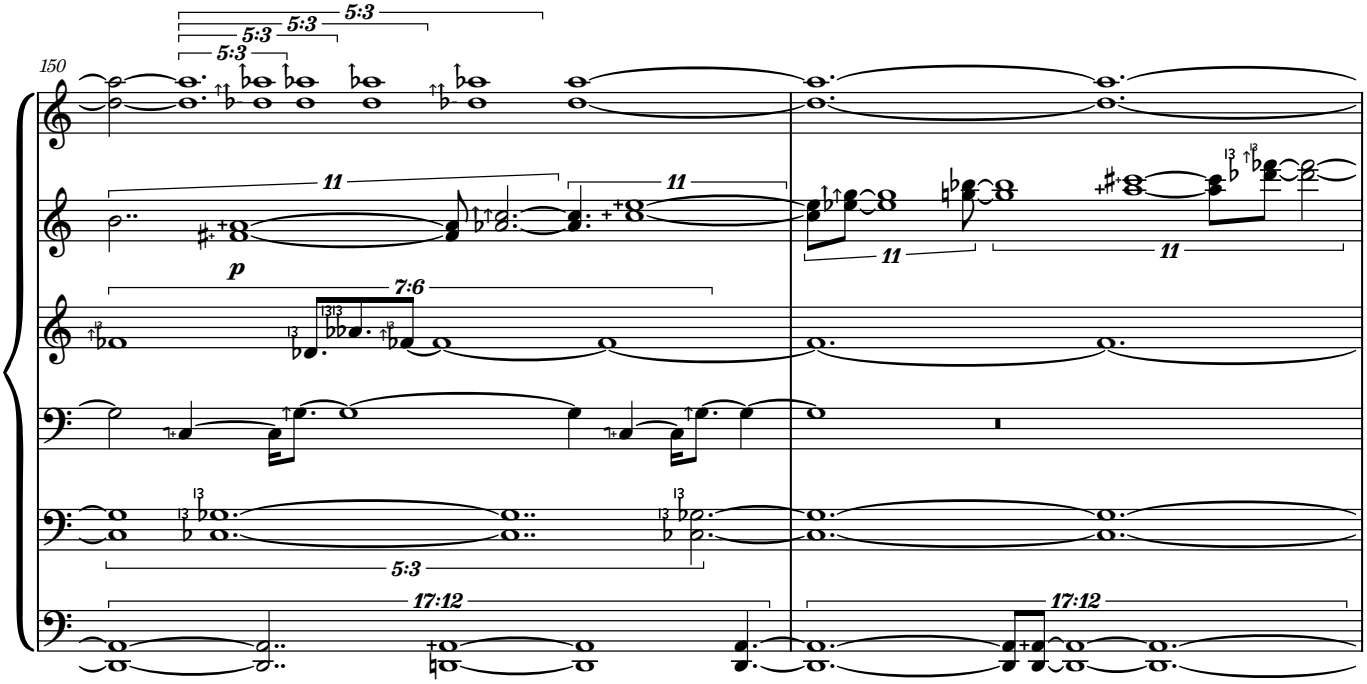

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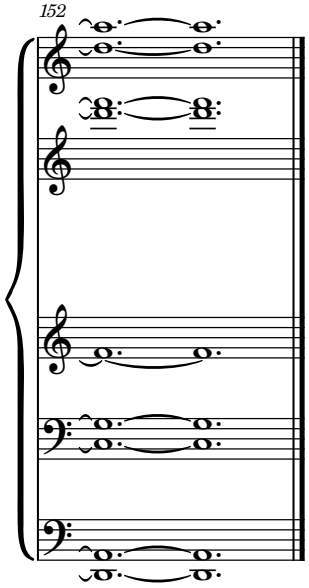

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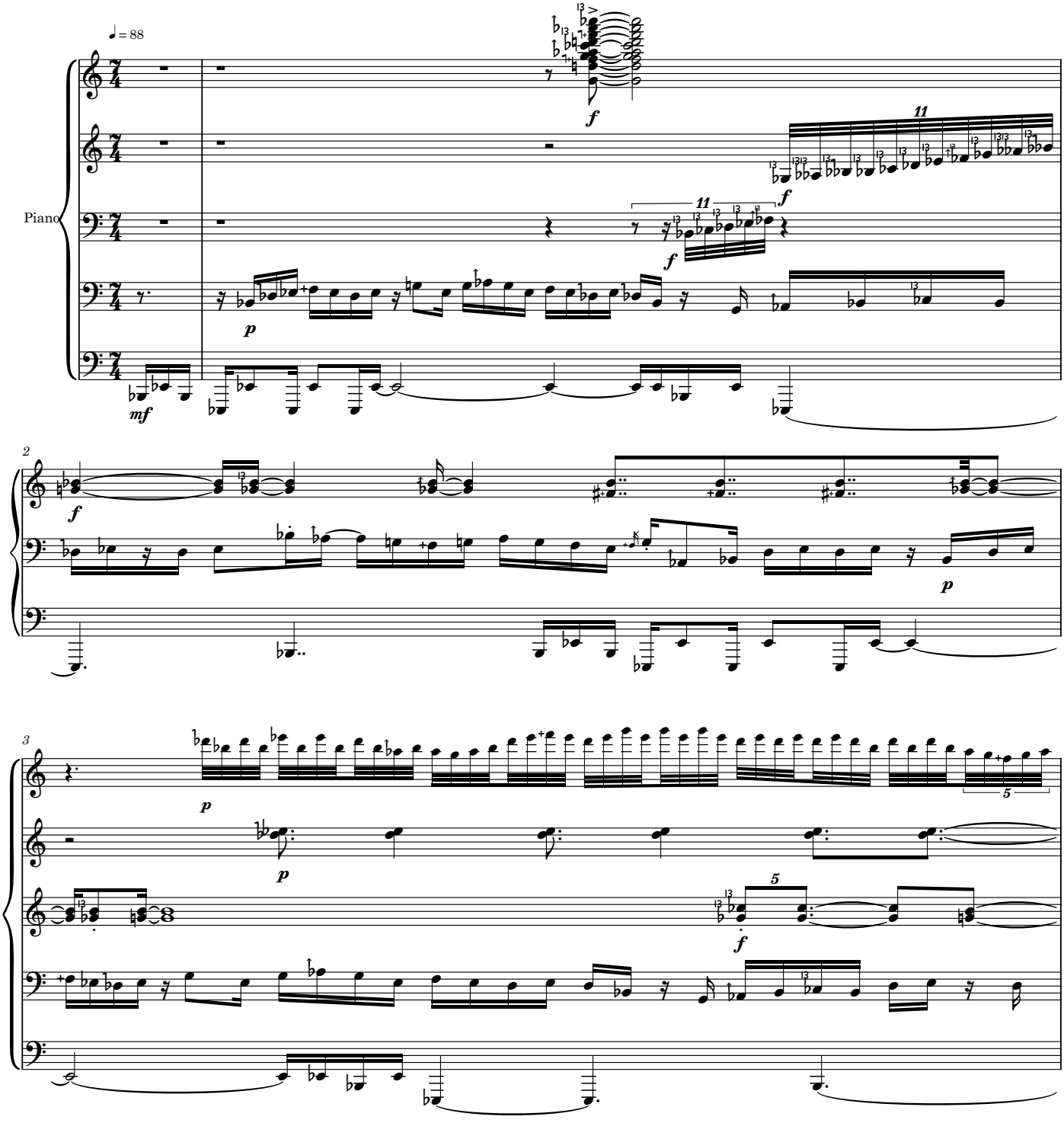

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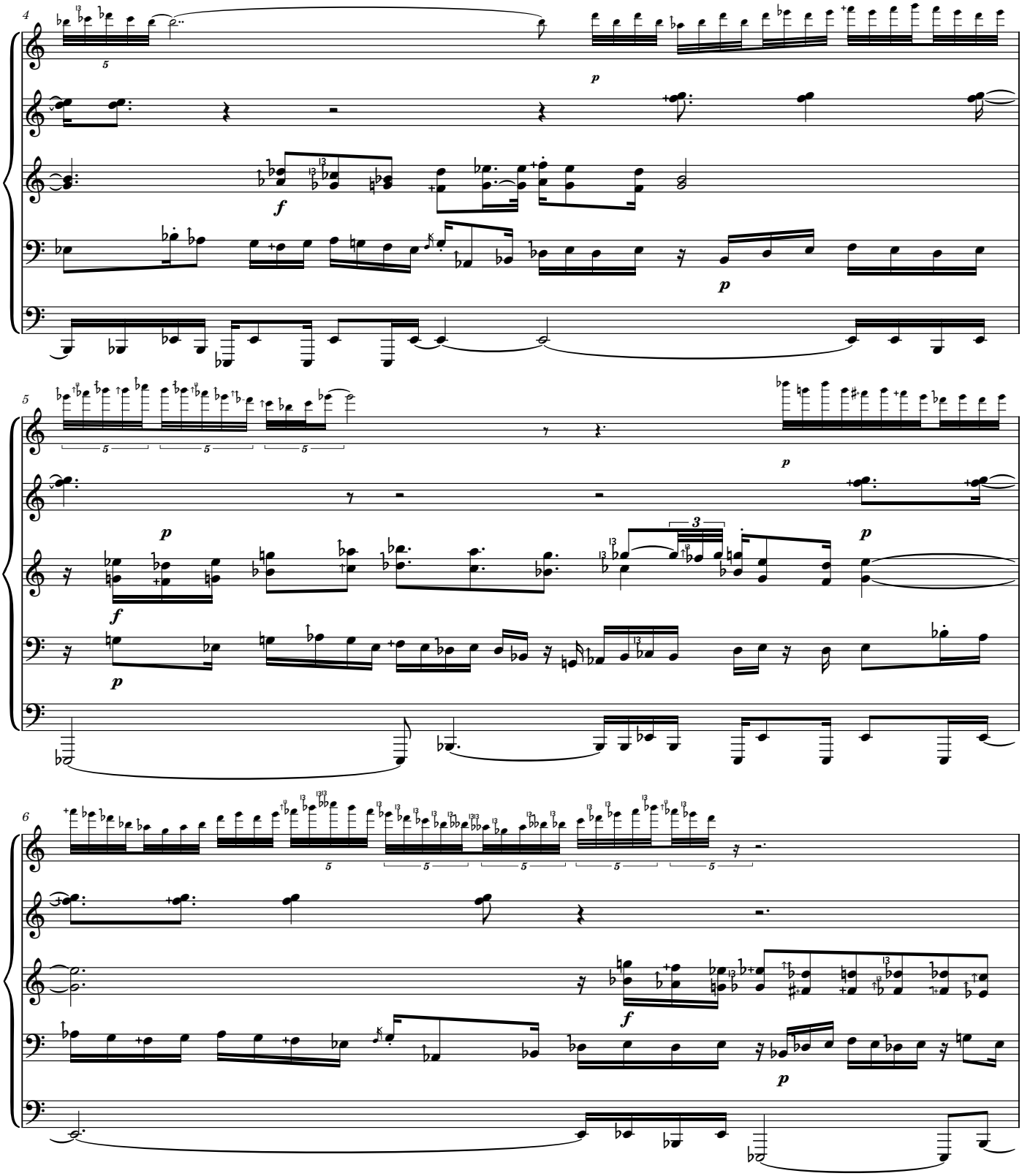


July 10 - August 20, 2016
Lightly revised July 18, 2017
Germantown, NY
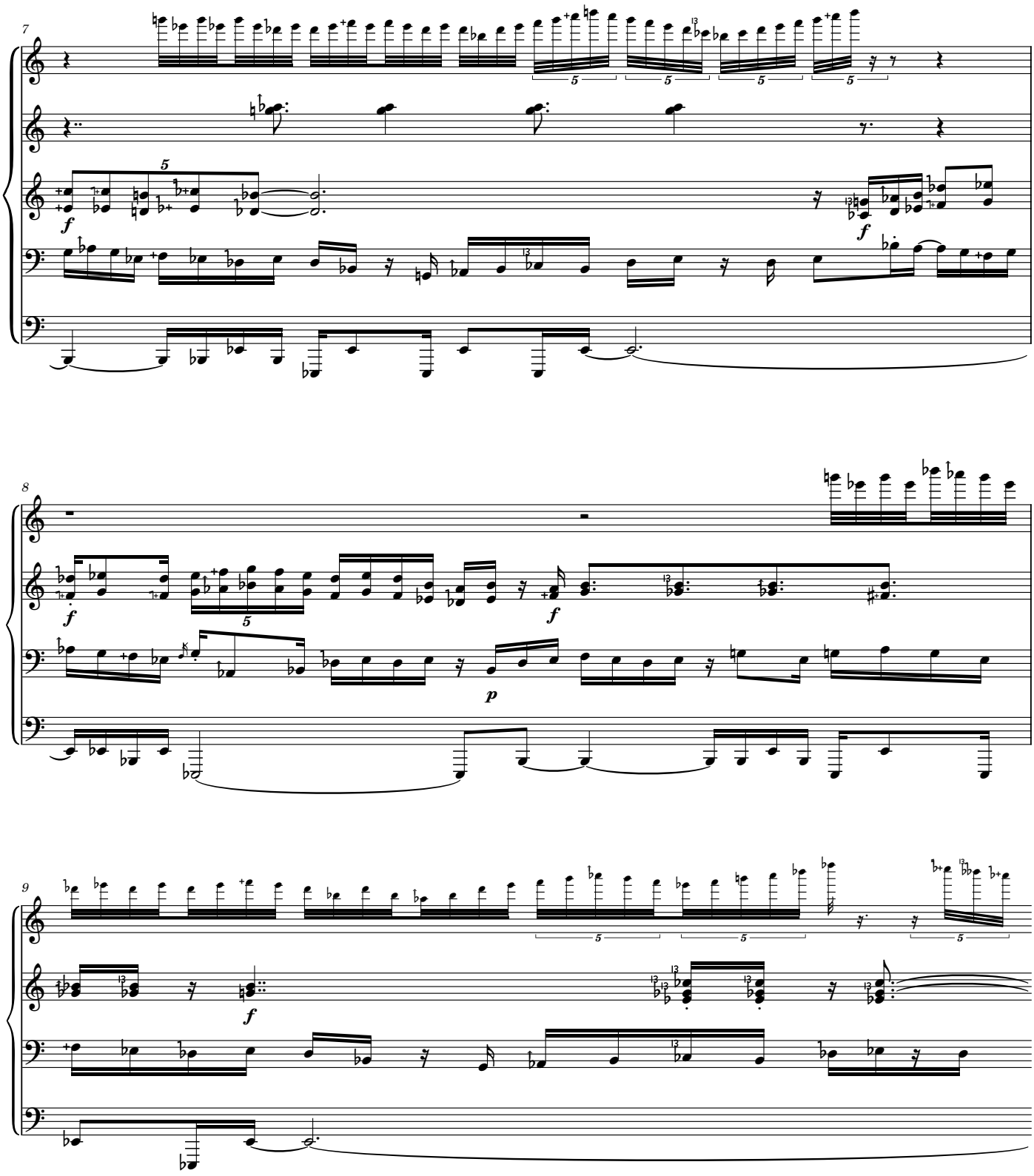
Galactic Jamboree

