

Appendix A

The Method for Evaluating and Comparing the Sound of Chords

Single pitches

The similarity of chords to the harmonic series is presented on a scale from 0.00% to 70.00% in this Appendix. However, as the similarity of single pitches to the harmonic series extends beyond the scale used, it is simply noted below.

The similarity of single pitches [0] to the harmonic series is:

100.00 %

Spectral pitches and weights

0 0 [100.00] 7 [50.00] 4 [33.33] 10 [20.00] 2 [12.50]	TSC1-1
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Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity



to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

Root candidates and weights

0 0 [100,00] 5 [50,00] 8 [33,33] 2 [20,00] 10 [12,50]	TSC1-1
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Root candidates and weights

Names

0

Single pitch

Single note

Unison

Perfect
unison

Shadja

(Northern

Indian

(Hindustani

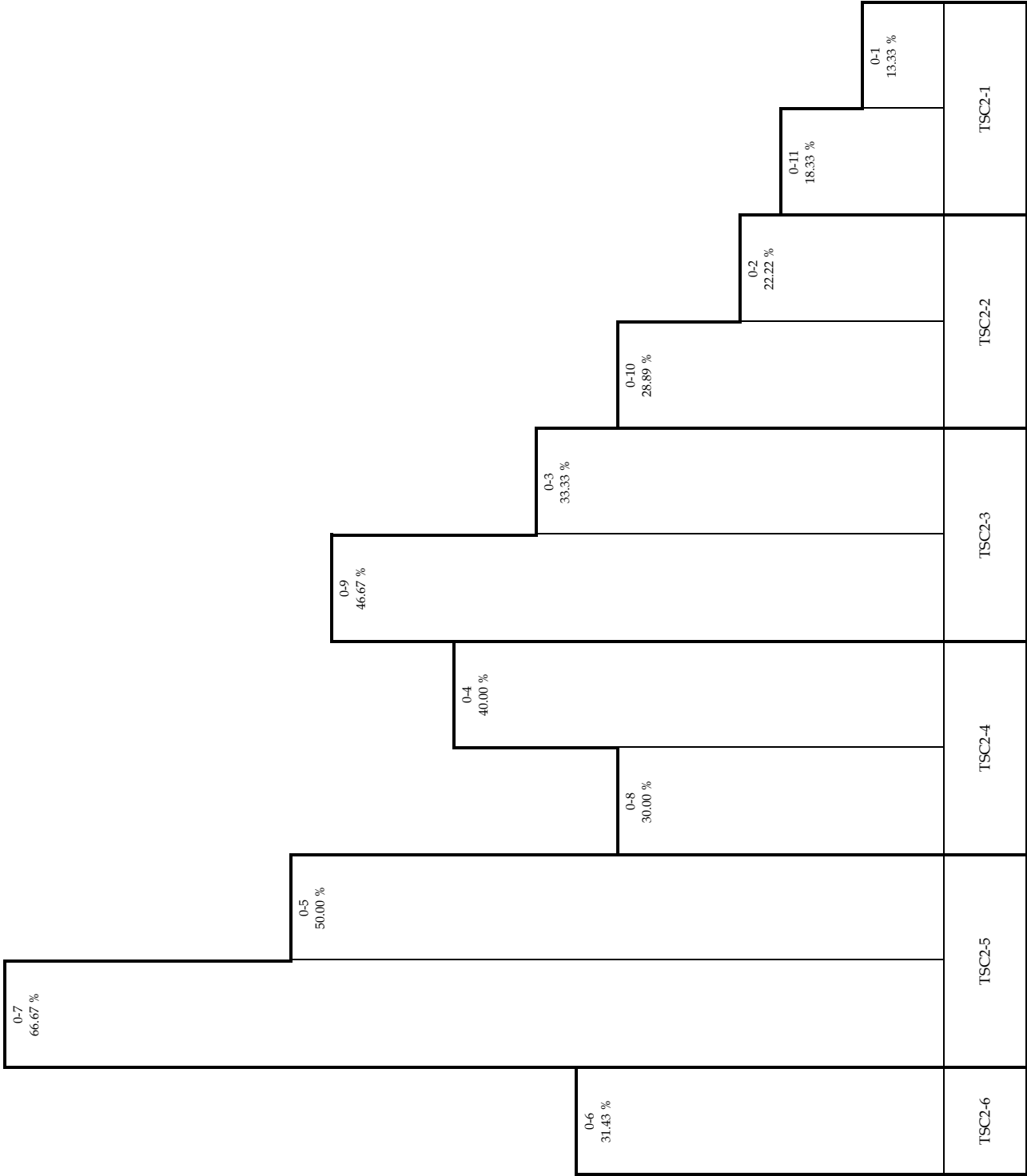
) classical
music)

