Battaglian Analysis: Intervals in Simplemint-12 (2/1, 704.0)

T = (T)one, 208 cents; L = (L)imma, 80 cents; A = (A)potome, 128 cents;

T = 3d17; A = 2d17; L = 1d17example cents ratio 7-specific 12-specific generic E4-E4 0 1/1 (0d7, 0d12, 0d17) ----unison L min2, limma E4-F4 80 22/21 (1d7, 1d12, 1d17) Zal2S, Aug1, apotome F4-F#4 128 14/13 (0d7, 1d12, 2d17) C#4-Eb4 160 56/51 (2d7, 2d12, Zal2K, dim3 2d17) 208 9/8 (1d7, 2d12, 3d17) Maj2, tone D4-F4 288 13/11 (2d7, 3d12, 4d17) 1T + 1L Zal3S, aug2 17/14 (1d7, 3d12, 5d17) (3d7, 4d12, 5d12) 21/17 Zal3K, dim4 F#4-Bb4 368 3L + 1A14/11 (2d7, 4d12, 6d17) F4-A4 416 2Т Mai3 $2T_1 + 2A$ 7d17) 2T + 1L 4/3 (3d7, 5d12, Perf4 D4=G4Eb4-G#4 544 196/143 (2d7, 5d12, 8d17) Aug3, super4 2L + 3Adim5 B4=F5 576 39/28 (4d7, 6d12, 8d17) 2T + 2L4L + 2AAug4, tritone F4-B4 624 56/39 (3d7, 6d12, 9d17) 3T 3L + 3AG#4-Eb5 143/98 (5d7, 7d12, 9d17) dim6, sub5 656 5L + 2APerf5 D4-A4704 3/2 (4d7, 7d12, 10d17) 3T + 1L4L + 3Amin6 D4=Bb4 784 11/7 (5d7, 8d12, 11d17) 3T + 2L5L + 3A34/21 (4d7, 8d12, 12d17) Zal6S, Aug5 C4-G#4 832 4L + 4AZal6K, dim7 F#4-Eb5 864 28/17 (6d7, 9d12, 12d17) 6L + 3A22/13 (5d7, 9d12, 13d17) 4T + 1L G4-E5 912 min7 G4-F5 16/9 (6d7, 10d12, 14d17) 4T + 2L6L + 4AZal7S, Aug6 Eb4-C#5 1040 51/28 (5d7, 10d12, 15d17) $5I_1 + 5A$ Zal7K, dim8 B4-Bb5 1072 13/7 (7d7, 11d12, 15d17) 21/11 (6d7, 11d12, 16d17) 5T + 1L Perf8 F4-F5 1200 2/1 (7d7, 12d12, 17d17) 5T + 2L 7L + 5A

Battaglian motions or differences in Simplemint-12

Battaglian motions	or differences in Simplemint-12
T = tone;	L = limma; A = apotome

difference	interval	cents	ratio	5ths	generic	example	operation
diatonic	limma (L)	80	22/21	-5	(1d7, 1d12, 1d17)	Maj2-min3	adds an L
chromatic	apotome (A)	128	14/13	+7	(0d7, 1d12, 2d17)	min3-Maj3	adds an A
enharmonic	enh2 (E)	-48	147/143	-12	(1d7, 0d12, -1d17)	Aug2-min3	1A> 1L
zalzalian	Z-contrast (Z)	32	3146/3087	-17	(2d7, 1d12, 0d17)	Aug2-dim4	1A> 2L

In Simplemint-12, L and A are present as direct steps. but E and Z as differences only