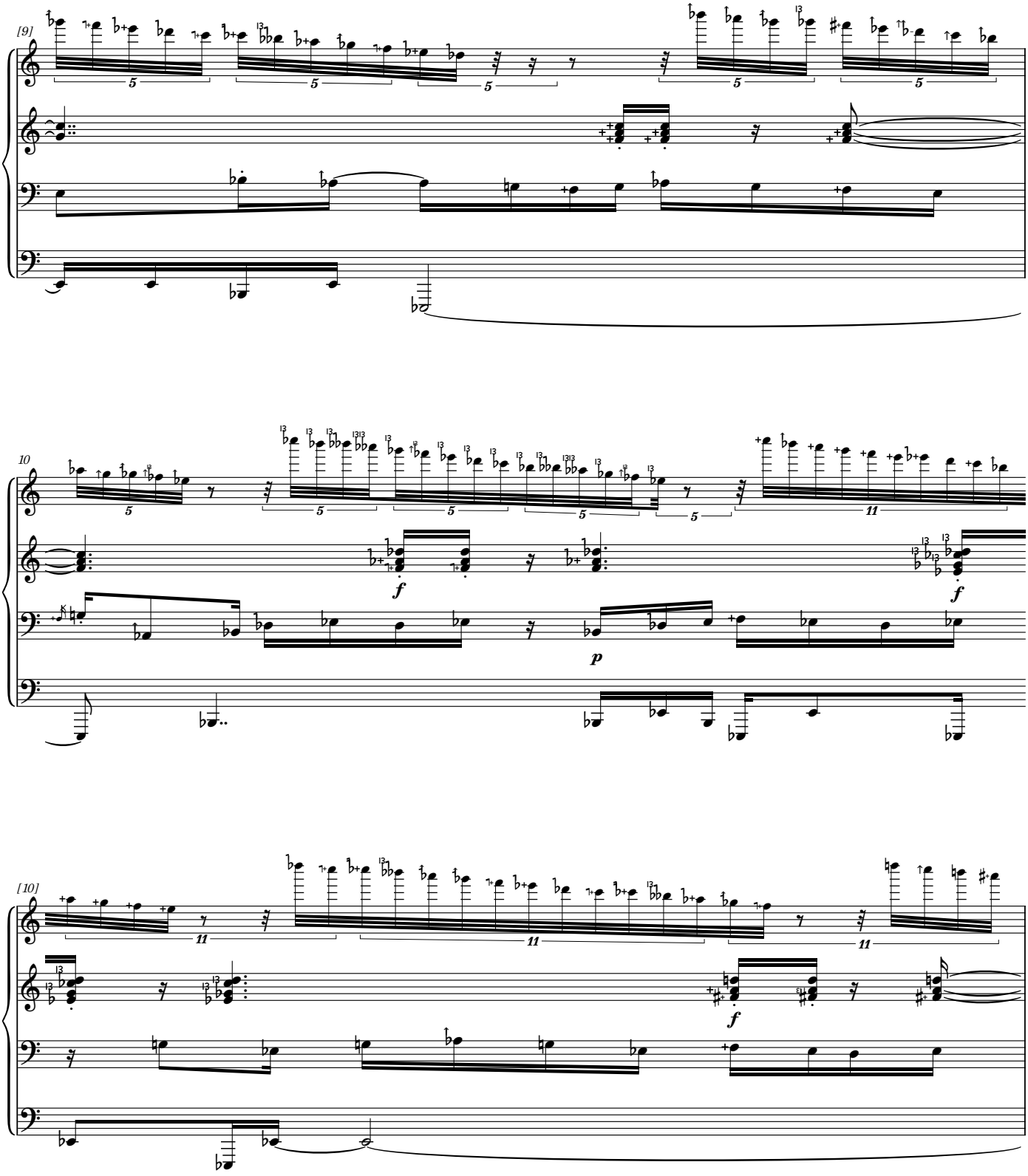
Kyle Gann
2016
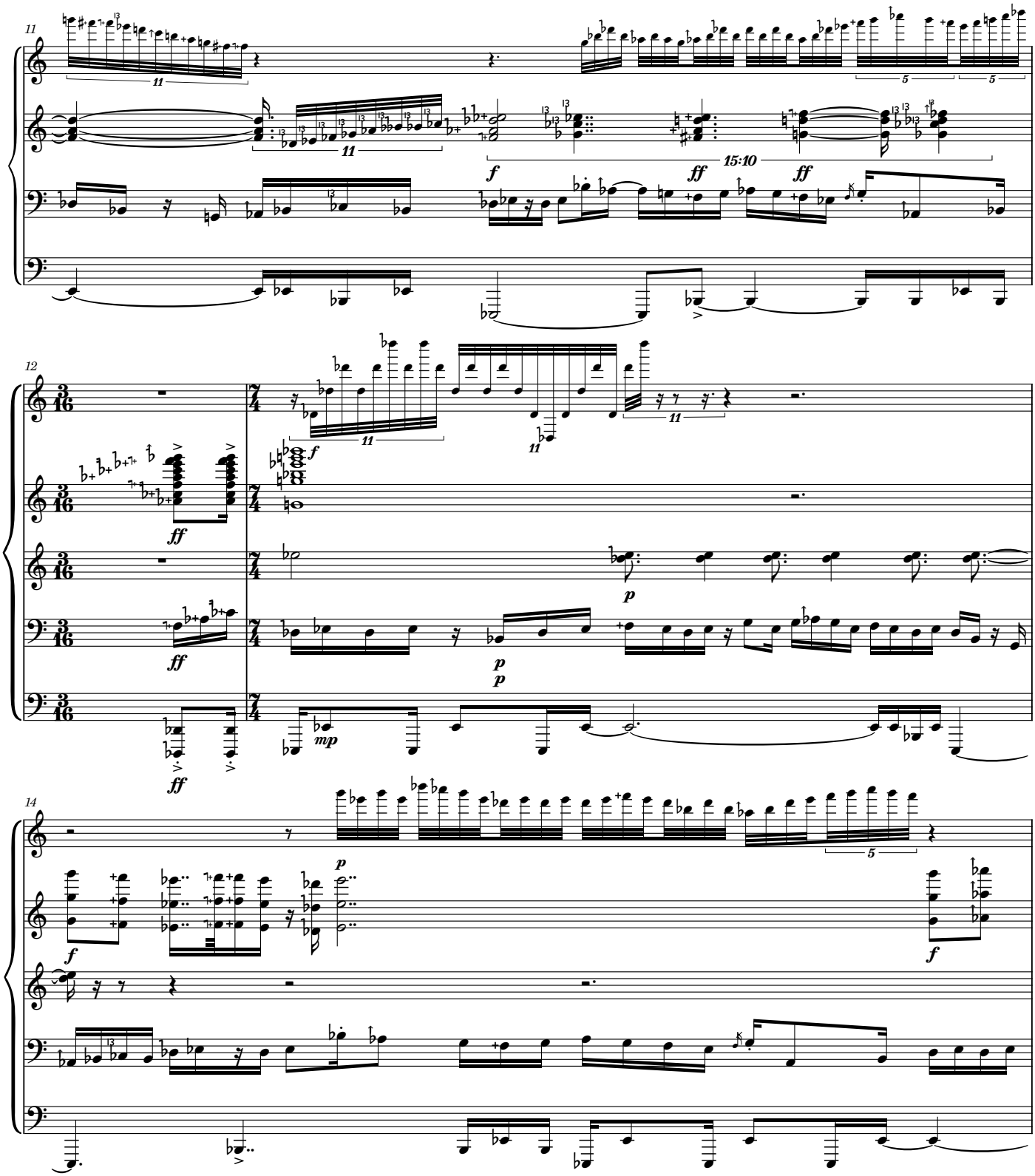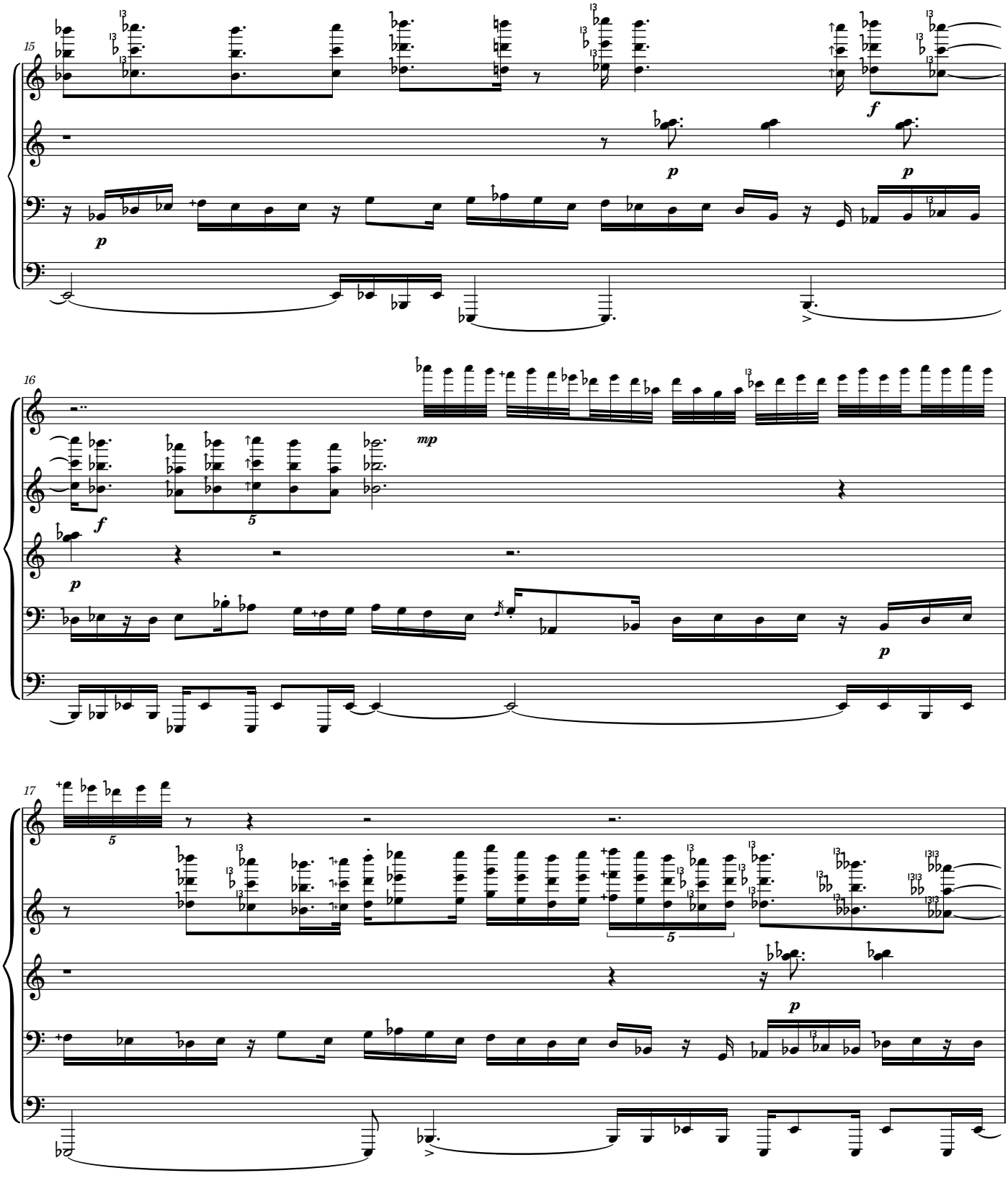


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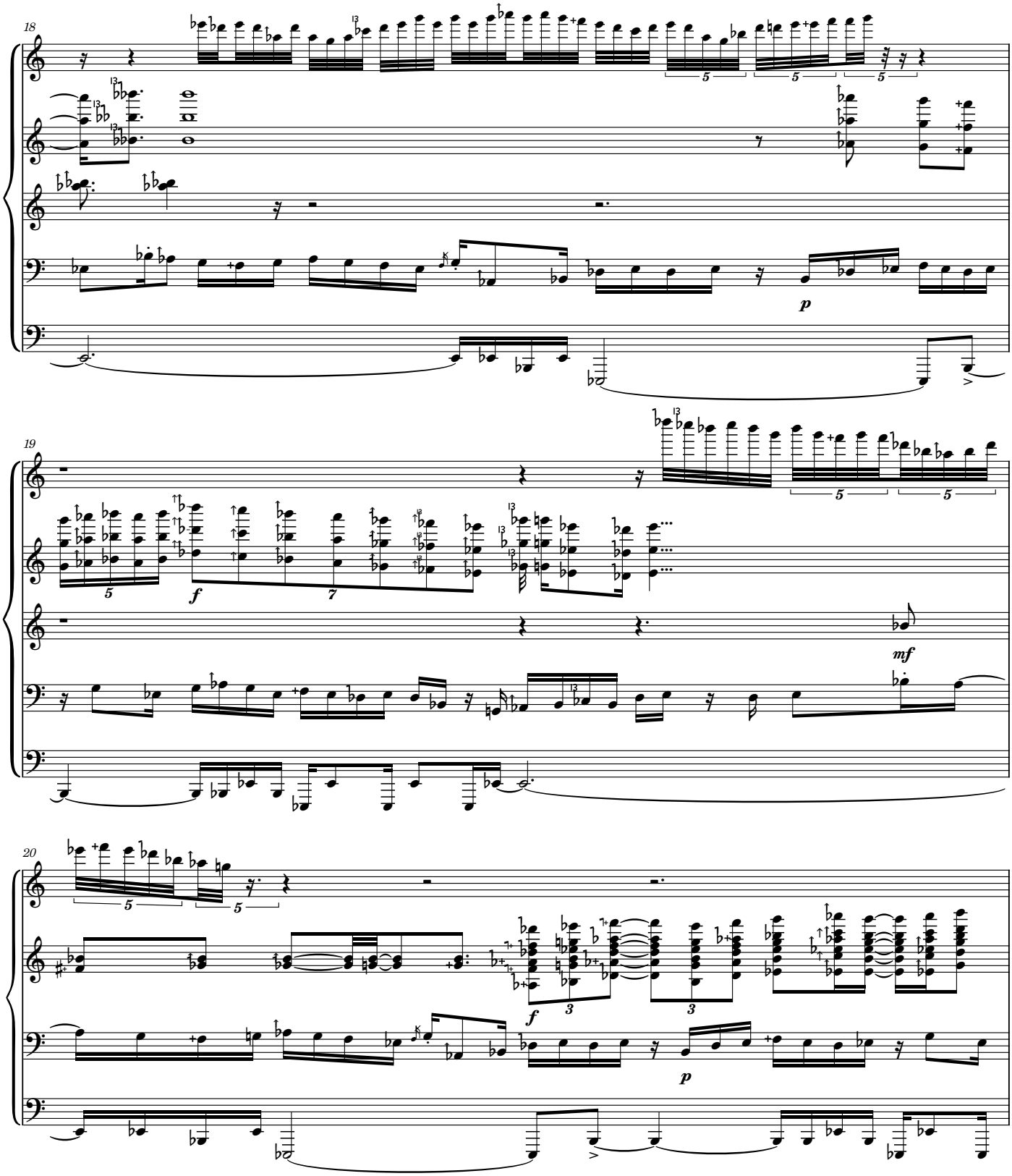

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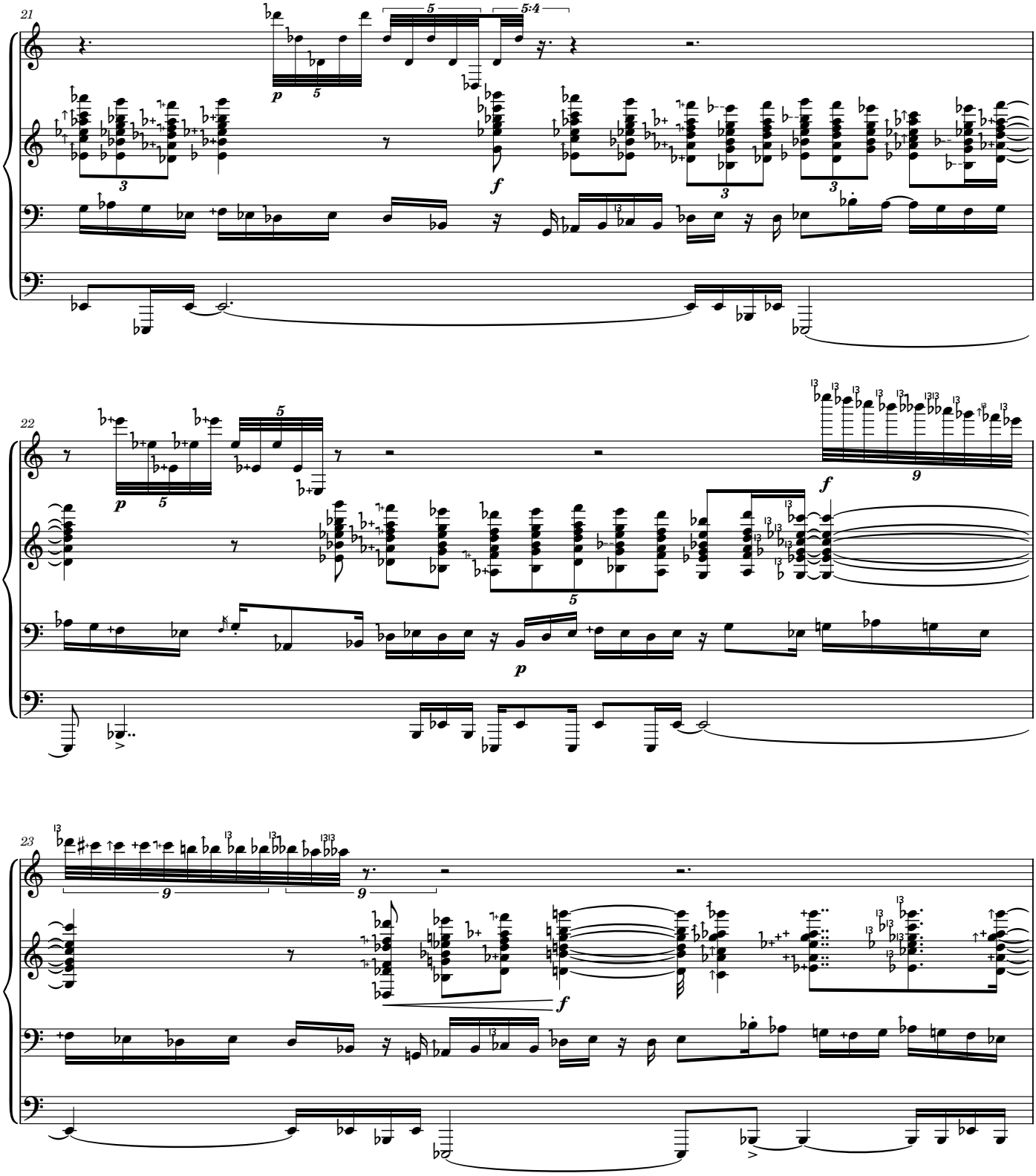

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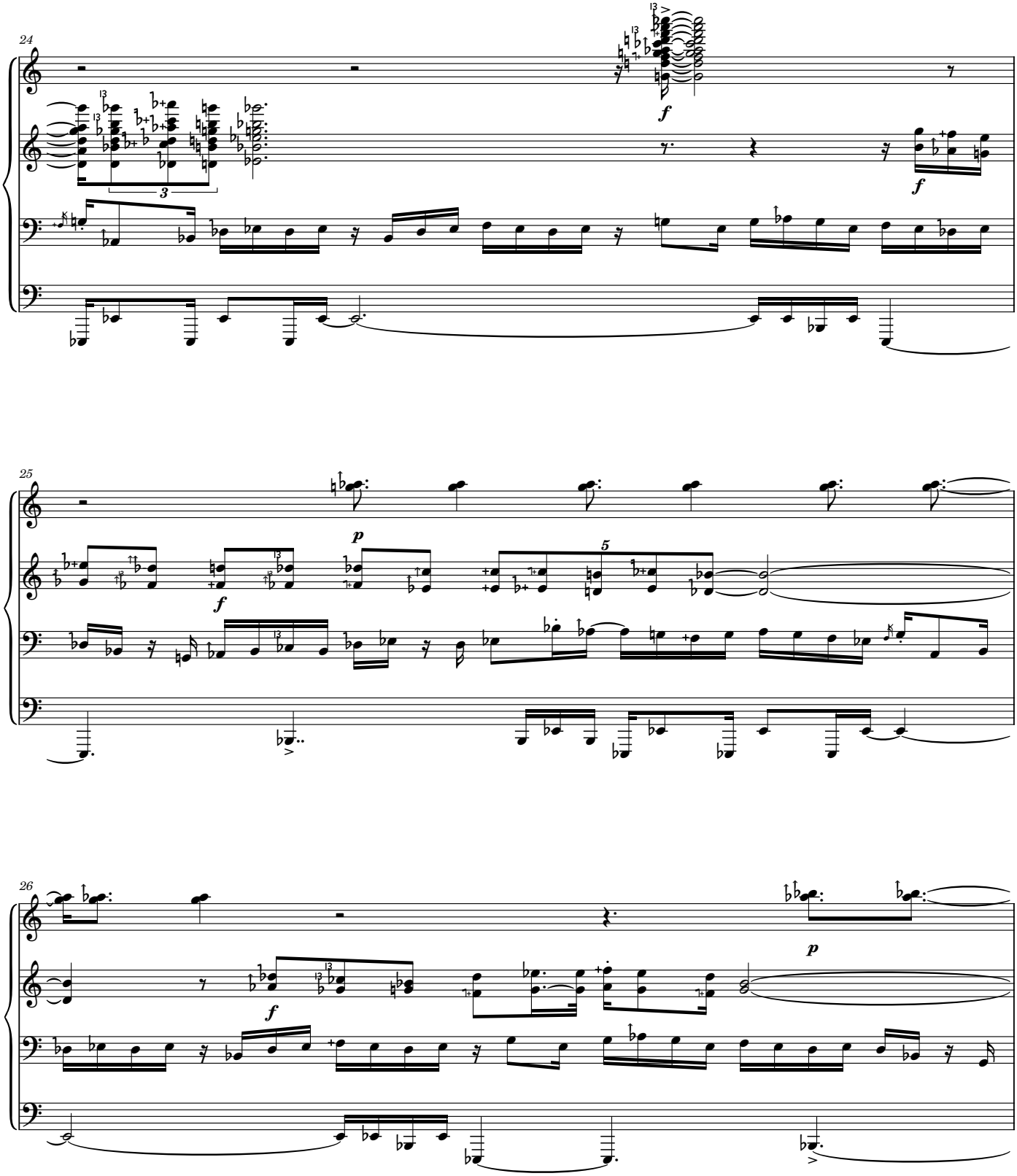