TSCI-1

Names

Two-pitch chords (intervals)

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

Spectral pitches and weights

0-6	0-7	0-5	0-8	0-4	0-9	0-3	0-10	0-2	0-11	0-1			
0 [100.00] 6 [100.00] 4 [53.33] 10 [53.33] 1 [50.00] 7 [50.00] 2 [12.50] 8 [12.50]	7 [150.00] 0 [100.00] 2 [62.50] 4 [33.33] 11 [33.33] 5 [20.00] 10 [20.00] 9 [12.50]	0 [150.00] 5 [100.00] 7 [62.50] 4 [33.33] 9 [33.33] 3 [20.00] 10 [20.00] 2 [12.50]	0 [133.33] 8 [100.00] 3 [50.00] 7 [50.00] 4 [33.33] 10 [32.50] 6 [20.00] 2 [12.50]	4 [133.33] 0 [100.00] 7 [50.00] 11 [50.00] 8 [33.33] 2 [32.50] 10 [20.00] 6 [12.50]	0 [100.00] 9 [100.00] 4 [83.33] 7 [70.00] 1 [33.33] 10 [20.00] 2 [12.50] 11 [12.50]	0 [100.00] 3 [100.00] 7 [83.33] 10 [70.00] 4 [33.33] 1 [20.00] 2 [12.50] 5 [12.50]	10 [120.00] 0 [112.50] 5 [50.00] 7 [50.00] 2 [45.83] 4 [33.33] 8 [33.33] 20.00 [20.00]	0 [120.00] 2 [112.50] 7 [50.00] 9 [50.00] 4 [45.83] 6 [33.33] 10 [20.00]	0 [100.00] 11 [100.00] 6 [50.00] 7 [50.00] 3 [33.33] 4 [33.33] 9 [20.00] 10 [20.00] 1 [12.50] 2 [12.50]	0-1 0 [100.00] 1 [100.00] 7 [50.00] 8 [50.00] 4 [33.33] 5 [33.33] 10 [20.00] 11 [20.00] 2 [12.50] 3 [12.50]			
TSC2-6	TSC2-5						TSC2-4		TSC2-3		TSC2-2		TSC2-1

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-7 75.00 %	0-5 75.00 %	0-4 55.56 %	0-8 55.56 %	0-3 0 % 2 equal roots	0-9 0 % 2 equal roots	0-2 6.67 %	0-11 0 % 2 equal roots	0-1 0 % 2 equal roots
				TSC2-3	TSC2-4	TSC2-5	TSC2-6	TSC2-1

Root candidates and weights

0-6	0-7	0-5	0-8	0-4	0-9	0-3	0-10	0-2	0-11	0-1
0 [100.00] 6 [100.00] 2 [62.22] 8 [62.22] 5 [50.00] 11 [50.00] 4 [12.50] 10 [12.50]	0 [175.00] 7 [100.00] 5 [72.92] 3 [33.33] 8 [33.33] 2 [20.00] 9 [20.00] 10 [12.50]	5 [175.00] 0 [100.00] 10 [72.92] 1 [33.33] 8 [33.33] 2 [20.00] 7 [20.00] 3 [12.50]	8 [155.56] 0 [100.00] 1 [50.00] 5 [50.00] 10 [37.92] 4 [33.33] 2 [33.33] 6 [20.00] 10 [12.50]	0 [155.56] 4 [100.00] 5 [50.00] 9 [50.00] 2 [37.92] 8 [33.33] 8 [33.33] 6 [20.00] 10 [12.50]	0 [100.00] 9 [100.00] 5 [97.22] 2 [81.67] 8 [33.33] 11 [20.00] 7 [12.50] 10 [12.50]	0 [100.00] 3 [100.00] 8 [97.22] 5 [81.67] 11 [33.33] 2 [20.00] 1 [12.50] 10 [12.50]	0 [140.00] 10 [131.25] 8 [53.47] 3 [50.00] 5 [50.00] 6 [33.33] 2 [20.00]	2 [140.00] 0 [131.25] 10 [53.47] 5 [50.00] 7 [50.00] 8 [33.33] 4 [33.33] 4 [20.00]	0 [100.00] 11 [100.00] 4 [50.00] 5 [50.00] 7 [33.33] 8 [33.33] 1 [20.00] 2 [20.00] 9 [20.00] 10 [12.50] 11 [12.50]	0 [100.00] 1 [100.00] 5 [50.00] 6 [50.00] 8 [33.33] 9 [33.33] 2 [20.00] 3 [20.00] 10 [12.50] 11 [12.50]
TSC2-6	TSC2-5	TSC2-4	TSC2-3	TSC2-2	TSC2-1	TSC2-1	TSC2-1	TSC2-1	TSC2-1	TSC2-1

