

The Lessing Is Miracle

for three retuned, computer-driven pianos

by Kyle Gann
2015-16

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 nearest E-flat 1/1 below:

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 the 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 1st, 3rd, 5th, 7th, 9th, 11th, 13th, and 15th 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
<u>Db7</u>	<u>7/4</u>	<u>969</u>	<u>7</u>			<u>1</u>				
C^	55/32	938			11			5		
C+	27/16	906		9			3			
C7+	105/64	857				15				7
Cb13	13/8	840	13					1		
<u>B</u>	<u>25/16</u>	<u>773</u>			<u>5</u>					
Bb^	99/64	755					11	9		
Cb77+	49/32	738				7				
Bb13	195/128	729						15	13	
Bb	3/2	702	3	1						
<u>Bbb713</u>	<u>91/64</u>	<u>609</u>			<u>13</u>			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.

to Julius Eastman in memoriam

The Lessing Is Miracle

Kyle Gann
2015-16

Piano 2 {

Piano 3 {

17

19

pp

13

17

=

3

Pno2 {

13

19

17

13

19

Pno3 {

17

11

pp

=

5

Pno1 {

13

Pno2 {

13

19

17 pp

13

Pno3 {

17

11

19

17

11

7

Pno1 {
 19 19
 pp 13 13
 Pno2 {
 17 17
 Pno3 {
 11 11
 7:6

≡

9

Pno1 {
 19
 -
 17 pp
 13 13
 Pno2 {
 -
 17
 -
 11
 pp
 Pno3 {
 -
 -
 -
 11
 11

The Lessing Is Miracle

3

11

Pno1 {

Pno2 {

Pno3 {

13

Pno1 {

Pno2 {

Pno3 {

15

Pno1 {

Pno2 {

Pno3 {

The Lessing Is Miracle

4

17

Pno2

19

17 11

5

p

Pno3

13

13

≡

This section of the musical score shows two staves for Pno2 and one staff for Pno3. The top staff for Pno2 starts with a rest followed by eighth-note pairs. The second measure begins with a dynamic 'p' and eighth-note pairs. The third measure has a dynamic '7'. The fourth measure has a dynamic '19'. The fifth measure has a dynamic '17 11'. The sixth measure has a dynamic '5'. The bottom staff for Pno3 consists of eighth-note pairs throughout. Measures 13 and 14 are bracketed together.

19

7

Pno2

19

17 11

5

Pno3

13

This section continues the musical score for Pno2 and Pno3. The top staff for Pno2 starts with a dynamic '19' followed by eighth-note pairs. The second measure has a dynamic '7'. The third measure has a dynamic '19'. The fourth measure has a dynamic '17 11'. The fifth measure has a dynamic '5'. The bottom staff for Pno3 consists of eighth-note pairs throughout. Measures 13 and 14 are bracketed together.

The Lessing Is Miracle

20

Pno1

p

pp

13
11

pp

5

p

19

13
11

5

19

Pno2

pp

17
11

5

17

18

Pno3

p

5

p

The Lessing Is Miracle

22

Pno1

19

13

11

5

19

13

11

5

Pno2

p

17

5

Pno3

5

17 *pp*

The Lessing Is Miracle

Musical score for Pno1 and Pno3, measures 17-24.

Pno1 (Piano 1) parts:

- Top staff: Treble clef, key signature of one sharp (F#), dynamic markings: α , α , β , β .
- Second staff: Treble clef, dynamic marking: γ .
- Third staff: Treble clef, dynamic markings: α , β , β .
- Fourth staff: Bass clef, dynamic markings: α , β , β .

Pno3 (Piano 3) part:

- Treble clef, dynamic marking: γ .

Measure numbers: 17, 19, 13, 11, 5, 7.

The Lessing Is Miracle

Musical score for two pianos (Pno1 and Pno3). The score consists of two systems of staves, each with three staves. Measure numbers 25, 19, 13, 11, 5, 17, and 7 are indicated above the staves.