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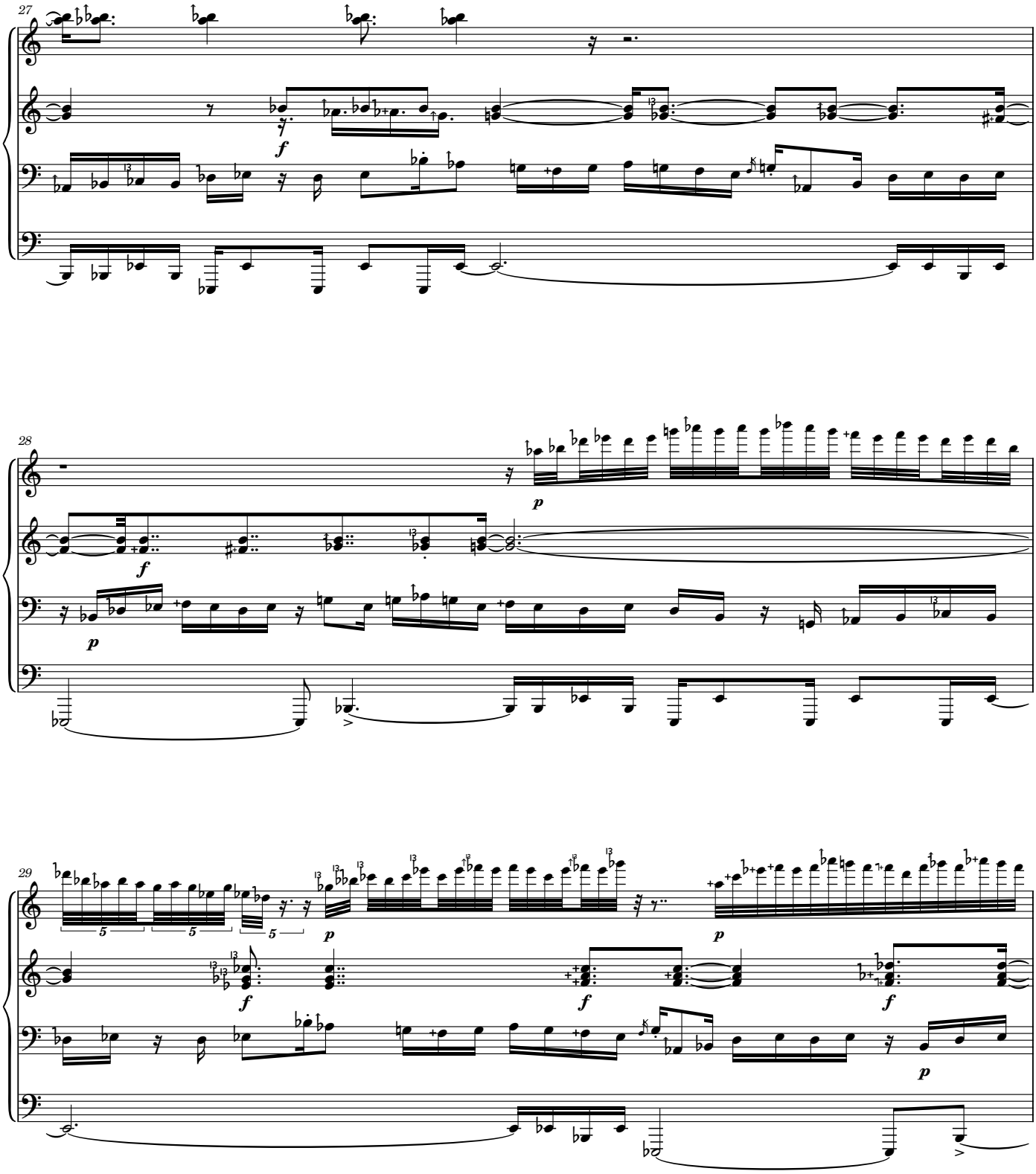

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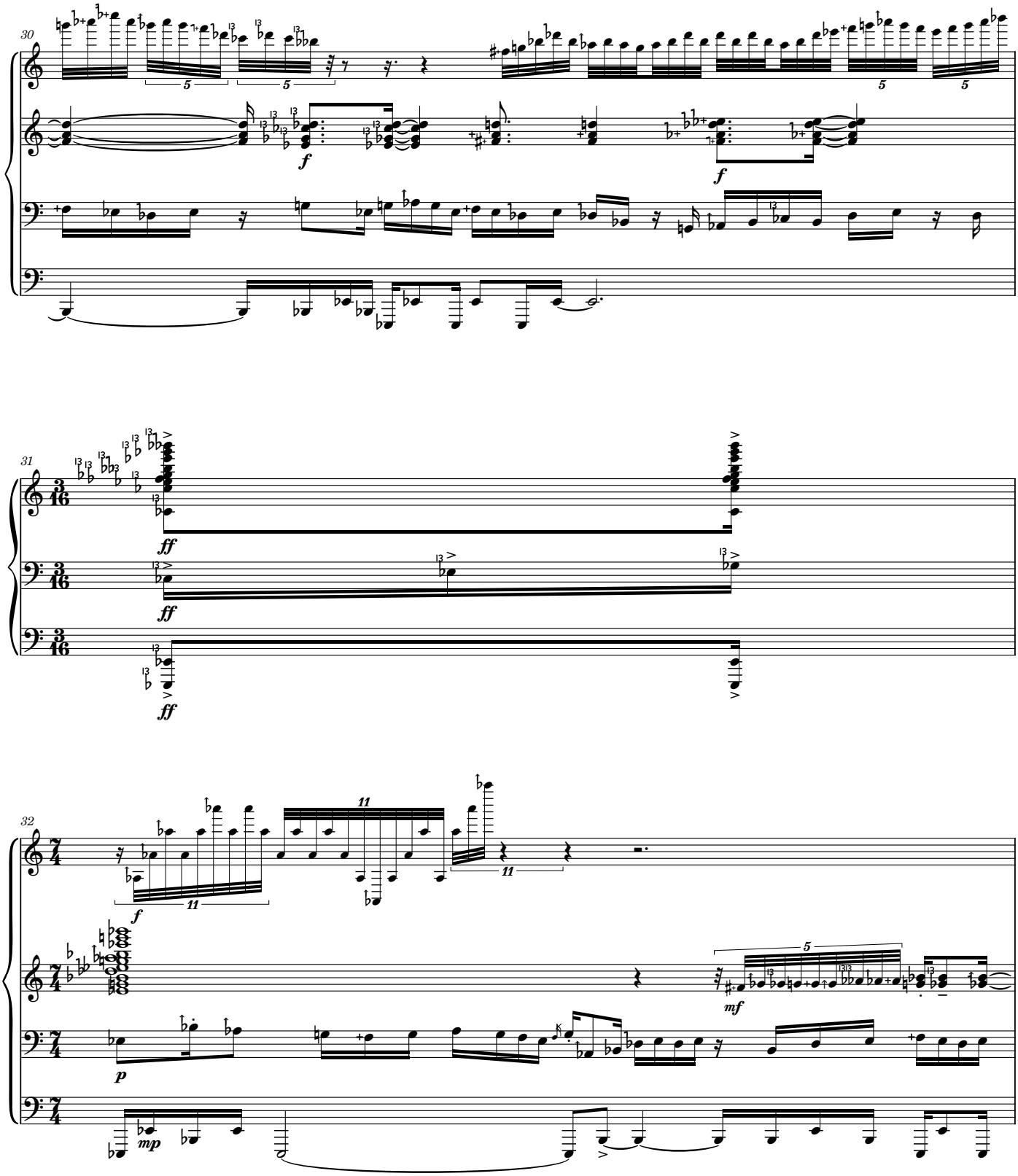

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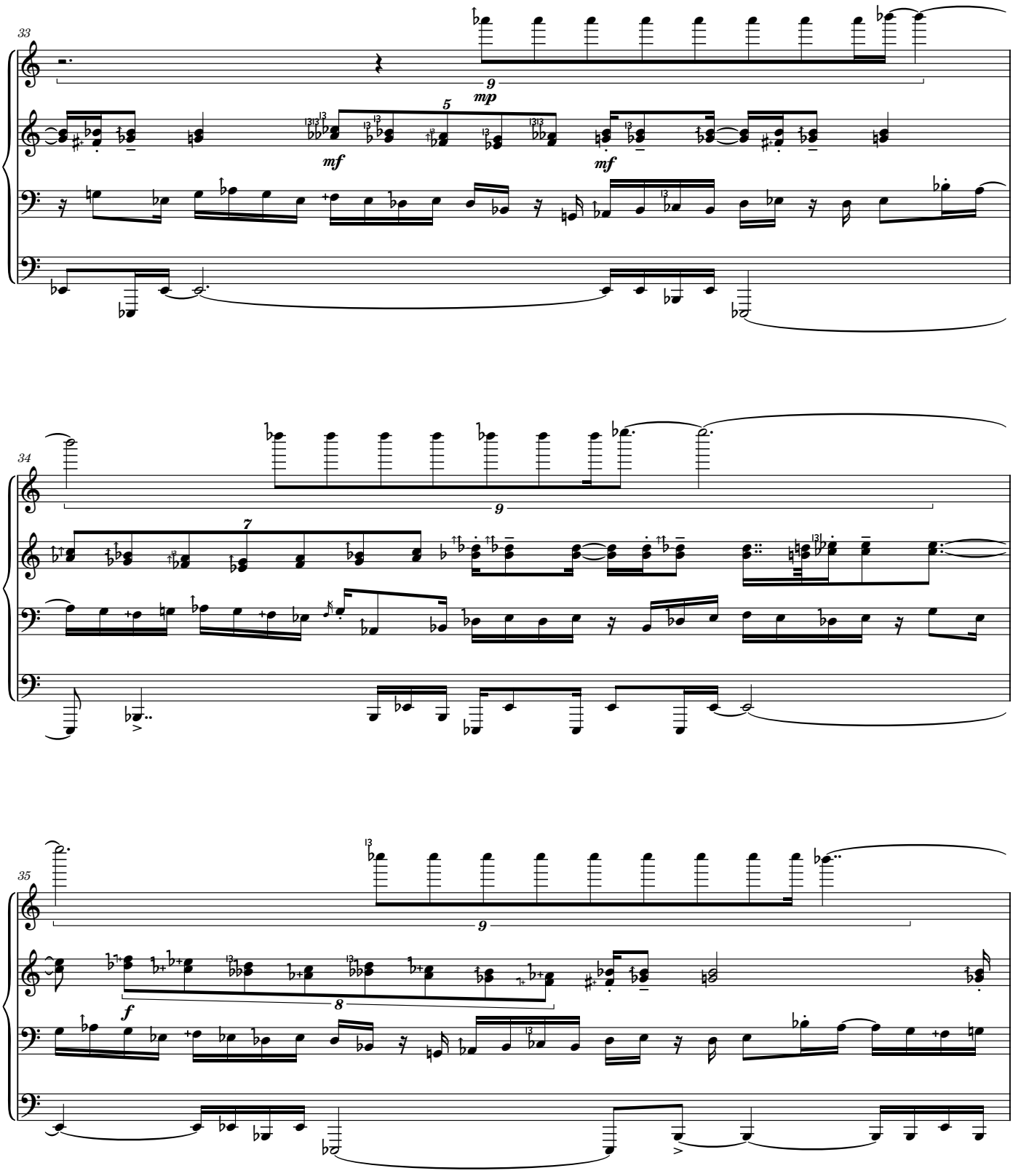

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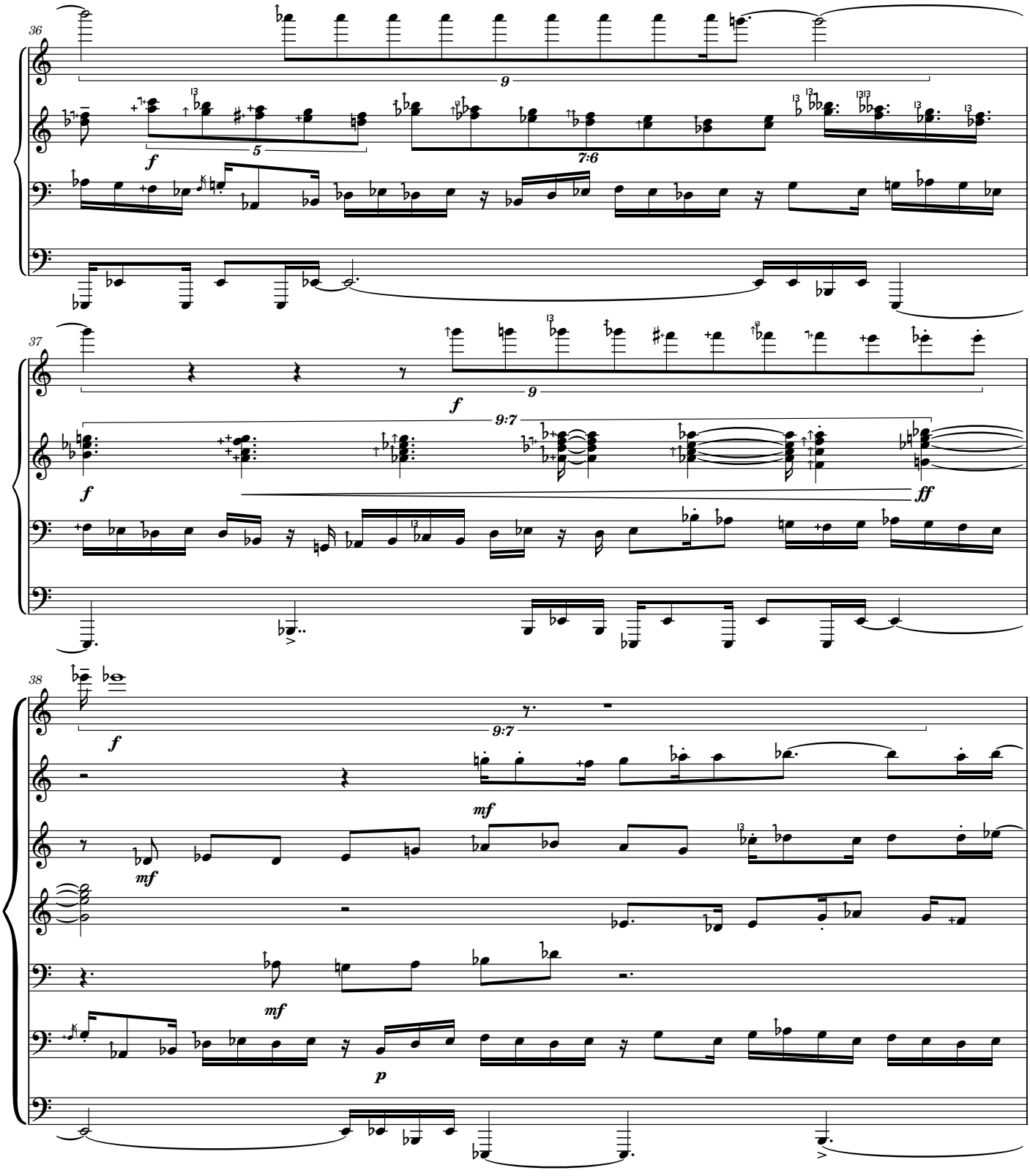

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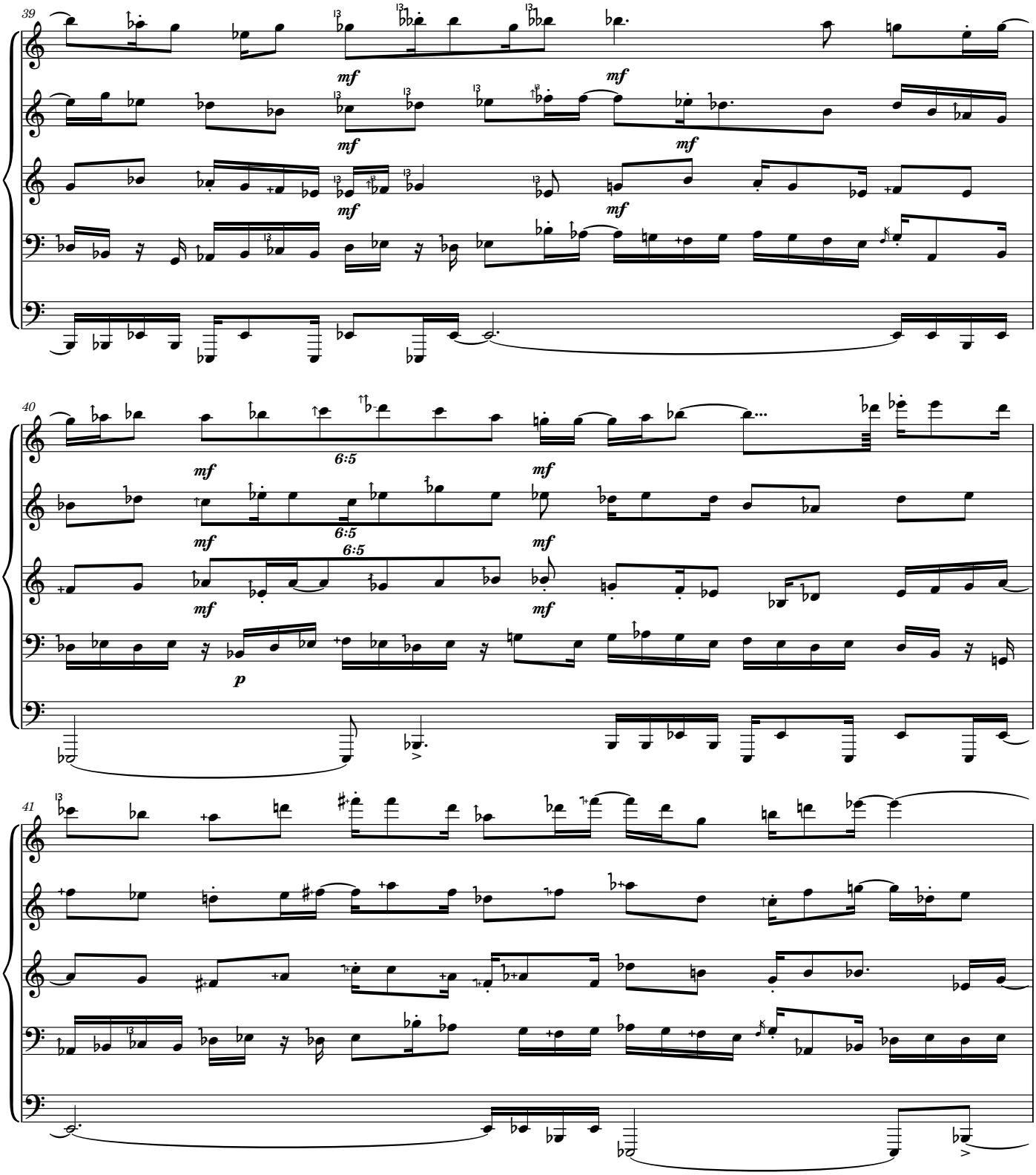