Root candidates and weights

Names

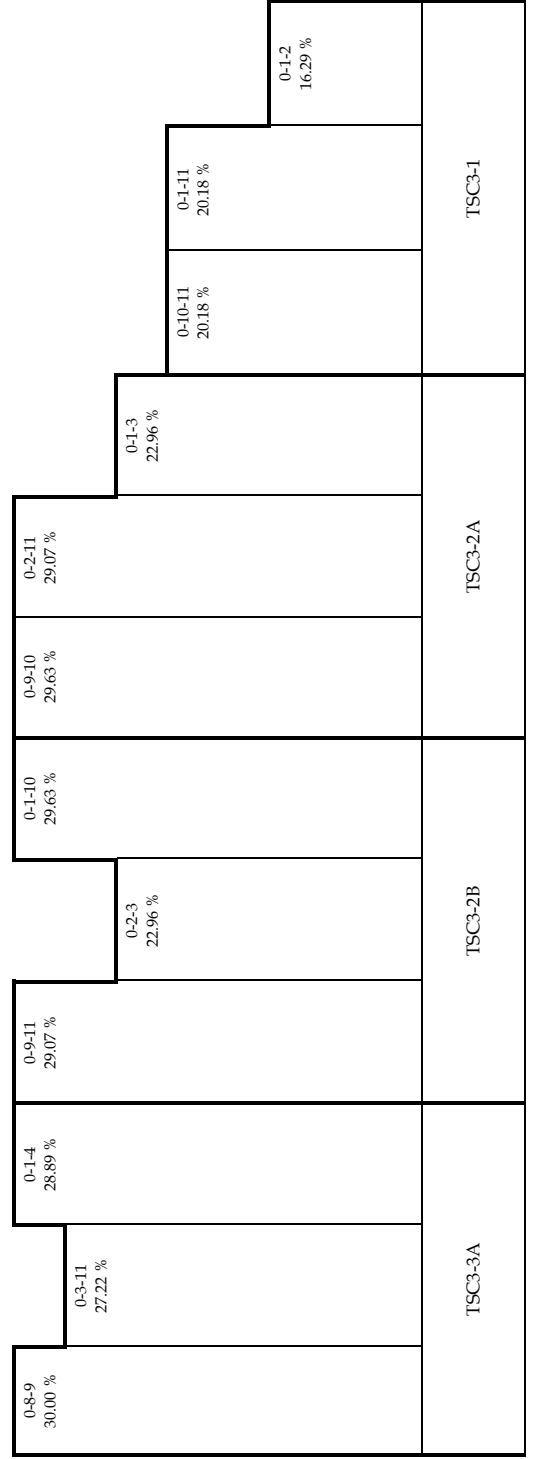
0-1	Minor second	Komal Rishabhha (Northern Indian Hindustani) classical music)	Semitone Half step	TSC2-1
0-11	Major seventh	Shuddha Nishada (Northern Indian Hindustani) classical music)		
0-2	Major second	Shuddha Rishabhha (Northern Indian Hindustani) classical music)	Whole tone Whole step	TSC2-2
0-10	Minor seventh	Komal Nishada (Northern Indian Hindustani) classical music)	Warao Ditonic scale (Native South America)	
0-3	Minor third	Komal Gandhara (Northern Indian Hindustani) classical music)	TSC2-3	
0-9	Major sixth	Shuddha Dhaivata (Northern Indian Hindustani) classical music)		
0-4	Major third	Diminished fourth	Shuddha Gandhara (Northern Indian Hindustani) classical music)	TSC2-4
0-8	Minor sixth	Augmented fifth	Komal Dhaivata (Northern Indian Hindustani) classical music)	
0-5	Perfect fourth	Honchoshi (2-note scale) (Japan)	Madhyama (Northern Indian Hindustani) classical music)	TSC2-5
0-7	Perfect fifth	Niagari (2- note scale) (Japan)	Panchama (Northern Indian Hindustani) classical music)	
0-6	Tritone	Augmented fourth	Diminished fifth	TSC2-6
		Tivra Madhyama (Northern Indian Hindustani) classical music)		

