

Overview of MET-24 tuning, 3-D (2/1, 703.711, 57.422)

Prime mappings other than 2/1 (a separate generator):

3/2 (701.955c) = (+1, 0) = 703.711c (+1.756c)
 7/4 (968.826c) = (+3, +1) = 968.555c (-0.271c)
 11/8 (551.318c) = (-1, +1) = 553.711c (+2.393c)
 13/8 (840.528c) = (-4, +1) = 842.578c (+2.050c)

Alternative derivation:

12 5ths (MOS) at 703.711c plus large 5th at 716.602c plus 12 5ths (MOS) at 703.711c

Interval matrix (703.711-cent fifths within chain, 57.422-cent spacing generators)

septimal family (2.3.7)							pental family (2.3.5)					(2.3.17)			
(0,+1)	(+1,+1)	(+2,+1)	(+3,+1)	(+4,+1)	(+5,+1)	(+6,+1)	(+7,+1)	(+8,+1)	(+9,+1)	(+10,+1)	(+11,+1)				
57.4	761.1	264.8	968.5	472.3	1176.0	679.7	183.4	887.1	390.8	1094.5	598.2				
91/88	14/9	7/6	7/4	21/16	63/32	77/52	10/9	5/3	5/4	32/17	24/17				
58.0	764.9	266.9	968.8	470.8	1172.7	679.6	182.4	884.4	386.3	1095.0	597.0				
-0.614	-3.783	-2.027	-0.271	-1.485	-3.241	-0.071	+0.995	+2.751	+4.507	-0.513	-1.243				
n=12	n=11	n=10	n=9	n=8	n=7	n=6	n=5	n=4	n=3	n=2	n=1				
.....(-1,+1)						(-1,+1)				(-1,+1)			
.....553.7	1050.0	346.3	842.6	138.9	635.2	1131.4	427.7	924.0	220.3	716.6					
.....11/8	11/6	11/9	13/8	13/12	13/9	52/27	169/132	169/99	143/126	286/189					
.....551.3	1049.4	347.4	840.5	138.6	636.6	1134.7	427.8	925.8	219.1	717.2					
.....+2.393	+0.637	-1.119	+2.050	+0.295	-1.461	-3.217	-0.048	-1.804	+1.203	-0.553					
.....n=11	n=10	n=9	n=8	n=7	n=6	n=5	n=4	n=3	n=2	n=1					
central Zalzalian family							periseptimal family								
regular diatonic family							large/small Zalzalian family								
(0,0)	(+1,0)	(+2,0)	(+3,0)	(+4,0)	(+5,0)	(+6,0)	(+7,0)	(+8,0)	(+9,0)	(+10,0)	(+11,0)				
0.0	703.7	207.4	911.1	414.8	1118.6	622.3	126.0	829.7	333.4	1037.1	540.8				
1/1	3/2	9/8	22/13	14/11	21/11	63/44	14/13	21/13	63/52	20/11	231/169				
0.0	702.0	203.9	910.8	417.5	1119.5	621.4	128.3	830.3	332.2	1035.0	541.0				
just	+1.756	+3.512	+0.343	-2.664	-0.908	+0.848	-2.322	-0.566	+1.190	+2.114	-0.223				
n=24	n=22	n=20	n=18	n=16	n=14	n=12	n=10	n=8	n=6	n=4	n=2				
.....(-1,0)						(-1,0)				(-1,0)			
.....496.3	992.6	288.9	785.2	81.4	577.7	1074.0	370.3	866.6	162.9	659.2					
.....4/3	16/9	13/11	11/7	22/21	88/63	13/7	26/21	104/63	11/10	338/231					
.....498.0	996.1	289.2	782.5	80.5	578.6	1071.7	369.7	867.8	165.0	659.0					
.....-1.756	-3.512	-0.343	+2.664	+0.908	-0.848	+2.322	+0.566	-1.190	-2.114	+0.223					
.....n=22	n=20	n=18	n=16	n=14	n=12	n=10	n=8	n=6	n=4	n=2					
regular diatonic family							large/small Zalzalian family								
central Zalzalian family							periseptimal family								
(0,-1)	(+1,-1)	(+2,-1)	(+3,-1)	(+4,-1)	(+5,-1)	(+6,-1)	(+7,-1)	(+8,-1)	(+9,-1)	(+10,-1)	(+11,-1)				
1142.6	646.3	150.0	853.7	357.4	1061.1	564.8	68.6	772.3	276.0	979.7	483.4				
176/91	16/11	12/11	18/11	16/13	24/13	18/13	27/26	264/169	198/169	252/143	189/143				
1142.0	648.7	150.6	852.6	359.5	1061.4	563.4	65.3	772.2	274.2	980.9	482.8				
+0.614	+2.393	+0.637	-1.119	+2.050	+0.295	-1.461	-3.217	-0.048	-1.804	+1.203	-0.553				
n=12	n=11	n=10	n=9	n=8	n=7	n=6	n=5	n=4	n=3	n=2	n=1				
.....(-1,-1)						(-1,-1)				(-1,-1)			
.....438.9	935.2	231.4	727.7	24.0	520.3	1016.6	312.9	809.2	105.5	601.8					
.....9/7	12/7	8/7	32/21	64/63	104/77	9/5	6/5	8/5	17/16	17/12					
.....-3.783	-2.027	-0.271	-1.485	-3.241	-0.071	+0.995	+2.751	+4.507	-0.513	-1.243					
.....n=11	n=10	n=9	n=8	n=7	n=6	n=5	n=4	n=3	n=2	n=1					
septimal family (2.3.7)							pental family (2.3.5)					(2.3.17)			