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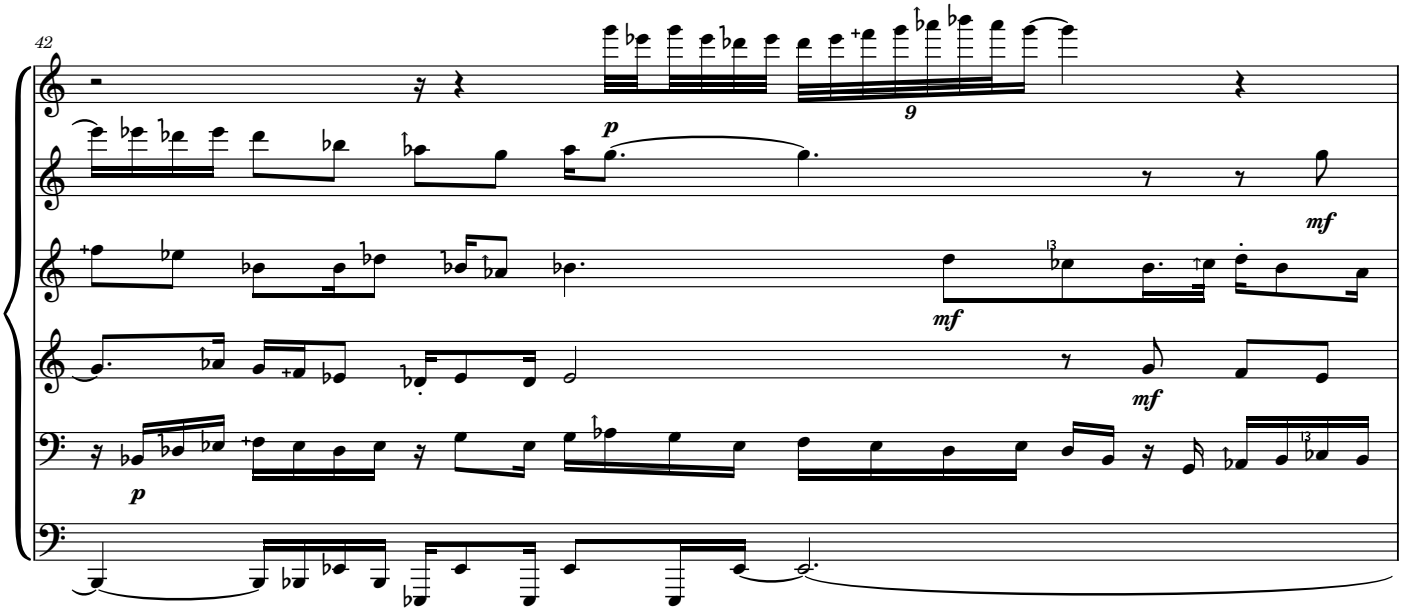

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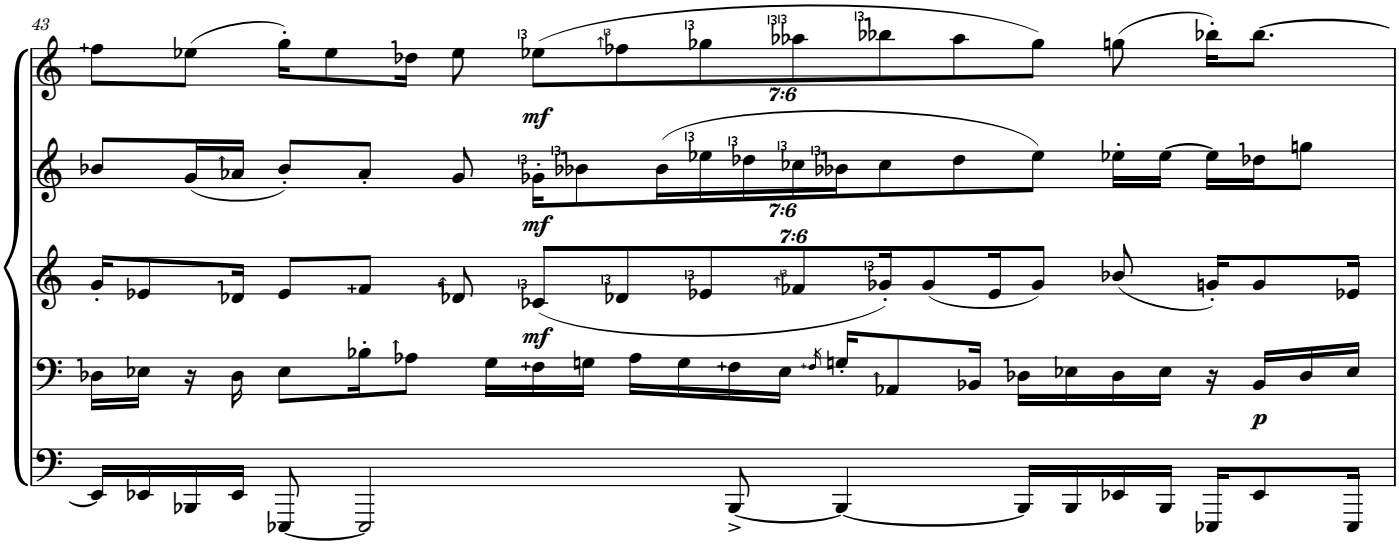

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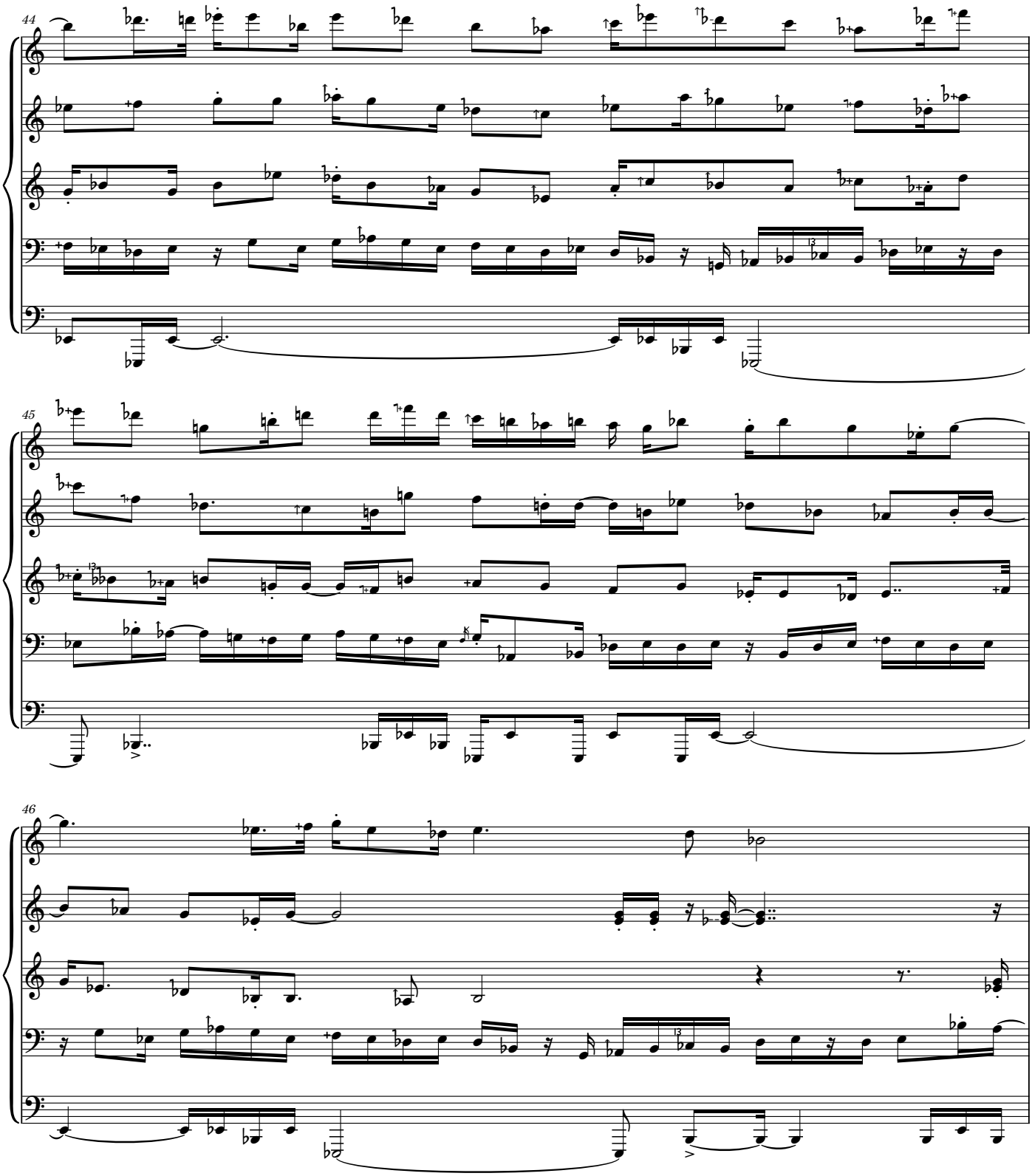

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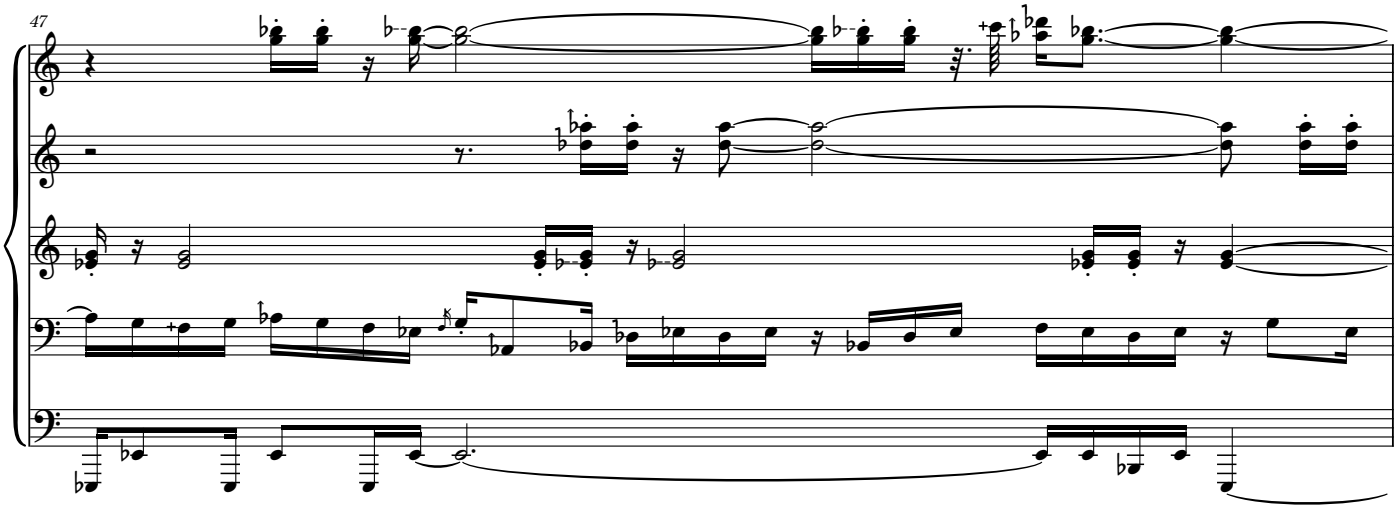

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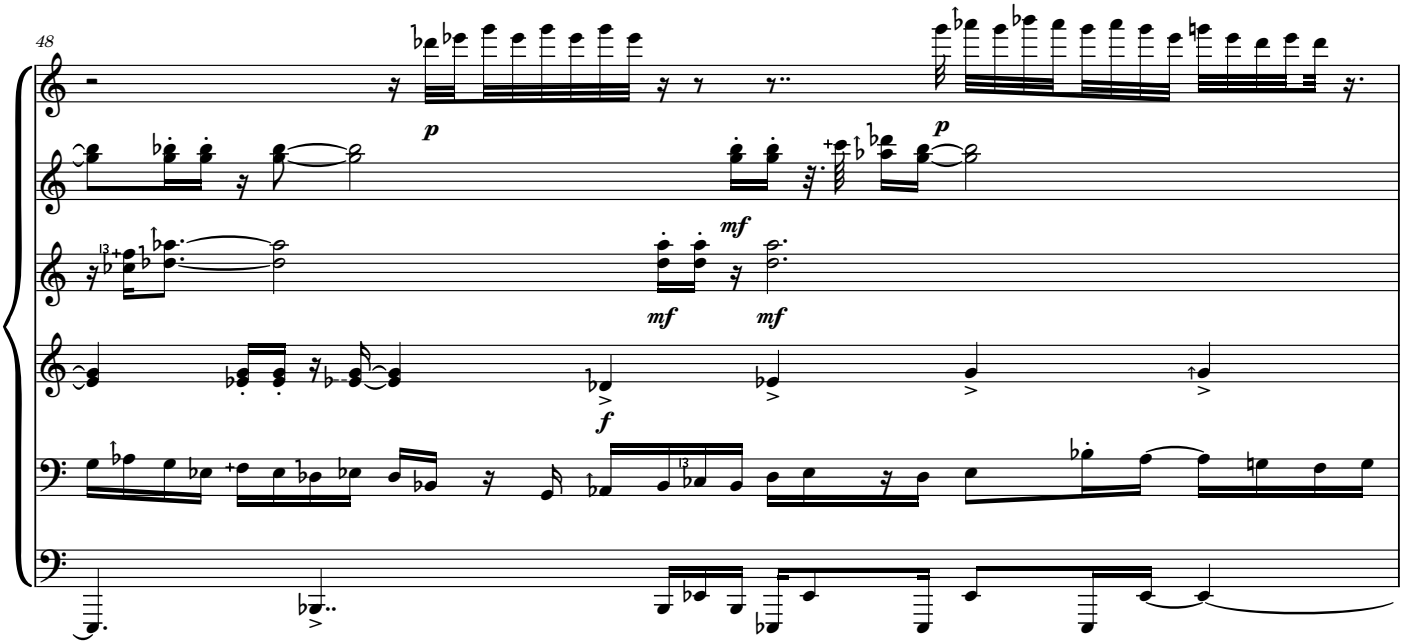

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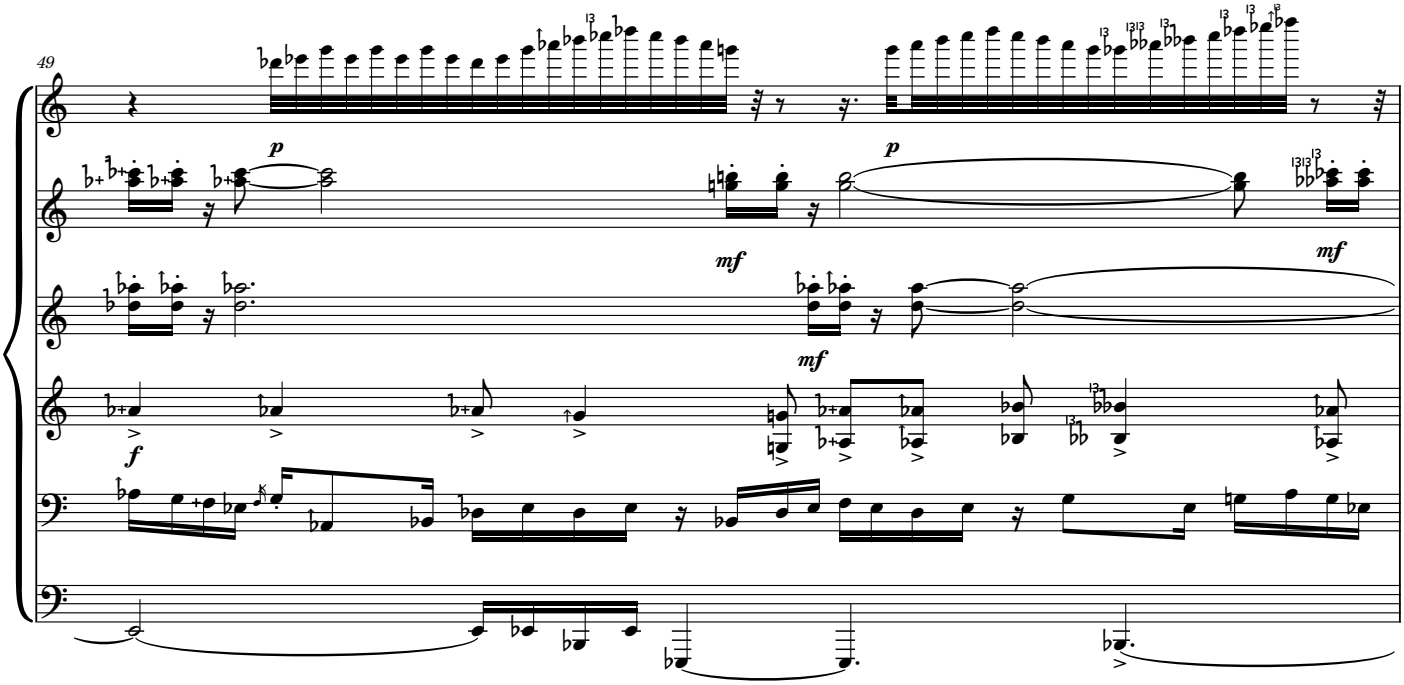

