

Random Partial (1-7th harmonic) Version I

Durata approx. 12.30 minutes, dedicated to Erik Carlson

Håkon Thelin, 2021

This work explores the sonic differences between harmonic partials (just intonation) on the violin and the well-tempered piano. The material consists of 28 different partials on the violin, 7 on each string, which are combined with the piano's unison harmonious tones, sometimes creating pulsating interference tones of various intensity. The partials have been randomly chosen by a computer program until all partials are used.

Violin tuning (from low to high): Eflat-C-Fsharp-D

The four open strings are tuned in perfect correspondence with the unison note on the piano.

Random number series:

27, 7, 6, 11, 12, 16, 14, 13, 18, 25, 19, 10, 27, 15, 28, 4, 21, 19, 3, 14, 23, 23, 21, 25, 8, 10, 1, 3, 7, 3, 18, 21, 14, 21, 27, 1, 14, 12, 2, 1, 26, 25, 17, 1, 6, 4, 9, 16, 26, 5, 18, 26, 26, 11, 3, 2, 24, 11, 14, 21, 7, 12, 9, 19, 7, 7, 3, 5, 3, 11, 3, 23, 23, 26, 19, 27, 26, 24, 12, 27, 17, 20, 12, 4, 20, 3, 12, 2, 7, 23, 17, 17, 25, 9, 14, 16, 17, 3, 4, 5, 14, 27, 15, 8, 8, 25, 5, 2, 14, 2, 9, 22

String 1 (D):

Partials 1-7 correspond with numbers 1-7

String 2 (Fsharp):

Partials 1-7 correspond with numbers 8-14

String 3 (C):

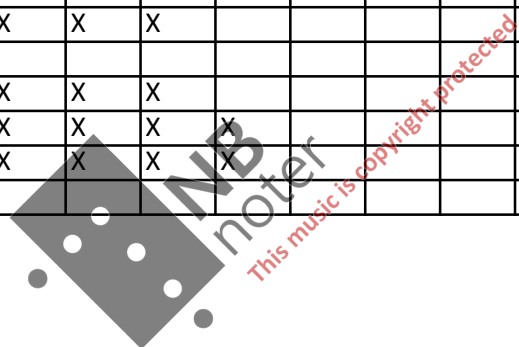
Partials 1-7 correspond with numbers 15-21

String 4 (Eflat):

Partials 1-7 correspond with numbers 22-28

Number series: Appearances in piece:

1	X	X	X	X						
2	X	X	X	X	X	X				
3	X	X	X	X	X	X	X	X	X	
4	X	X	X	X						
5	X	X	X	X						
6	X	X								
7	X	X	X	X	X	X				
8	X	X	X							
9	X	X	X	X						
10	X	X								
11	X	X	X	X						
12	X	X	X	X	X	X	X			
13	X									
14	X	X	X	X	X	X	X	X		
15	X	X								
16	X	X	X							
17	X	X	X	X	X					
18	X	X	X							
19	X	X	X	X						
20	X	X								
21	X	X	X	X	X					
22	X									
23	X	X	X	X	X					
24	X	X								
25	X	X	X	X	X					
26	X	X	X	X	X	X				
27	X	X	X	X	X	X				
28	X									



Random Partial (I-7th harmonic)

Tuning:
Eflat-C-Fsharp-D

Version I, for violin and piano

Håkon Thelin, 2021
Dedicated to Erik Carlson

Tempo: ♩=54

Vln.

Pno.

8va

IV/6 I/7 I/6 II/4 II/5 III/2 II/7 II/6 III/4

Ped. depressed throughout the piece

10

IV/4 III/5 II/3 IV/6 III/4 IV/7 I/4 III/7 III/5 I/3

20

II/7 IV/2 IV/2 III/7 IV/4 II/1 II/3 I/1 I/3 I/7

2

30

8va-----]

+2

-31

-31

-31

+2

-31

-14

I/3 III/4 III/7 II/7 III/7 IV/6 I/1 II/7 II/5 I/2

40

8va-----]

+2

-14

+2

8va-----]

8va-----]

-14

I/1 IV/5 IV/4 III/3 I/1 I/6 I/4 II/2 III/2 IV/5

50

8va-----]

-14

-14

-14

+2

8va-----]

+2

-31

I/5 III/4 IV/5 IV/5 II/4 I/3 I/2 IV/3 II/4 II/7

60

III/7 I/7 II/5 II/2 III/5 I/7 I/7 I/3 I/5 I/3

8va- -31 -31 -14 -14 -31 -31 8va- -14 8va- +2 8va- +2 3

70

II/4 I/3 IV/2 IV/2 IV/5 III/5 IV⁶ IV/5 IV/3 II/5

8va- +2 -14 +2 -14 +2 -14 +2 -14

80

IV/6 III/3 III/6 II/5 I/4 III/6 I/3 II/5 I/2 I/7

8va- +2 +2 -14 8va- +2 8va- -14 8va- -31

90

IV/2 III/3 III/3 IV/4 II/2 II/7 III/2 III/3 I/3 I/4

8va -14 -31

8va

100

I/5 II/7 IV/6 III/1 II/1 IV/4

8va -14 -31

8va

107

I/5 I/2 II/7 I/2 II/2 IV/1

8va -14 -31

8va