Pno1 (Top System):

- Measures 25-19: Treble clef. Measures 25-17 show sixteenth-note patterns. Measure 19 starts with eighth-note patterns.
- Measure 13: Treble clef changes to bass clef. Measures 13-11 show eighth-note patterns.
- Measure 11: Bass clef changes to treble clef. Measures 11-5 show eighth-note patterns.
- Measure 5: Treble clef changes to bass clef. Measures 5-1 show eighth-note patterns.

Pno3 (Bottom System):

- Measures 25-19: Treble clef. Measures 25-17 show sixteenth-note patterns. Measure 19 starts with eighth-note patterns.
- Measure 13: Treble clef changes to bass clef. Measures 13-11 show eighth-note patterns.
- Measure 11: Bass clef changes to treble clef. Measures 11-5 show eighth-note patterns.
- Measure 5: Treble clef changes to bass clef. Measures 5-1 show eighth-note patterns.

Pno1

Pno2

Pno3

The Lessing Is Miracle

Pno1 {

Pno2 {

Pno3 {

The Lessing Is Miracle

Pno1

Pno2

Pno3

The Lessing Is Miracle

Musical score for piano and three voices (Pno1, Pno2, Pno3). The score consists of five staves. The top staff is Pno1, followed by Pno2, then a bracketed section for Pno1 (three staves) and Pno3 (one staff at the bottom). The score includes dynamic markings, rehearsal numbers (32, 17, 13, 11, 5, 19), and various musical symbols like grace notes and fermatas.

Pno1 { Pno2 { Pno1 { Pno3 {

32. 17 13 11 5 19

Musical score for piano parts Pno1 and Pno3. The score consists of two systems of music. The first system (measures 33-17) features Pno1 in treble and bass staves, and Pno3 in treble and bass staves. The second system (measures 17-5) continues with Pno1 and Pno3. Measure 19 begins with a treble clef and a key signature of one sharp. Measure 5 concludes the piece.

Pno1

Pno3

33

17

13

11

5

19

5

34

Pno1

Pno3

36 

Pno1 {

Pno2 { *pp*

Pno3 {

15

7

5

17

19

13

11

5



37

Pno2 {

Pno3 {

17

7

19

13

11

5



The Lessing Is Miracle

38

Pno2

17 19

13 11 pp

13 11

5

Pno3

19

7

13

11

5

5

The Lessing Is Miracle

This musical score page contains two systems of piano parts, Pno2 and Pno3, spanning measures 38 through 19. The top system, Pno2, begins with a treble clef and a bass clef. Measure 38 starts with a rest followed by a dynamic instruction. Measures 17 and 19 feature eighth-note patterns. Measure 17 includes dynamics '17' and 'pp'. Measures 13 and 11 follow, with measure 13 having dynamics '13' and 'pp'. Measures 5 and 19 conclude the section. The bottom system, Pno3, begins with a treble clef and a bass clef. Measures 19 and 7 are shown. Measures 13 and 11 follow, with measure 13 having dynamics '13' and 'pp'. Measures 5 and 5 conclude the section. The entire section ends with the text 'The Lessing Is Miracle'.

Musical score for Pno2 and Pno3, page 17.

Pno2 (Piano 2) parts:

- Top staff: Treble clef, key signature of one sharp (F#), measure 40. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Second staff: Treble clef, measure 7. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Third staff: Treble clef, measure 19. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Fourth staff: Treble clef, measure 17. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Fifth staff: Treble clef, measure 13. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Sixth staff: Treble clef, measure 11. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Bottom staff: Bass clef, measure 5. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).

Pno3 (Piano 3) part:

- Staff: Treble clef, measure 13 pp. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).
- Staff: Treble clef, measure 11. Notes: eighth note (F#), sixteenth note pair (E, G), eighth note (F#), sixteenth note pair (E, G).