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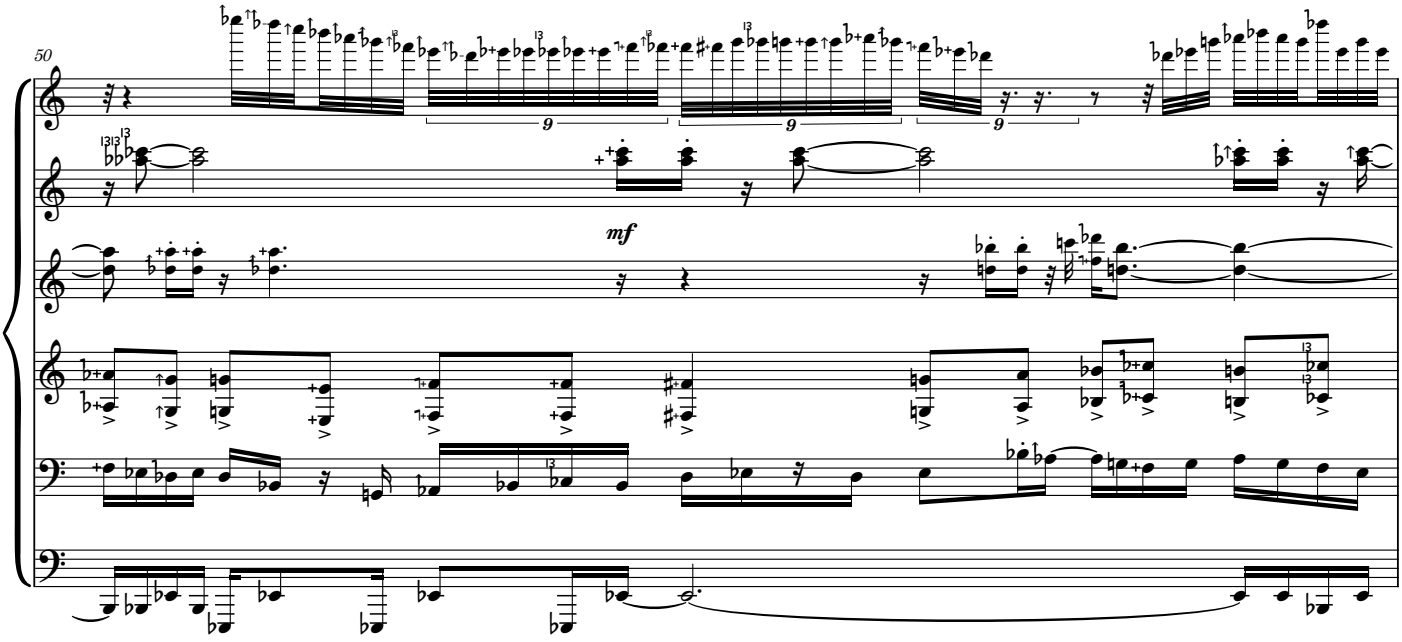

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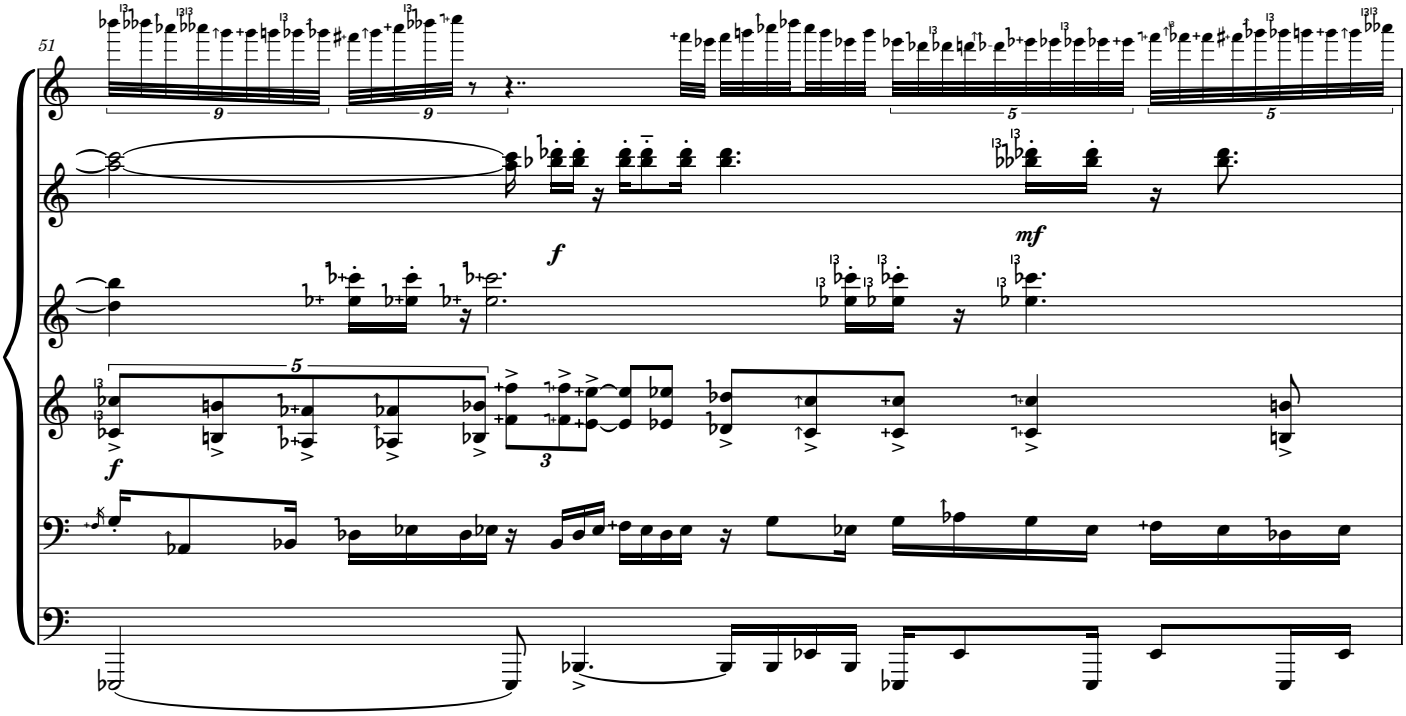

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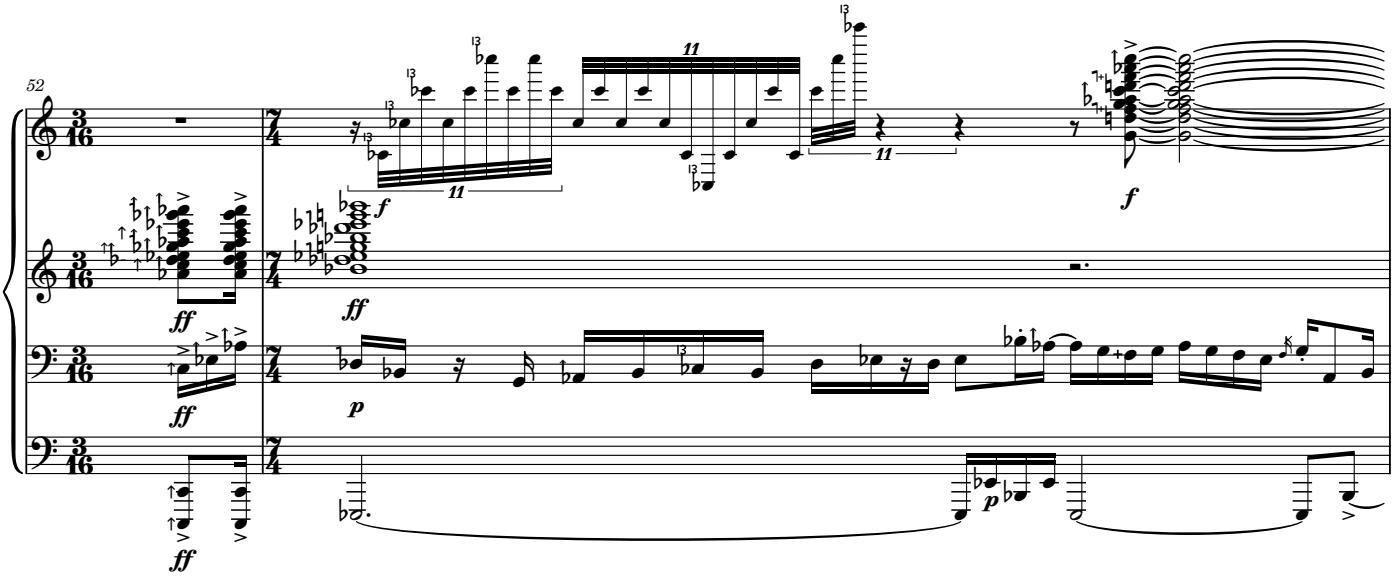

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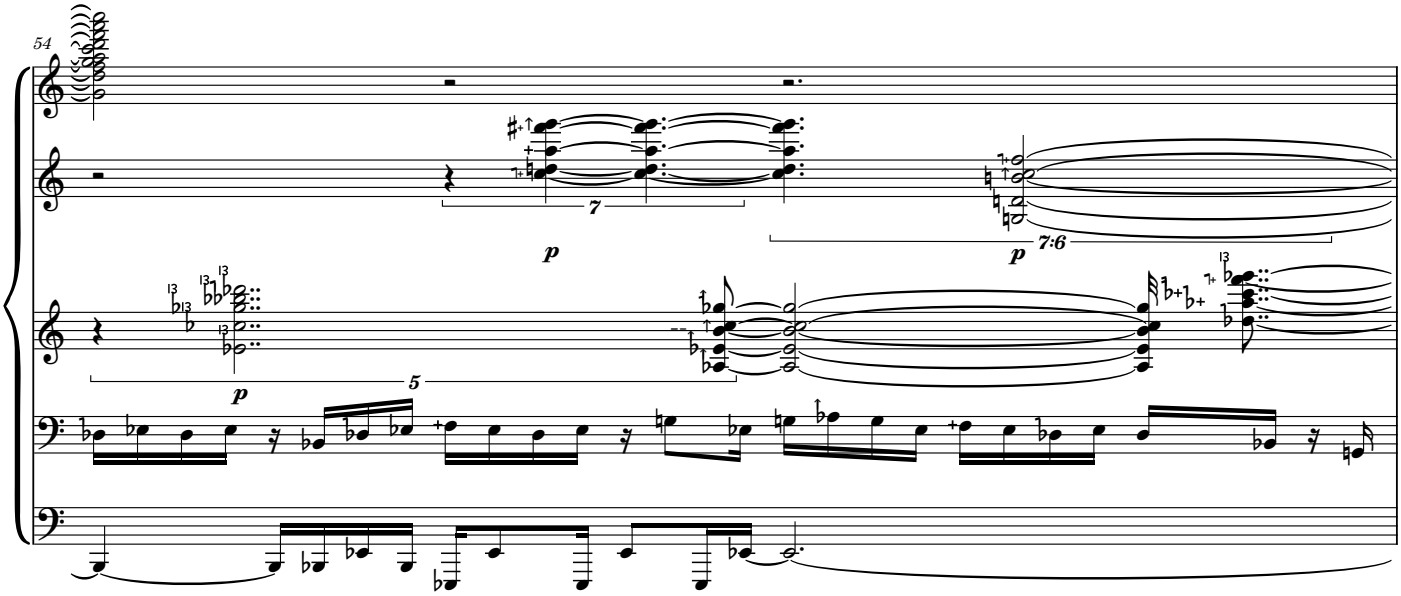

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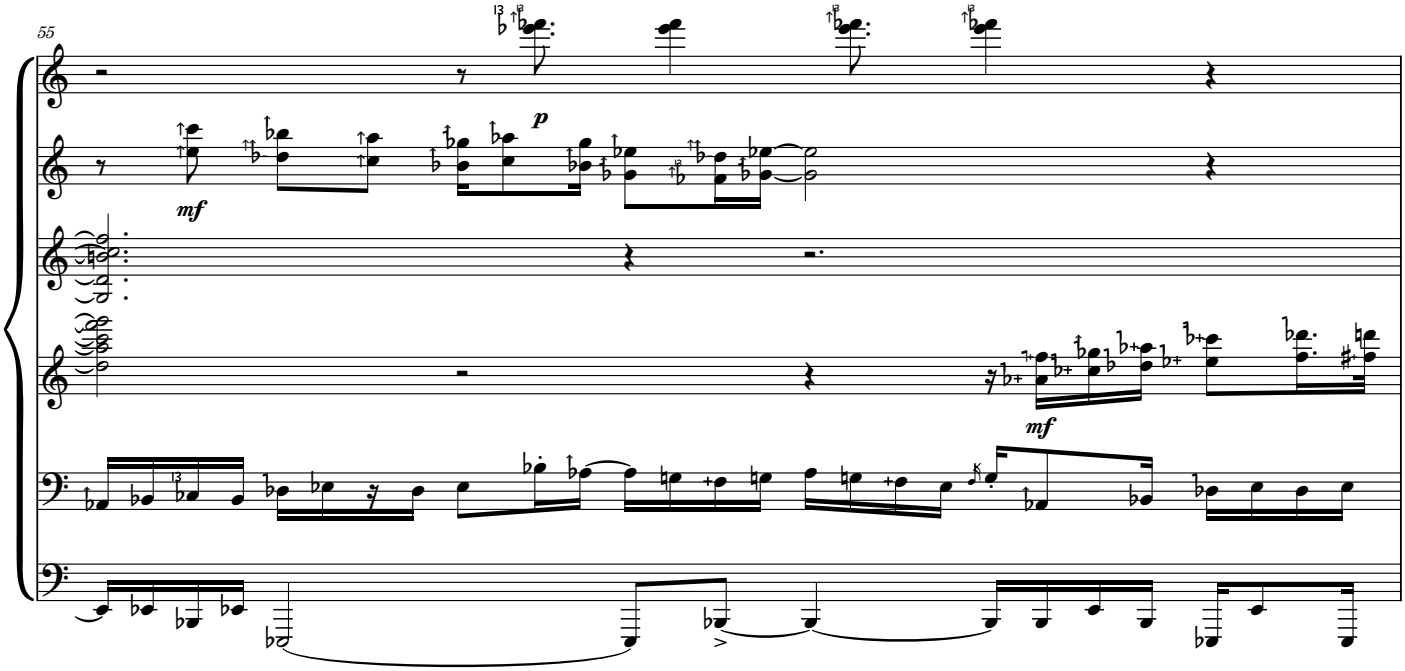

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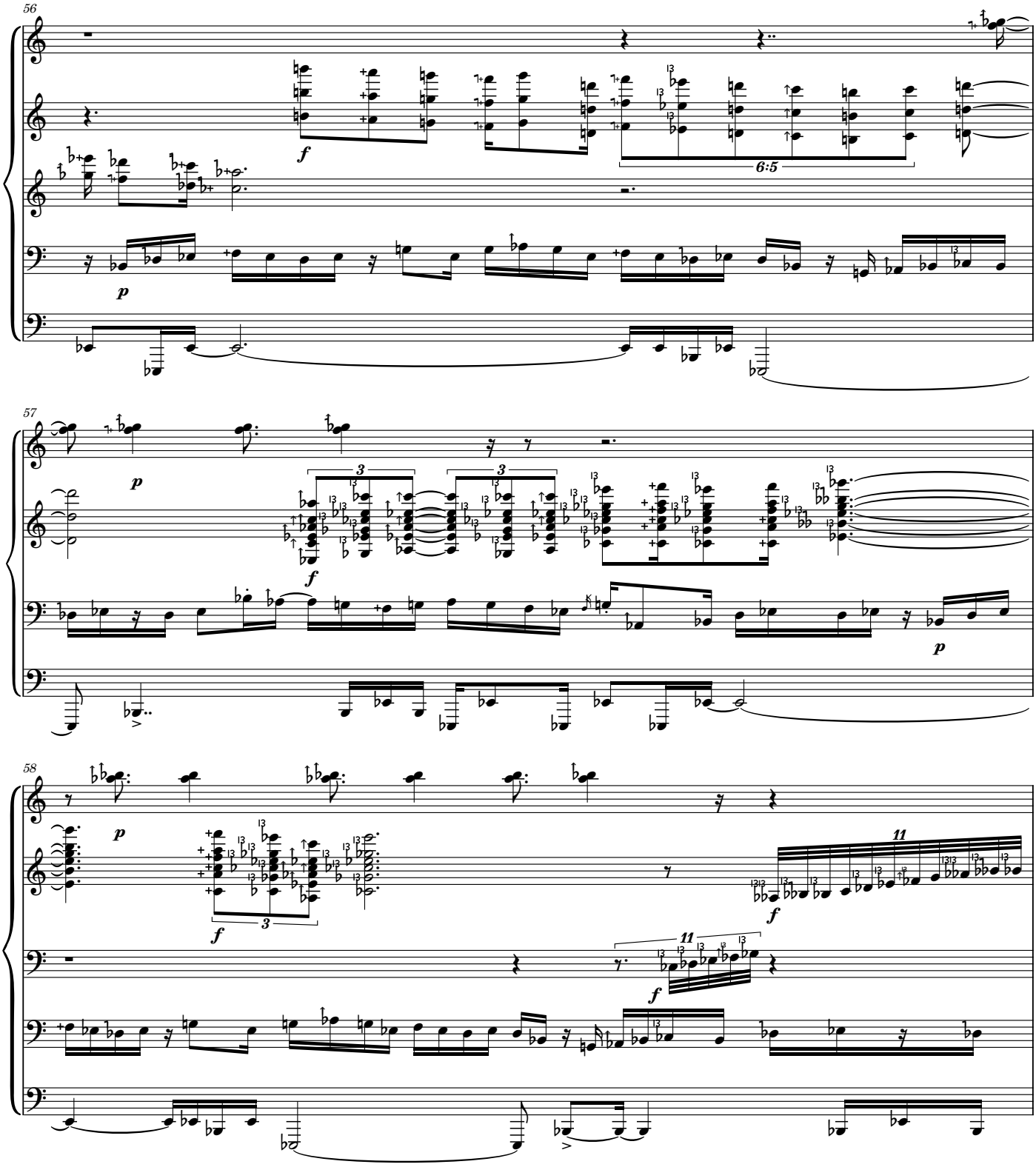

