Romance Postmoderne

for two retuned virtual pianos

by Kyle Gann

2012

Romance Postmoderne (2012)

Romance Postmoderne is one of the pieces for multiple retuned pianos in what I call my 8x8 tuning (which I was not the first to explore). The tuning takes the 1st, 3rd, 5th, 7th, 9th, 11th, 13th, and 15th harmonics of Eb, and builds a harmonic series on each one, up to the 15th harmonic. The two virtual pianos are to be tuned as in the chart below, which uses a typographical facsmile of Ben Johnston's just-intonation notation for the pitch names:

Piano 2: Lower Keyboard
C1 = 38.891 cps

Keyboard key	Ratio to Eb	Pitch name	Freq. in hz	Cents above Eb
C1	1/1	Eb	38.891	0
C#1	11/8	Ab^	53.475	551
D1	3/2	Bb	58.337	702
D#1	13/8	Cb13	63.198	840
E1	7/4	D7b	68.059	969
F1	15/8	D	72.921	1088
F#1	2/1	Eb	77.782	0
G1	33/16	Eb^	80.213	53
G#1	9/4	F+	87.505	204
A1	39/16	Gb13	94.8	342
A#1	5/2	G	97.228	386
B1	21/8	Ab7+	102.089	471
C2	11/4	Ab^	106.95	551
C#2	45/16	A+	109.381	590
D2	3/1	Bb	116.673	702
D#2	99/32	Bb^	120.319	755
E2	13/4	Cb13	126.396	840
F2	27/8	C+	131.257	906
F#2	55/16	C^	133.688	938
G2	7/2	Db7	136.119	969
G#2	117/32	Db13	142.195	1044
A2	15/4	D	145.841	1088
A#2	121/32	Db^^-	147.057	1103
B2	63/16	Eb7+	153.133	1173
C3	4/1	Eb	155.564	0
C#3	65/16	Eb13	157.995	27
D3	33/8	Eb^	160.425	53
D#3	135/32	E+	164.071	92
E3	35/8	F7+	170.148	155
F3	143/32	Fb13^	173.794	192
F#3	9/2	F+	175.01	204
G3	75/16	F#+	182.302	275
G#3	77/16	Gb7^	187.163	320
A3	39/8	Gb13	189.594	342
A#3	5/1	G	194.455	386
B3	81/16	G+	196.886	408
C4	165/32	G^	200.532	440

Keyboard key		Ratio	Name	Frequency	Cents above Eb
C#4		21/4	Ab7+	204.178	471
D4		11/2	Ab^	213.901	551
D#4		45/8	A+	218.762	590
E4		91/16	B7b13b	221.193	609
F4 >	E4	6/1	Bb	233.346	702
F#4		195/32	B13b	236.992	729
G4 >	F4	99/16	Bb^	240.638	755
G#4 >	F#4	25/4	B	243.07	773
A4		13/2	C13b	252.792	840
A#4		105/16	C7+	255.222	857
B4		27/4	C+	262.51	906
C5 >	C2	55/8	C^	267.376	938
C#5 >	C#2	7/1	Db7	272.237	969
D5 >	D2	225/32	C#+	273.452	977
D#5 >	D#2	117/16	Db13	284.39	1044
E5 >	E2	15/2	D	291.683	1088
F5 >	F2	121/16	Db^^-	294.113	1103
F#5 >	F#2	63/8	Eb7+	306.267	1173
G5 >	G2	8/1	Eb	311.128	0
G#5 >	G#2	65/8	Eb13	315.989	27
A5 >	A2	33/4	Eb^	320.851	53
A#5 >	A#2	135/16	E+	328.143	92
B5 >	B2	35/4	F7+	340.296	155
C6 >	C3	143/16	Fb13^	347.588	192
C#6 >	C#3	9/1	F+	350.019	204
D6 >	D3	75/8	F#+	364.603	275
D#6 >	D#3	77/8	Gb7^	374.326	320
E6 >	E3	39/4	Gb13	379.187	342

Piano 1: Upper keyboard
C#0 = 155.563 cps

Keyboard key	Ratio	Name	Frequency	Cents above Eb
C#0	1/1	Eb2	155.563	0
D0	35/32	F7+	170.147	155
D#0	143/128	Fb13^	173.793	192
E0	9/8	F+	175.008	204
F0	75/64	F#+	182.3	275
F#0	77/64	Gb7^	187.162	320
G0	39/32	Gb13	189.592	342
G#0	5/4	G	194.454	386
A0	81/64	G+	196.884	408
A#0	165/128	G^	200.53	440
B0	21/16	Ab7+	204.176	471
C1	169/128	A13b13b	205.392	481
C#1	11/8	Ab^	213.899	551
D1	45/32	A+	218.76	590
D#1	91/64	Bbb713	221.191	609
E1	3/2	Bb	233.345	702
F1	195/128	Bb13	236.99	729