42

Pno1

Pno2

Pno3

The Lessing Is Miracle

44

Pno1

Pno2

Pno3

The Lessing Is Miracle

Pno1

46

19

17

13

11

5

Pno2

5

7

5

Pno3

13

5

13

5

The Lessing Is Miracle

48

Pno1

Pno2

Pno3

pp

17 17

13 13

11 11

5 5

5 5

19 19

5 5

The Lessing Is Miracle

50

Pno1

Pno2

Pno3

17

11

5

19

52

Pno1

19

13

19

13

5

Pno2

17

pp

13

11

5

5

Musical score for piano part 2 (Pno2) at measure 54. The score consists of six staves. The top staff shows a treble clef, a key signature of one sharp, and a tempo marking of 7. The second staff shows a treble clef, a key signature of one sharp, and a tempo marking of 19. The third staff shows a treble clef, a key signature of one sharp, and a tempo marking of 17. The fourth staff shows a treble clef, a key signature of one sharp, and a tempo marking of 13 over 11. The fifth staff shows a bass clef, a key signature of one sharp, and a tempo marking of 5. The bottom staff shows a bass clef, a key signature of one sharp, and a tempo marking of 5. The score features various musical markings including grace notes, slurs, and dynamic changes.

56

Pno1

pp

13
11

13
11

5

Pno2

19

17

13

5

19

17

5

ff.

58

Pno1

Pno2

Pno3

The Lessing Is Miracle

Musical score for three pianos (Pno1, Pno2, Pno3) showing measures 60 through 65.

Pno1 (Top Staff):

- Measure 60: Rests.
- Measure 61: Treble clef changes to bass clef. Bassoon-like entries (marked with $\text{b} \bullet$) occur at the beginning of each measure.
- Measures 62-63: Continuation of bassoon entries.
- Measure 64: Bassoon entries continue.
- Measure 65: Bassoon entries continue.

Pno2 (Middle Staff):

- Measure 60: Rests.
- Measure 61: Continues from measure 60.
- Measures 62-63: Continuation of bassoon entries.
- Measure 64: Continuation of bassoon entries.
- Measure 65: Continuation of bassoon entries.

Pno3 (Bottom Staff):

- Measure 60: Rests.
- Measure 61: Continues from measure 60.
- Measures 62-63: Continuation of bassoon entries.
- Measure 64: Continuation of bassoon entries.
- Measure 65: Continuation of bassoon entries.

The Lessing Is Miracle

Pno1

Pno2

Pno3

The Lessing Is Miracle

Pno1

Pno2

Pno3

The Lessing Is Miracle

Pno1 {

Pno2 {

Pno3 {

The Lessing Is Miracle

Pno1

Pno2

Pno3

67

17

11

5

7

19

5

13

5

32 68

Pno1 {

Pno2 {

Pno3 {

69

Pno2 {

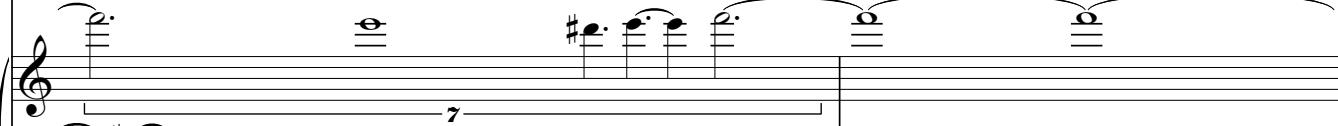
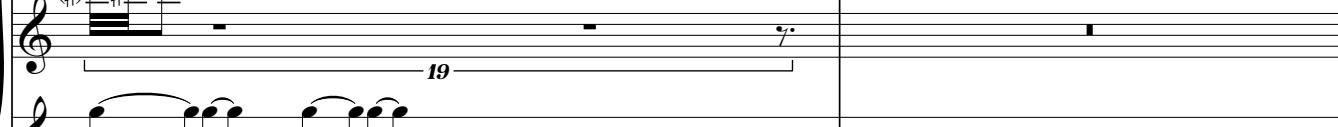
Pno3 {