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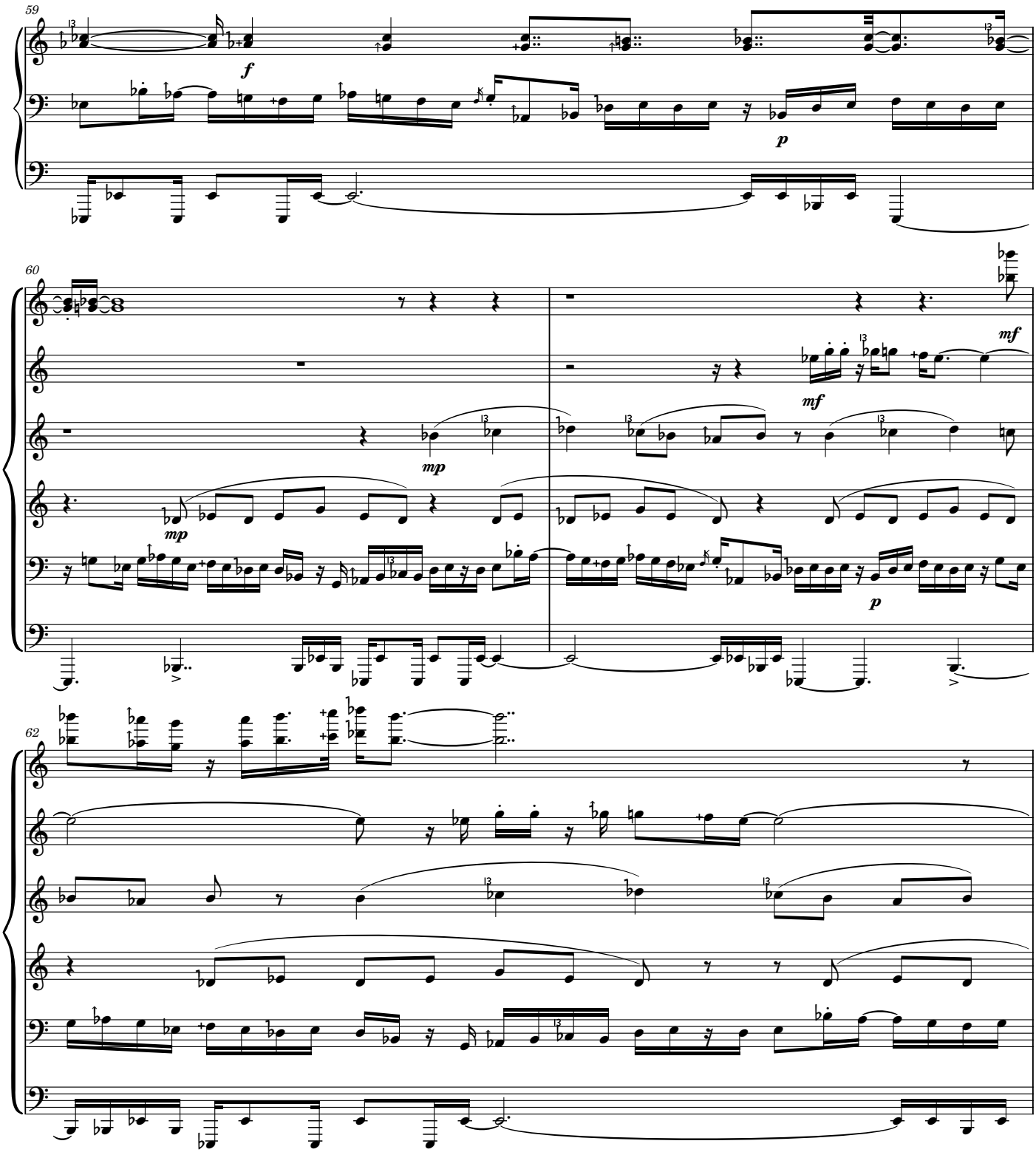

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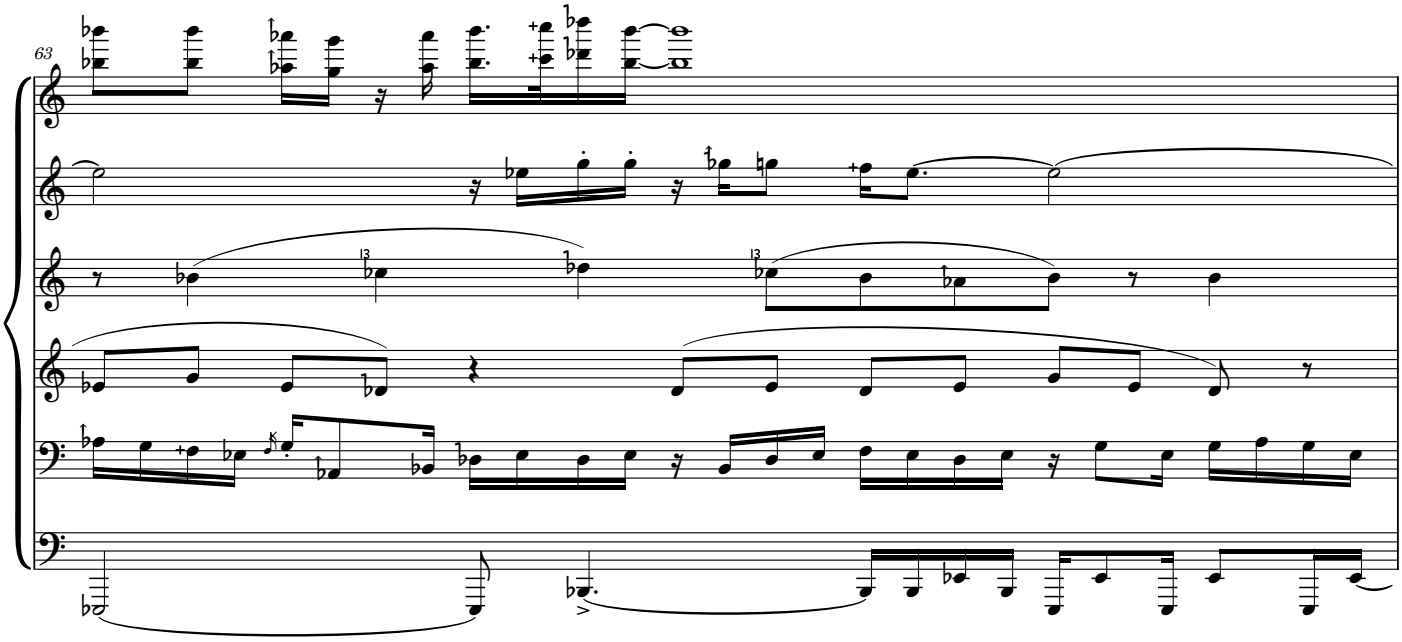

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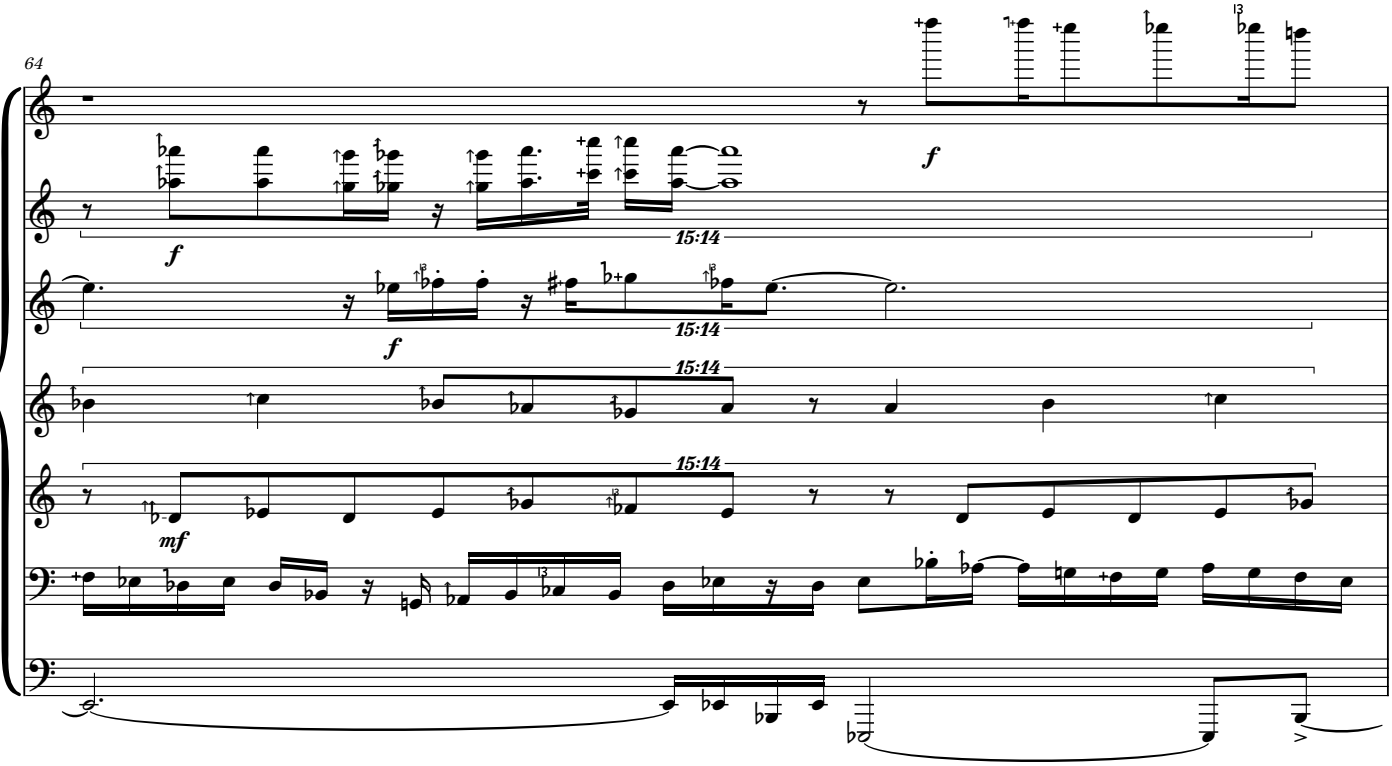

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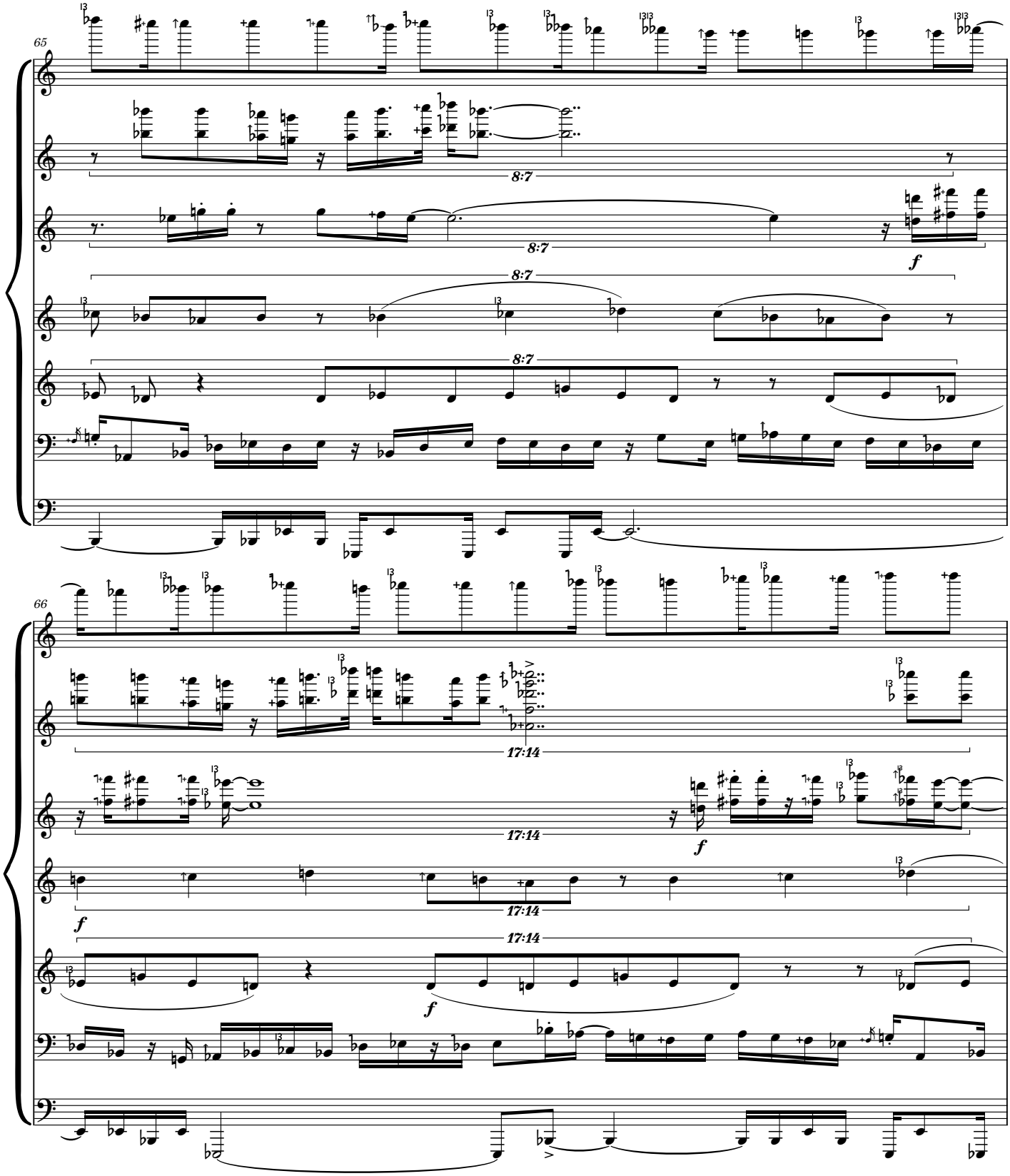

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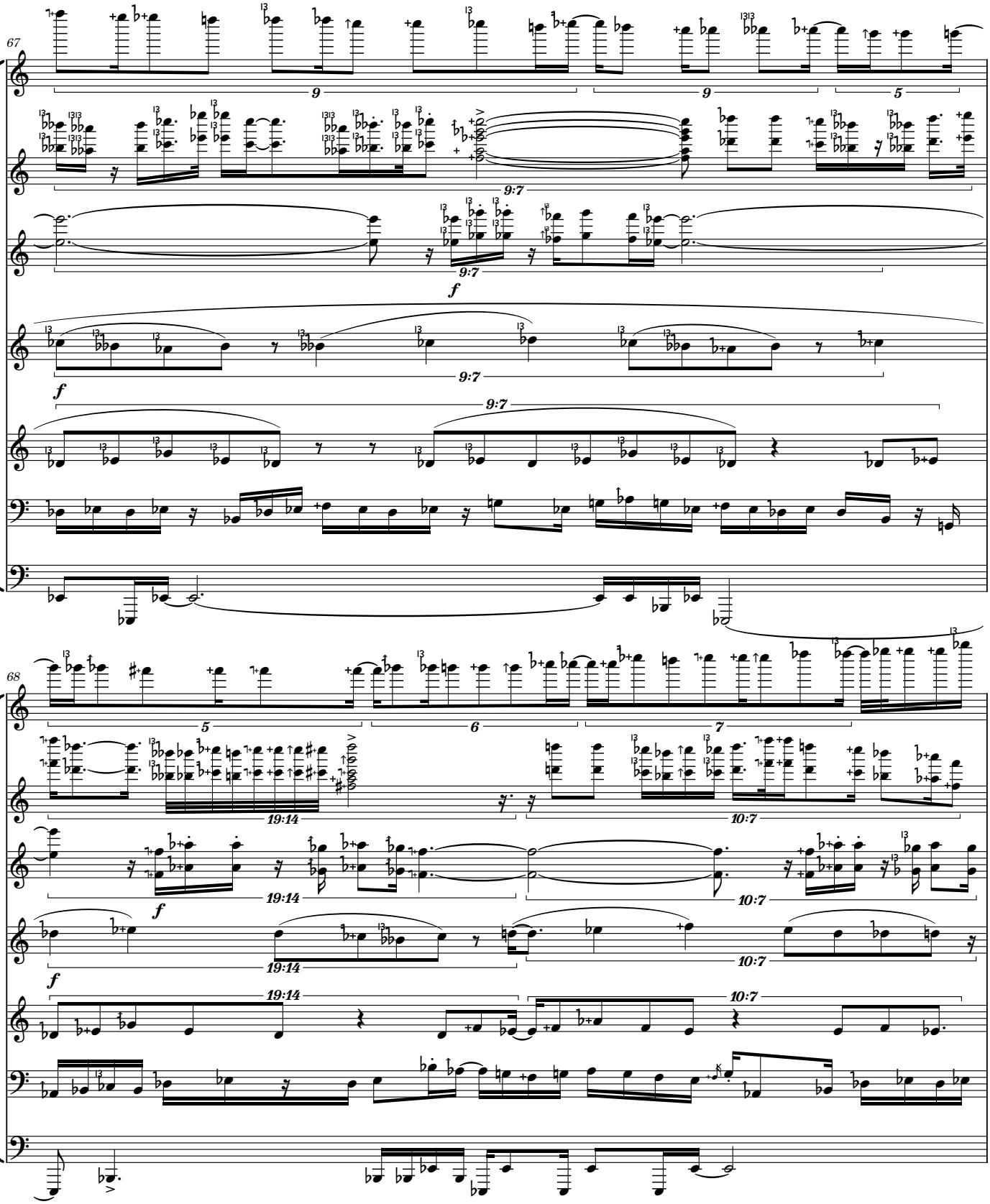

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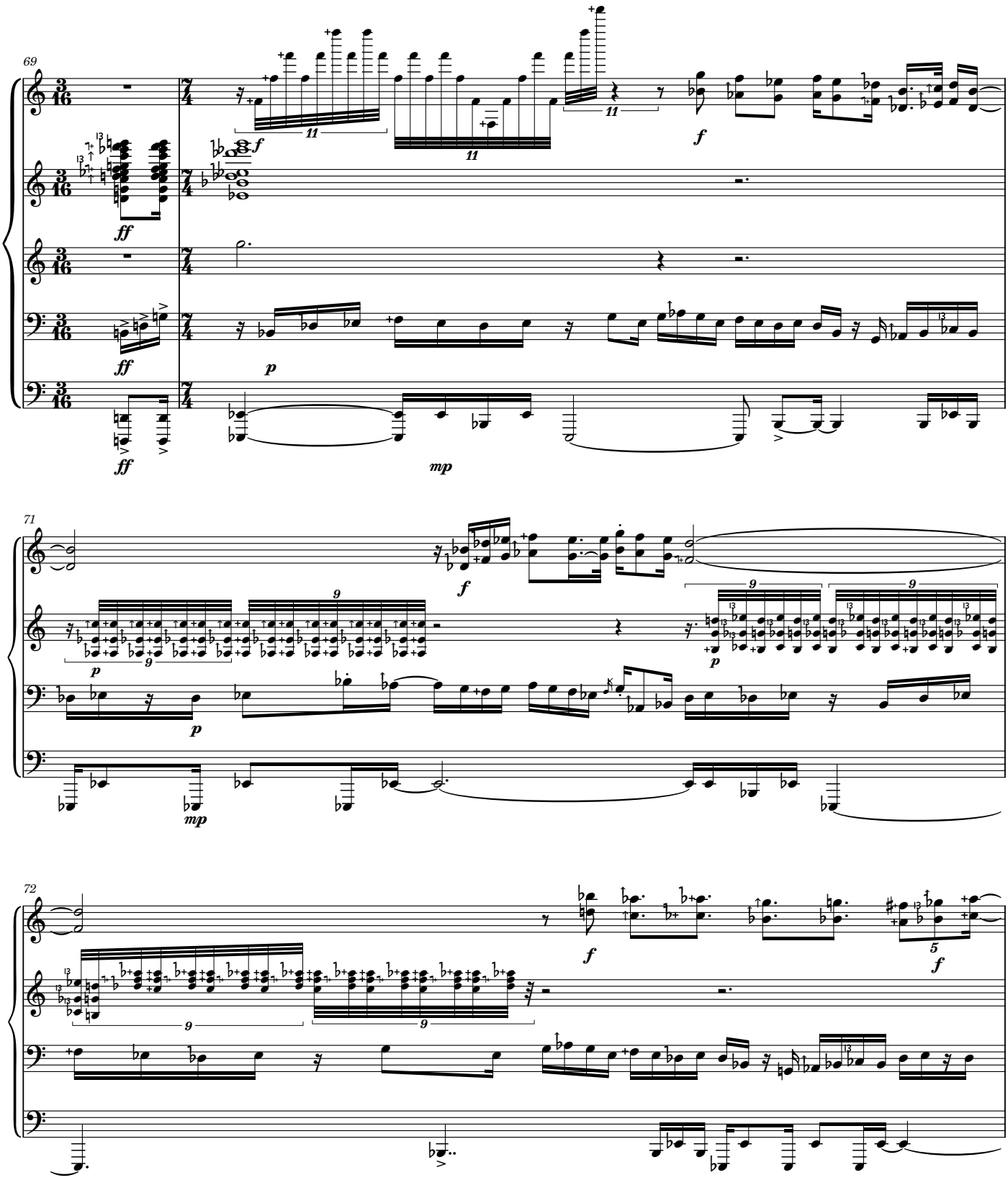