F#1	49/32	Cb77+	238.206	738
G1	99/64	Bb^	240.637	755
G#1	25/16	B	243.067	773
A1	13/8	Cb13	252.79	840
A#1	105/64	C7+	255.221	857
B1	27/16	C+	262.512	906
C2	55/32	C^	267.374	938
C#2	7/4	Db7	272.235	969
D2	225/128	C#+	273.451	977
D#2	117/64	Db13	284389	1044
E2	15/8	D	291.68	1088
F2	121/64	Db^^-	294.111	1103
F#2	63/32	Eb7+	306.265	1173
G2	2/1	Eb	311.126	0
G#2	65/32	Eb13	315.987	27
A2	33/16	Eb^	320.849	53
A#2	135/64	E+	328.141	92
B2	35/16	F7+	340.294	155
C3	143/64	Fb13^	347.586	192
C#3	9/4	F+	350.017	204
D3	75/32	F#+	364.601	275
D#3	77/32	Gb7^	374.323	320
E3	39/16	Gb13	379.185	342
F3	5/2	G	388.906	386
F#3	81/32	G+	393.769	408
G3	165/64	G^	401.061	440
G#3	21/8	Ab7+	408.353	471
A3	169/64	A13b13b	410.784	481
A#3	11/4	Ab6	427.798	551
B3	45/16	A+	437.521	590
C4	91/32	B7b13b	442.382	609
C#4	3/1	Bb	466.689	702
D4	195/64	Bb13	473.981	729
D#4	49/16	Cb77+	476.412	738
E4	99/32	Bb^	481.273	755
F4	25/8	B	486.134	773
F#4	13/4	Cb13	505.58	840
G4	105/32	C7+	510.441	857
G#4	27/8	C+	525.025	906
A4	55/16	C^	534.748	938
A#4	7/2	Db7	544.471	969
B4	225/64	C#+	546.901	977
C5	117/32	Db13	568.777	1044
C#5	15/4	D	583.361	1088
D5	121/32	Db^^-	588.223	1103
D#5	63/16	Eb7+	612.529	1173
E5	4/1	Eb	622.252	0
F5	65/16	Eb13	631.975	27
F#5	33/8	Eb6	641.697	53
G5	135/32	E+	656.281	92
G#5	35/8	F7+	680.588	155

A5	143/32	Fb13^	695.172	192
A#5	9/2	F+	700.034	204
B5	75/16	F#+	729.201	275
C6	77/16	Gb7^	748.647	320
C#6	39/8	Gb13	758.37	342
D6	5/1	G	777.815	386
D#6	81/16	G+	787.538	408
E6	165/32	G^	802.122	440
F6	21/4	Ab7+	816.706	471
F#6	169/32	A13b13b	821.567	481
G6	11/2	Ab^	855.597	551
G#6	45/8	A+	875.042	590
A6	91/16	B7b13b	884.765	609
A#6	6/1	Bb	933.378	702
B6	195/32	Bb13	947.962	729
C7	49/8	Cb77+	952.823	738
C#7	99/16	Bb^	962.546	755
D7	25/4	B	972.269	773
D#7	13/2	Cb13	1011.16	840
E7	105/16	C7+	1020.882	857
F7	27/4	C+	1050.05	906
F#7	55/8	C^	1069.496	938
G7	7/1	Db7	1088.941	969
G#7	225/32	C#+	1093.802	977
A7	117/16	Db13	1137.554	1044
A#7	15/2	D	1166.723	1088
B7	121/16	Db^^-	1176.445	1103
C8	63/8	Eb7+	1225.059	1173
C#8	8/1	Eb	1244.504	0

For those who employ Lil Miss Scale Oven for microtuning, the files in ratios are as follows:

Lower Keyboard (Piano 2)
C1 = 38.891 cps

1/1, 11/8, 3/2, 13/8, 7/4, 15/8, 2/1, 33/16, 9/4, 39/16, 5/2, 21/8, 11/4, 45/16, 3/1, 99/32, 13/4, 27/8, 55/16, 7/2, 117/32, 15/4, 121/32, 63/16, 4/1, 65/16, 33/8, 135/32, 35/8, 143/32, 9/2, 75/16, 77/16, 39/8, 5/1, 81/16, 165/32, 21/4, 11/2, 45/8, 91/16, 6/1, 195/32, 99/16, 25/4, 13/2, 105/16, 27/4, 55/8, 7/1, 225/32, 117/16, 15/2, 121/16, 63/8, 8/1, 65/8, 33/4, 135/16, 35/4, 143/16, 9/1, 75/8, 77/8, 39/4

Upper keyboard (Piano 1)
C#0 = 155.563 cps
1/1, 35/32, 143/128, 9/8, 75/64, 77/64, 39/32, 5/4, 81/64, 165/128, 21/16, 169/128, 11/8, 45/32, 91/64, 3/2, 195/128, 49/32, 99/64, 25/16, 13/8, 105/64, 27/16, 55/32, 7/4, 225/128, 117/64, 15/8, 121/64, 63/32, 2/1, 65/32, 33/16, 135/64, 35/16, 143/64, 9/4, 75/32, 77/32, 39/16, 5/2, 81/32, 165/64, 21/8, 169/64, 11/4, 45/16, 91/32, 3/1, 195/64, 49/16, 99/32, 25/8, 13/4, 105/32, 27/8, 55/16, 7/2, 225/64, 117/32, 15/4, 121/32, 63/16, 4/1, 65/16, 33/8, 135/32, 35/8, 143/32, 9/2,

75/16, 77/16, 39/8, 5/1, 81/16, 165/32, 21/4, 169/32, 11/2, 45/16, 91/16, 6/1, 195/32, 49/8, 99/16, 25/4, 13/2, 105/16, 27/4, 55/8, 7/1, 225/32, 117/16, 15/2, 121/16, 63/8, 8/1

Duration: 8 ½ minutes

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