The Lessing Is Miracle

Musical score for Pno2 and Pno3. The score consists of five staves. Pno2 (piano 2) has two staves: treble and bass. Pno3 (piano 3) has one staff. Measure 70 starts with a treble clef, a common time signature, and a key signature of one sharp. The first measure of Pno2 consists of eighth-note pairs. Measures 71-72 show sixteenth-note patterns. Measures 73-74 continue with sixteenth-note patterns. Measures 75-76 show eighth-note pairs. Measures 77-78 show sixteenth-note patterns. Measures 79-80 show eighth-note pairs. Measures 81-82 show sixteenth-note patterns. Measures 83-84 show eighth-note pairs. Measures 85-86 show sixteenth-note patterns. Measures 87-88 show eighth-note pairs. Measures 89-90 show sixteenth-note patterns. Measures 91-92 show eighth-note pairs. Measures 93-94 show sixteenth-note patterns. Measures 95-96 show eighth-note pairs. Measures 97-98 show sixteenth-note patterns. Measures 99-100 show eighth-note pairs. Measures 101-102 show sixteenth-note patterns. Measures 103-104 show eighth-note pairs. Measures 105-106 show sixteenth-note patterns. Measures 107-108 show eighth-note pairs. Measures 109-110 show sixteenth-note patterns. Measures 111-112 show eighth-note pairs. Measures 113-114 show sixteenth-note patterns. Measures 115-116 show eighth-note pairs. Measures 117-118 show sixteenth-note patterns. Measures 119-120 show eighth-note pairs. Measures 121-122 show sixteenth-note patterns. Measures 123-124 show eighth-note pairs. Measures 125-126 show sixteenth-note patterns. Measures 127-128 show eighth-note pairs. Measures 129-130 show sixteenth-note patterns. Measures 131-132 show eighth-note pairs. Measures 133-134 show sixteenth-note patterns. Measures 135-136 show eighth-note pairs. Measures 137-138 show sixteenth-note patterns. Measures 139-140 show eighth-note pairs. Measures 141-142 show sixteenth-note patterns. Measures 143-144 show eighth-note pairs. Measures 145-146 show sixteenth-note patterns. Measures 147-148 show eighth-note pairs. Measures 149-150 show sixteenth-note patterns. Measures 151-152 show eighth-note pairs. Measures 153-154 show sixteenth-note patterns. Measures 155-156 show eighth-note pairs. Measures 157-158 show sixteenth-note patterns. Measures 159-160 show eighth-note pairs. Measures 161-162 show sixteenth-note patterns. Measures 163-164 show eighth-note pairs. Measures 165-166 show sixteenth-note patterns. Measures 167-168 show eighth-note pairs. Measures 169-170 show sixteenth-note patterns. Measures 171-172 show eighth-note pairs. Measures 173-174 show sixteenth-note patterns. Measures 175-176 show eighth-note pairs. Measures 177-178 show sixteenth-note patterns. Measures 179-180 show eighth-note pairs. Measures 181-182 show sixteenth-note patterns. Measures 183-184 show eighth-note pairs. Measures 185-186 show sixteenth-note patterns. Measures 187-188 show eighth-note pairs. Measures 189-190 show sixteenth-note patterns. Measures 191-192 show eighth-note pairs. Measures 193-194 show sixteenth-note patterns. Measures 195-196 show eighth-note pairs. Measures 197-198 show sixteenth-note patterns. Measures 199-200 show eighth-note pairs. Measures 201-202 show sixteenth-note patterns. Measures 203-204 show eighth-note pairs. Measures 205-206 show sixteenth-note patterns. Measures 207-208 show eighth-note pairs. Measures 209-210 show sixteenth-note patterns. Measures 211-212 show eighth-note pairs. Measures 213-214 show sixteenth-note patterns. Measures 215-216 show eighth-note pairs. Measures 217-218 show sixteenth-note patterns. Measures 219-220 show eighth-note pairs. Measures 221-222 show sixteenth-note patterns. Measures 223-224 show eighth-note pairs. Measures 225-226 show sixteenth-note patterns. Measures 227-228 show eighth-note pairs. Measures 229-230 show sixteenth-note patterns. Measures 231-232 show eighth-note pairs. Measures 233-234 show sixteenth-note patterns.