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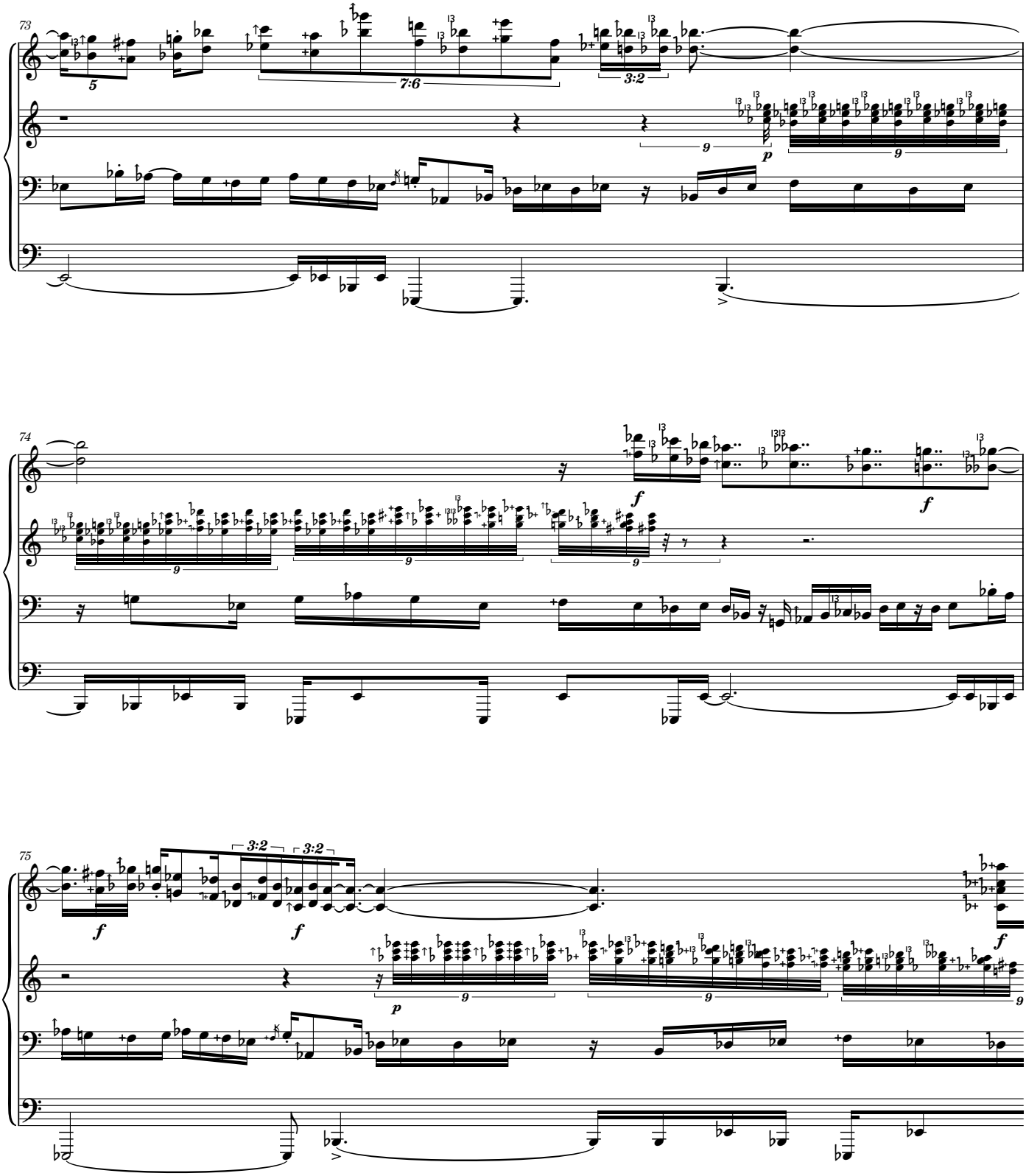

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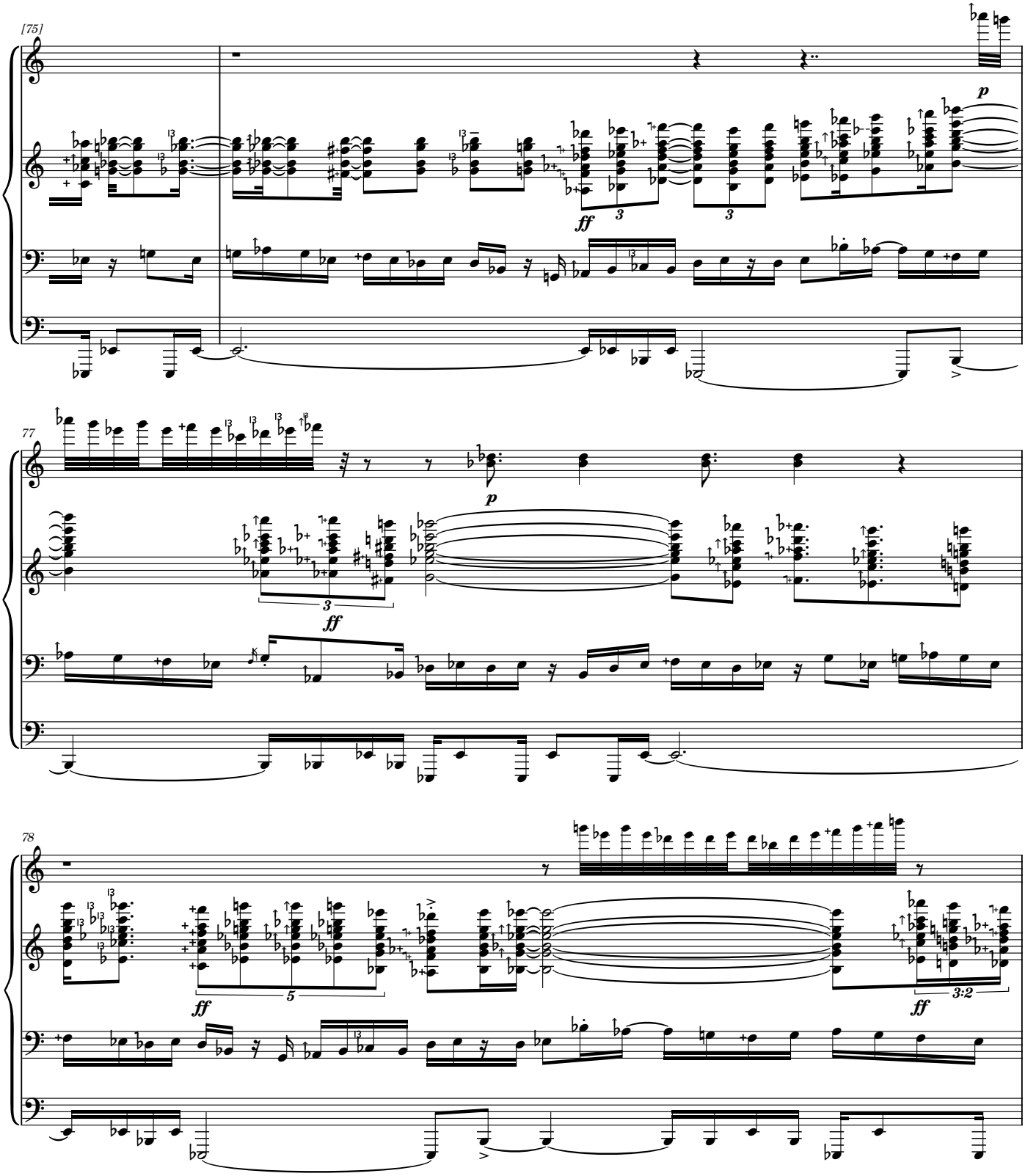

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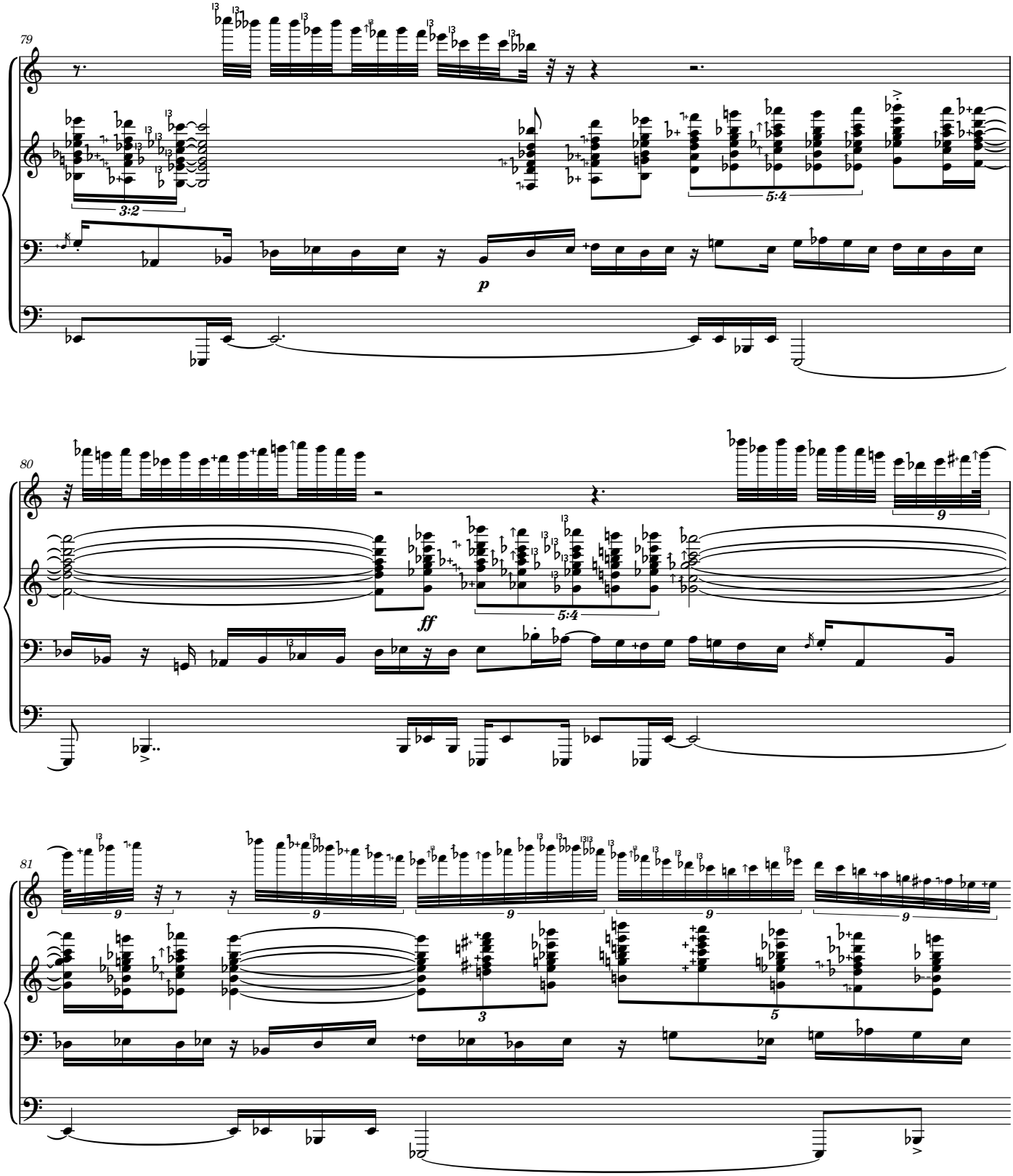

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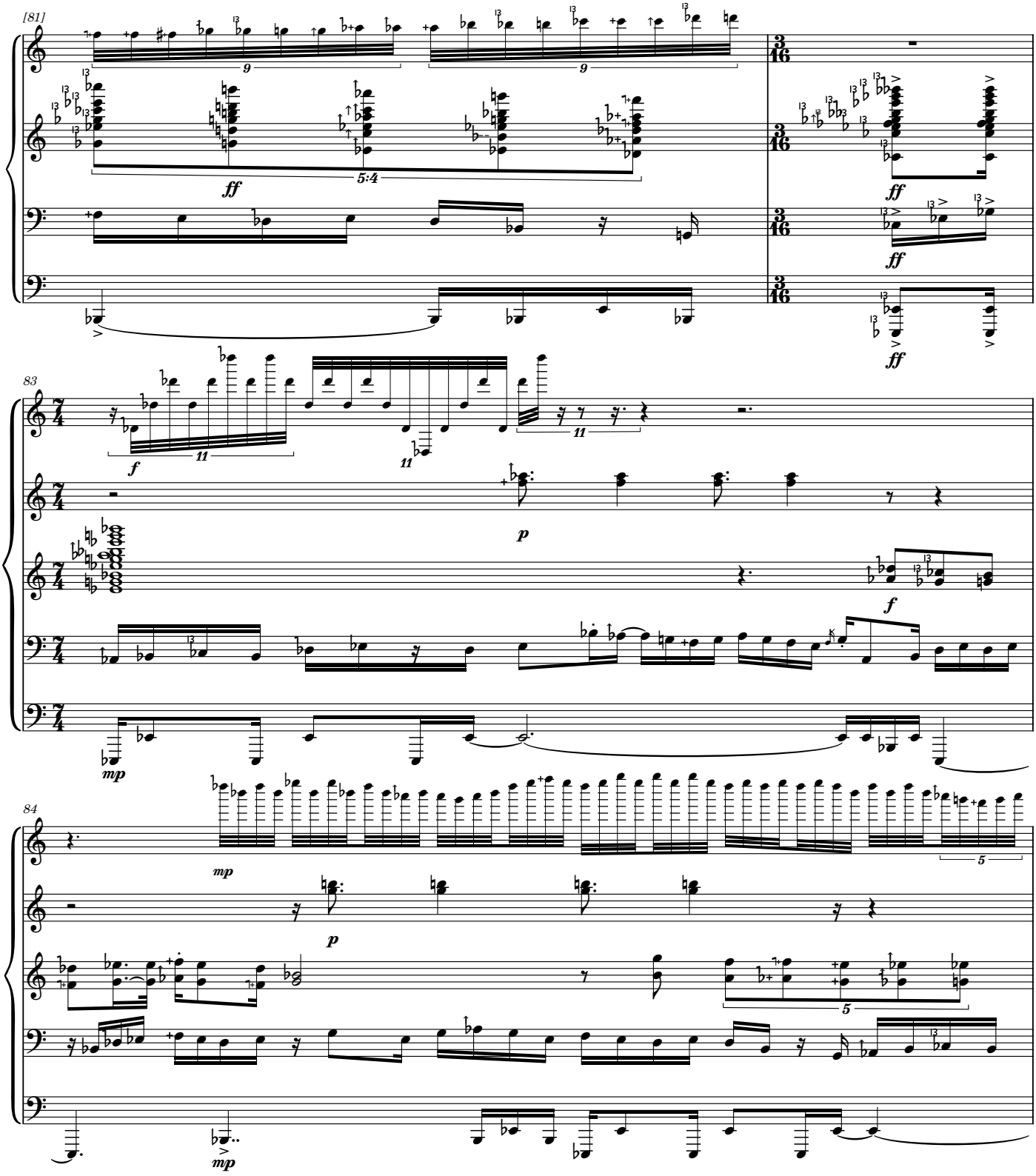

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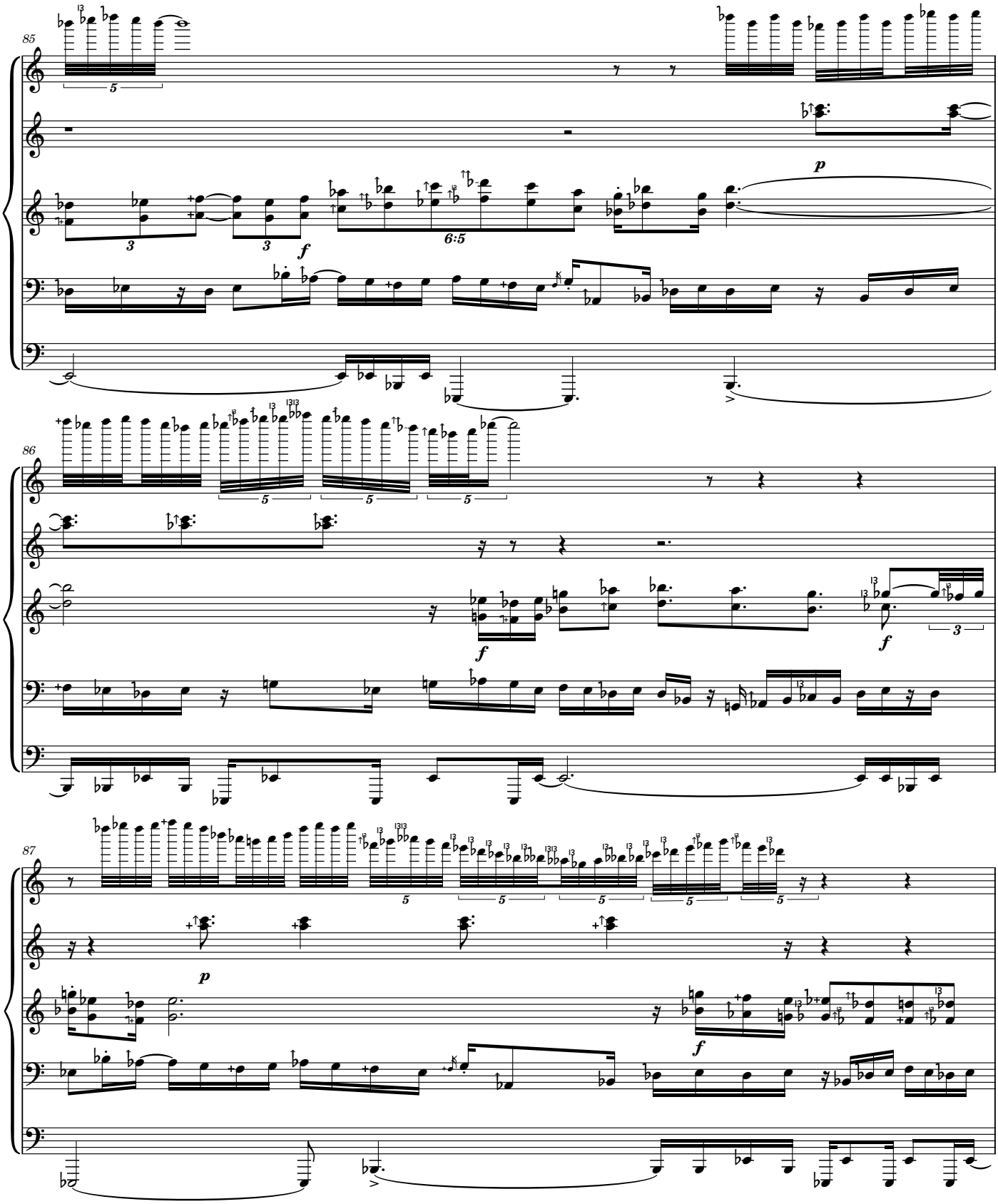