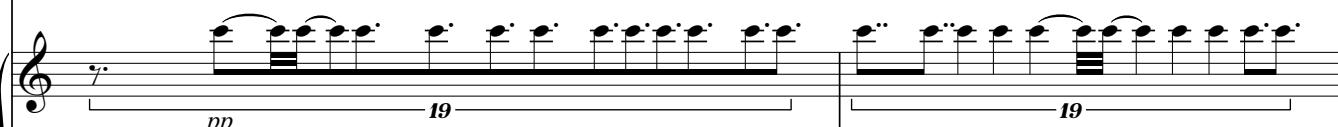
The Lessing Is Miracle

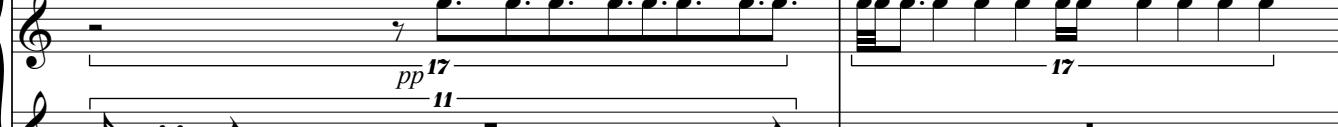
71

Pno1 { 
 pp 
 Pno2 { 
 19
 17

 
 13
 5

 
 13

 Pno3 { 
 pp 19

 
 pp 17
 11

Musical score for three pianos (Pno1, Pno2, Pno3) showing measures 73 through 21.

The score consists of three staves, each representing a piano part:

- Pno1:** The top staff. It starts with a measure containing a eighth note followed by three sixteenth notes, a rest, another rest, and a final eighth note. Measure numbers 11 and 21 are indicated above the staff.
- Pno2:** The middle staff. It starts with a measure containing a eighth note followed by three sixteenth notes, a rest, another rest, and a final eighth note. Measure numbers 13 and 19 are indicated below the staff. The staff ends with a bass clef and a dotted half note.
- Pno3:** The bottom staff. It starts with a measure containing a eighth note followed by three sixteenth notes, a rest, another rest, and a final eighth note. Measure numbers 15 and 11 are indicated below the staff. The staff ends with a bass clef and a dotted half note.

Measure 21 concludes with a dynamic marking *p*.

The Lessing Is Miracle

74

Pno1

Pno2

Pno3

The score consists of three staves, each representing a piano (Pno1, Pno2, Pno3). The music spans from measure 74 to measure 21. Measure 74 starts with a rest in the top staff. Measures 15-19 are grouped by a bracket under Pno1. Measures 13-17 are grouped by a bracket under Pno2. Measures 11-15 are grouped by a bracket under Pno3. Measures 17-21 are grouped by a bracket under Pno3. The score includes various musical elements such as quarter notes, eighth notes, sixteenth notes, grace notes, and slurs. Dynamic markings include forte (f), piano (p), and sforzando (sf).

The Lessing Is Miracle

Musical score for three pianos (Pno1, Pno2, Pno3) showing measures 75 through 21, 19, 15, 13, 11, and 17.

The score consists of three systems of piano staves. Pno1 (top system) starts at measure 75 with a bass note, followed by a series of eighth-note patterns. Pno2 (middle system) starts at measure 13 with sustained notes. Pno3 (bottom system) starts at measure 11 with eighth-note patterns. Measure numbers 21, 19, 15, 13, 11, and 17 are indicated above the staves, with measure 21 appearing twice. Measure 19 is preceded by a bracket spanning measures 15-21. Measures 15-17 are grouped by a bracket. Measures 11-13 are grouped by a bracket. Measures 75-10 are grouped by a bracket.