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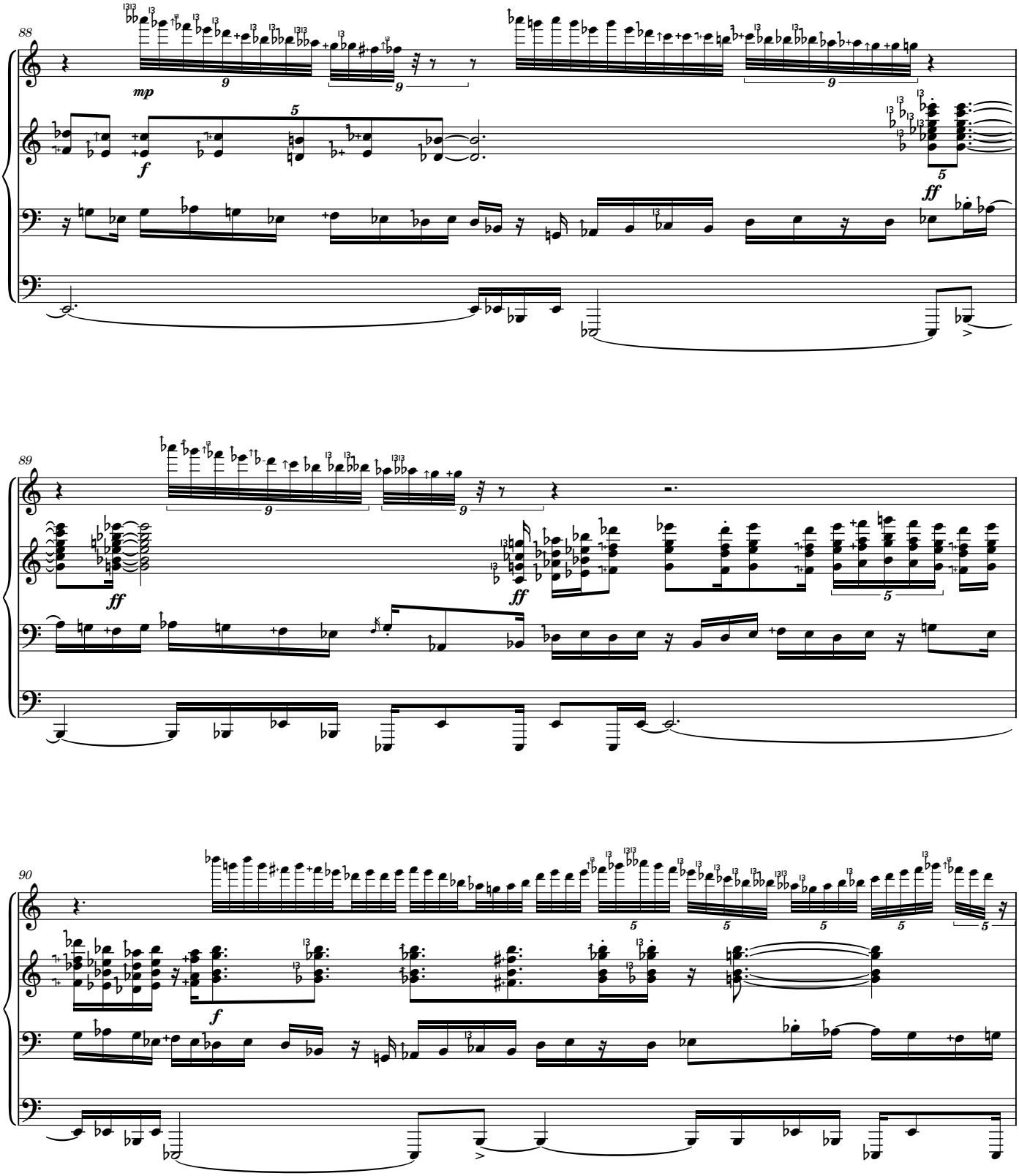

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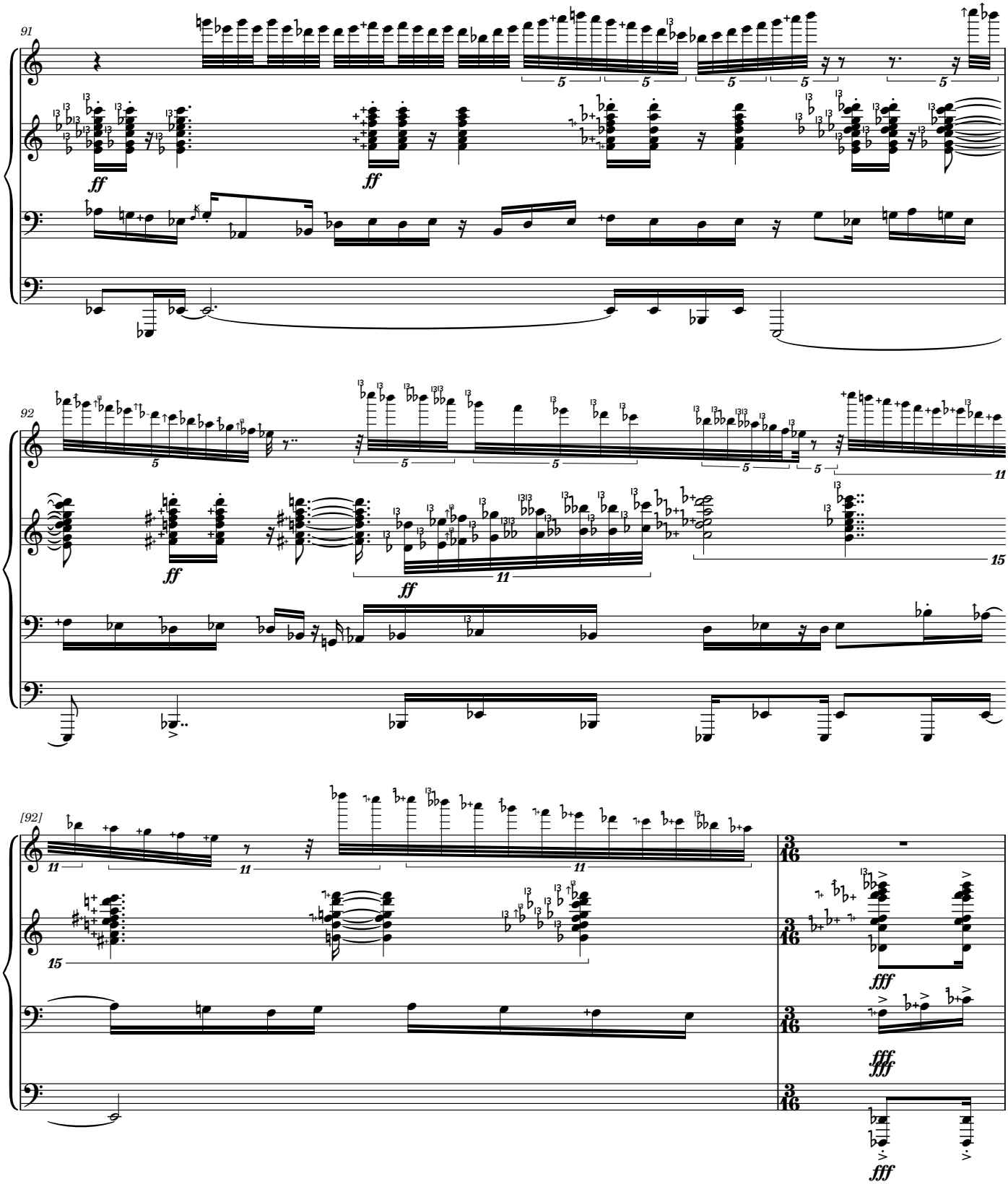

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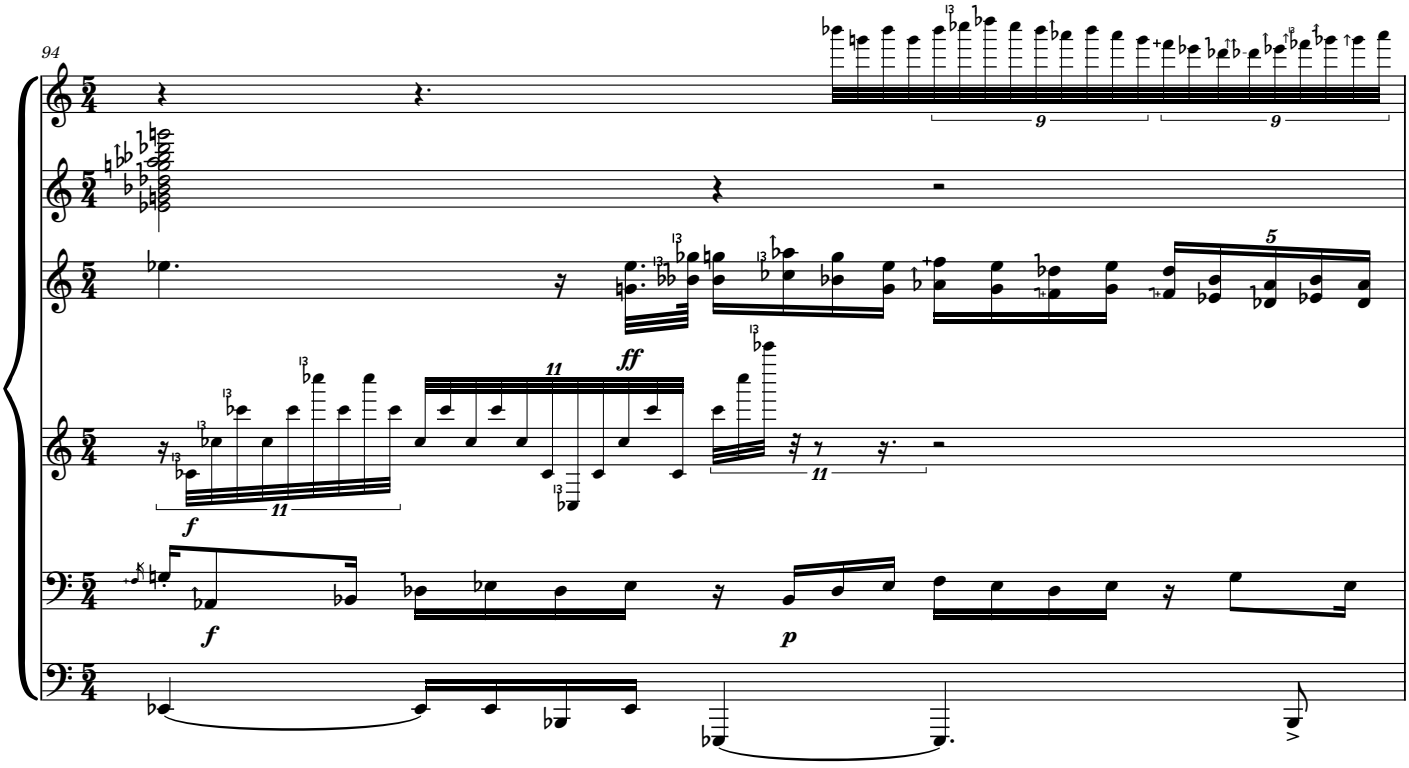

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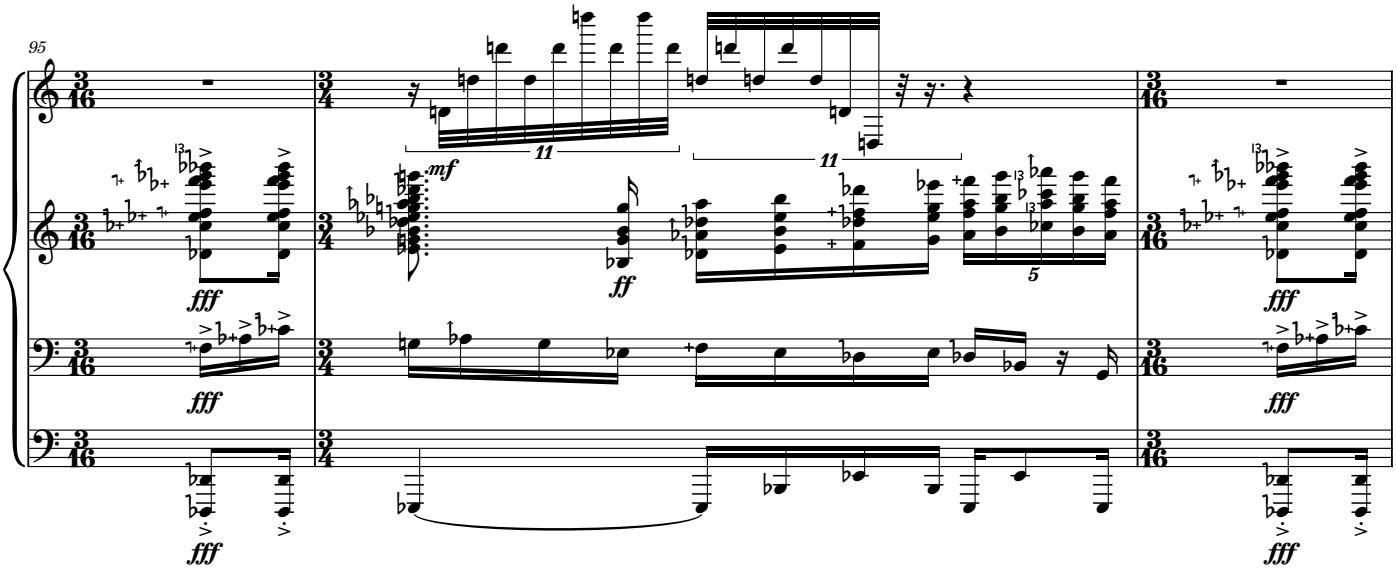

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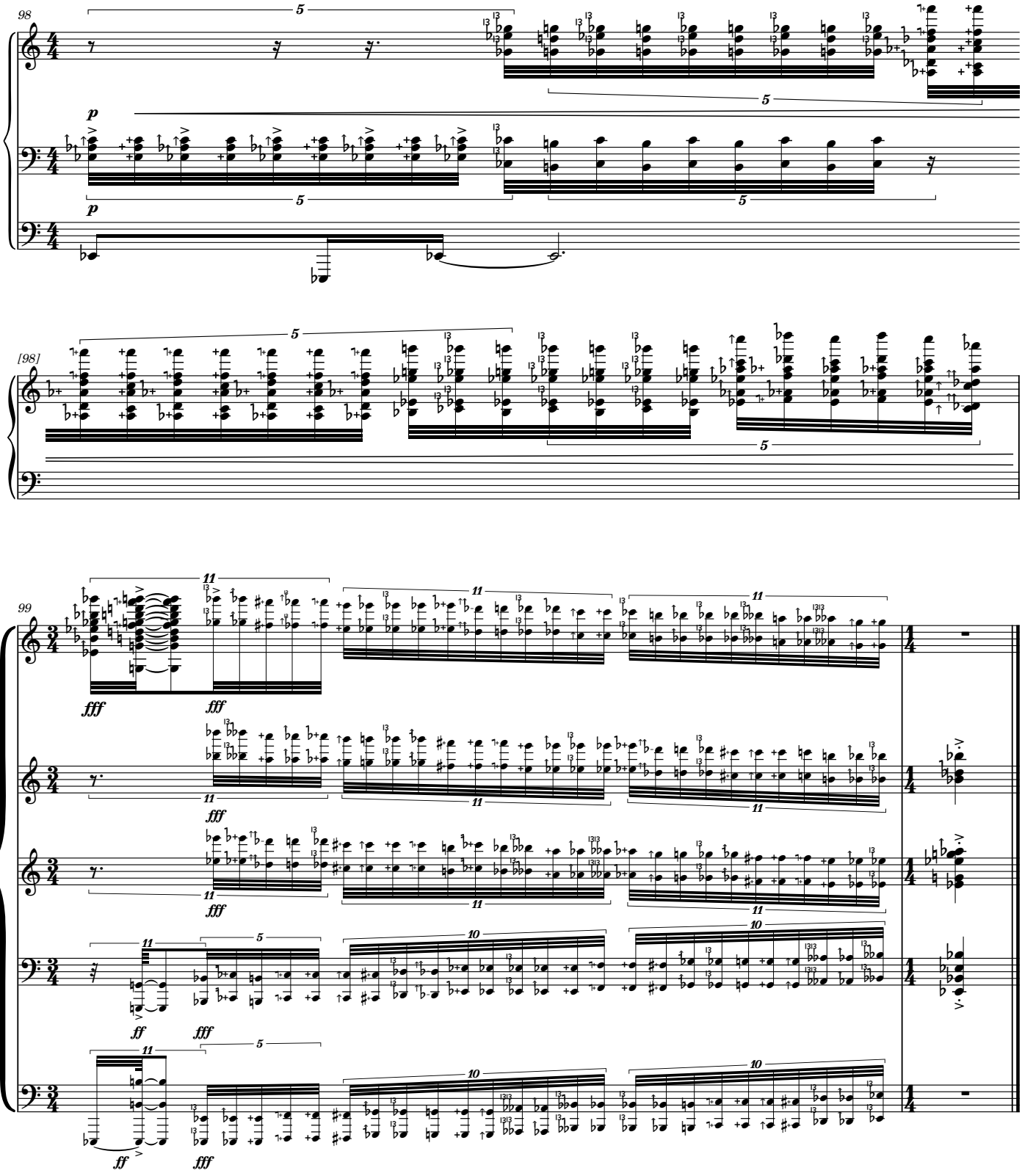

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