Pno1

Pno2

Pno3

77

Pno1

Pno2

Pno3

39

40

Pno1

79 (b) 2.

21

11

15

Pno2

21

17

15

Pno3

21

19

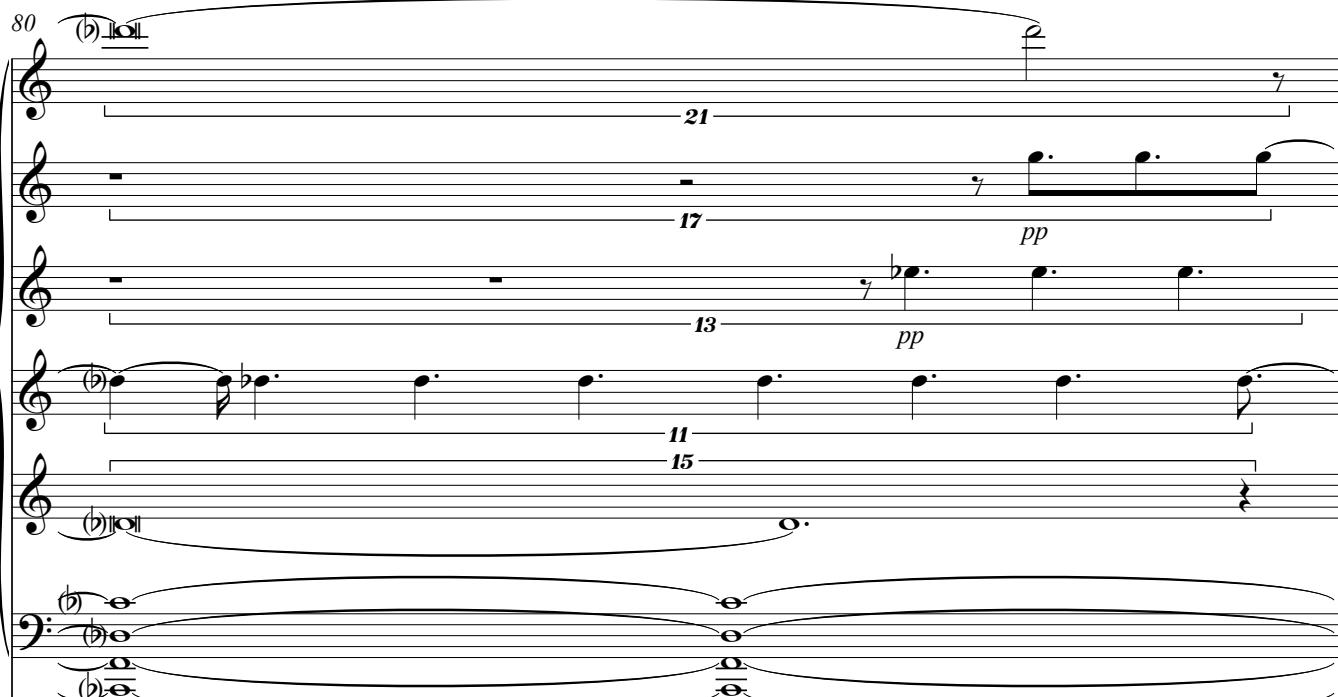
13

15

(b) 2.

This musical score consists of three staves, each representing a piano part (Pno1, Pno2, and Pno3). The score is divided into three sections by vertical bar lines. The first section starts at measure 79 with dynamic (b) 2. The second section begins at measure 21 with dynamic 11, followed by 15. The third section begins at measure 21 with dynamic 17, followed by 15. The fourth section begins at measure 21 with dynamic 19, followed by 13, and ends at measure 15 with dynamic 15. Articulations include slurs, grace notes, and dynamic markings like (b) 2. Measure numbers are placed above the staff or below the staff, and measure lines connect the measures across the staves.

The Lessing Is Miracle

80 (b) 

Pno1 21
17 pp
13 pp
11 15

Pno2 19 pp
17

Pno3 21
19
13
15

The Lessing Is Miracle

Pno1

Pno2

Pno3

81

17

13

11

15

19

21

15

The Lessing Is Miracle

Pno1

Pno2

Pno3

The Lessing Is Miracle

Musical score for three pianos (Pno1, Pno2, Pno3) in 44 measures. The score consists of three systems of staves, each with a treble clef and a bass clef. Measure 83 starts with a dynamic *f*. Measure 21 follows. Measures 17, 13, and 15 are grouped by brackets. Measures 19, 11, and 13 are also grouped by brackets. Measures 21, 13, 11, and 15 are further grouped by brackets. Measures 11, 13, and 15 are grouped by brackets. Measures 21, 13, and 15 are grouped by brackets. Measures 11, 13, and 15 are grouped by brackets. Measures 11, 13, and 15 are grouped by brackets.

84

Pno1

Pno2

Pno3

21

17

15

19

13

11

15

85

Pno1

Pno2

Pno3

21

17

13

pp

15

19

17

pp

13

21

13

11

Musical score for three pianos (Pno1, Pno2, Pno3) showing measures 86 through 21.

The score consists of three systems of piano staves. The top system is for Pno1, the middle for Pno2, and the bottom for Pno3. Measures 86 through 21 are shown, with measure numbers 13, 15, 17, and 19 indicated by brackets below the staves.

Pno1 (Top System):

- Measures 86-13: Treble clef. Measures 13-21: Bass clef.
- Measure 13: 13
- Measure 15: 15
- Measure 17: 17
- Measure 19: 19

Pno2 (Middle System):

- Measures 86-13: Treble clef. Measures 13-21: Bass clef.
- Measure 13: 13
- Measure 15: 15
- Measure 17: 17
- Measure 19: 19

Pno3 (Bottom System):

- Measures 86-13: Treble clef. Measures 13-21: Bass clef.
- Measure 15: 15

The Lessing Is Miracle

87

Pno1

13

11

8

8

21

19

Pno2

17

15

17

15

21

15

Pno3

The Lessing Is Miracle

88

Pno1

Pno2

Pno3

21

19

13

11

15

21

19

17

15

21

17

15

15

89

Pno1

This musical score section for Pno1 spans measures 89 to 21. It features five staves. The top staff begins with a rest, followed by a dynamic instruction '7'. The second staff starts with a rest, followed by a dynamic '7'. The third staff begins with a rest, followed by a dynamic 'pp' and the measure number '21'. The fourth staff starts with a rest, followed by a dynamic '19'. The fifth staff begins with a rest, followed by a dynamic '13'. Measure 21 concludes with a dynamic '11' and a long sustained note.

Pno2

This musical score section for Pno2 spans measures 89 to 21. It features five staves. The top staff begins with a rest, followed by a dynamic 'pp' and the measure number '21'. The second staff starts with a rest, followed by a dynamic '19'. The third staff begins with a rest, followed by a dynamic '17'. The fourth staff starts with a rest, followed by a dynamic '13'. The fifth staff begins with a rest, followed by a dynamic '11'.

Pno3

This musical score section for Pno3 spans measures 89 to 21. It features five staves. The top staff begins with a rest, followed by a dynamic '7'. The second staff starts with a rest, followed by a dynamic '17'. The third staff begins with a rest, followed by a dynamic '11'. The fourth staff starts with a rest, followed by a dynamic '7'. The fifth staff begins with a rest, followed by a dynamic '5'.

Pno1

Pno2

Pno3

90

19

13

17

5

21

19

17

13

11

5

21

91

Pno1

Pno2

Pno3

92

Pno1 {

Pno2 {

Pno3 {

17

11

7

21

19

13

11

5

93

Pno1

Pno2

Pno3

Pno1

Pno2

Pno3

95

Pno1

Pno2

Pno3

96

Pno1

Pno2

Pno3

17

11

21

19

13

11

5

17

11

21

19

13

11

5

97
 58

Pno1
 Pno2
 Pno3

The Lessing Is Miracle

98

Pno3

59

21

19

17

13

11

p

The music consists of two systems separated by a vertical brace. The first system (measures 98-59) has a common time signature. The second system (measures 59-11) has a 6/8 time signature. The notation includes treble and bass staves with various note heads, stems, and rests. Measure 59 concludes with a dynamic marking 'p' and a series of sixteenth-note chords.

The Lessing Is Miracle

99

Pno3

This musical score page for Pno3 contains six staves of music. The top two staves are treble clef, and the bottom four are bass clef. Measure 99 starts with a melodic line in the treble clef staves. Measure 100 begins with a sustained note in the bass clef staves. Measures 101-102 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 103-104 continue this pattern. Measures 105-106 show a sustained note in the bass clef staves. Measures 107-108 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 109-110 continue this pattern. Measures 111-112 show a sustained note in the bass clef staves. Measures 113-114 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 115-116 continue this pattern. Measures 117-118 show a sustained note in the bass clef staves. Measures 119-120 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 121-122 continue this pattern. Measures 123-124 show a sustained note in the bass clef staves. Measures 125-126 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 127-128 continue this pattern. Measures 129-130 show a sustained note in the bass clef staves. Measures 131-132 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 133-134 continue this pattern. Measures 135-136 show a sustained note in the bass clef staves. Measures 137-138 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 139-140 continue this pattern. Measures 141-142 show a sustained note in the bass clef staves. Measures 143-144 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 145-146 continue this pattern. Measures 147-148 show a sustained note in the bass clef staves. Measures 149-150 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 151-152 continue this pattern. Measures 153-154 show a sustained note in the bass clef staves. Measures 155-156 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 157-158 continue this pattern. Measures 159-160 show a sustained note in the bass clef staves. Measures 161-162 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 163-164 continue this pattern. Measures 165-166 show a sustained note in the bass clef staves. Measures 167-168 show a rhythmic pattern of eighth and sixteenth notes in the treble clef staves. Measures 169-170 continue this pattern.

100

Pno3

21

19

13

11

The musical score for Pno3 consists of five staves. The top four staves are in treble clef and the bottom staff is in bass clef. Measure 21 starts with eighth-note pairs. Measure 19 begins with eighth-note pairs followed by sixteenth-note pairs. Measure 13 shows eighth-note pairs and sixteenth-note pairs. Measure 11 continues with eighth-note pairs. The bass staff has sustained notes throughout the measures.

102

Pno1

Pno2

Pno3

The Lessing Is Miracle

Pno1

Pno2

Pno3

The Lessing Is Miracle

Musical score for three pianos (Pno1, Pno2, Pno3) at measure 108.

Pno1: Treble clef. Measures 1-3 show eighth-note chords. Measure 4 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords. Measure 5 shows eighth-note chords. Measure 6 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords.

Pno2: Treble clef. Measures 1-3 show eighth-note chords. Measure 4 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords. Measure 5 shows eighth-note chords. Measure 6 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords.

Pno3: Treble clef. Measures 1-3 show eighth-note chords. Measure 4 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords. Measure 5 shows eighth-note chords. Measure 6 starts with a single eighth note followed by a sixteenth-note rest, then eighth-note chords.

The Lessing Is Miracle

III

Pno1

Pno2

Pno3

II4

Pno1

Pno2

Pno3

The Lessing Is Miracle

116

Pno1

Pno2

Pno3

11 13 15 7 9

11 13 15 7 9

13

118

Pno1

Pno2

Pno3

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