Names

Three-pitch chords (triads and trichords)

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-8-9	0-3-11	0-1-4	0-9-11	0-2-3	0-1-10	0-9-10	0-2-11	0-1-3	0-10-11	0-1-11	0-1-2
0 [133.33] 8 [100.00] 9 [100.00] 4 [83.33] 7 [70.00] 3 [50.00] 1 [33.33] 10 [32.50] 6 [20.00] 2 [12.50] 11 [12.50]	3 [133.33] 0 [100.00] 11 [100.00] 7 [83.33] 10 [70.00] 6 [50.00] 4 [33.33] 1 [32.50] 9 [20.00] 2 [12.50] 5 [12.50]	4 [133.33] 0 [100.00] 1 [100.00] 8 [83.33] 11 [70.00] 7 [50.00] 5 [33.33] 2 [32.50] 10 [20.00] 3 [12.50] 6 [12.50]	9 [120.00] 11 [112.50] 0 [100.00] 4 [83.33] 7 [70.00] 6 [50.00] 1 [45.83] 3 [33.33] 10 [20.00] 2 [12.50]	0 [120.00] 2 [112.50] 3 [100.00] 7 [83.33] 10 [70.00] 9 [50.00] 4 [45.83] 6 [33.33] 1 [20.00] 5 [12.50]	10 [120.00] 0 [112.50] 1 [100.00] 5 [83.33] 8 [70.00] 7 [50.00] 2 [45.83] 4 [33.33] 11 [20.00] 3 [12.50]	10 [120.00] 0 [112.50] 9 [100.00] 4 [83.33] 7 [70.00] 5 [50.00] 2 [45.83] 1 [33.33] 8 [20.00] 11 [12.50]	0 [120.00] 2 [112.50] 11 [100.00] 6 [83.33] 9 [70.00] 7 [50.00] 4 [45.83] 3 [33.33] 10 [20.00] 1 [12.50]	1 [120.00] 3 [112.50] 0 [100.00] 7 [83.33] 10 [70.00] 8 [50.00] 5 [45.83] 4 [33.33] 11 [20.00] 2 [12.50]	10 [120.00] 0 [112.50] 11 [100.00] 5 [50.00] 6 [50.00] 7 [50.00] 2 [45.83] 3 [33.33] 4 [33.33] 8 [20.00] 9 [20.00] 1 [12.50]	11 [120.00] 1 [112.50] 0 [100.00] 6 [50.00] 7 [50.00] 8 [50.00] 3 [45.83] 4 [33.33] 5 [33.33] 6 [33.33] 9 [20.00] 10 [20.00] 2 [20.00] 11 [12.50]	0 [120.00] 2 [112.50] 1 [100.00] 7 [50.00] 8 [50.00] 9 [50.00] 4 [45.83] 5 [33.33] 6 [33.33] 10 [20.00] 11 [20.00] 3 [12.50]
TSC3-3A						TSC3-2A			TSC3-1		

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-8-9 55.56 %	0-3-11 55.56 %	0-1-4 55.56 %	0-9-11 6.67 %	0-2-3 6.67 %	0-1-10 6.67 %	0-9-10 6.67 %	0-2-11 6.67 %	0-1-3 6.67 %	0-10-11 6.67 %	0-1-11 6.67 %	0-1-2 6.67 %
TSC3-3A			TSC3-2B			TSC3-2A			TSC3-1		

Root candidates and weights

0-8-9 8 [155.56] 0 [100.00] 9 [100.00] 5 [97.22] 2 [81.67] 1 [50.00] 10 [37.92] 4 [33.33] 11 [20.00] 6 [12.50] 7 [12.50]	0-3-11 11 [155.56] 0 [100.00] 3 [100.00] 8 [97.22] 5 [81.67] 4 [50.00] 1 [37.92] 7 [33.33] 2 [20.00] 9 [12.50] 10 [12.50]	0-1-4 0 [155.56] 1 [100.00] 4 [100.00] 9 [97.22] 6 [81.67] 5 [50.00] 2 [37.92] 8 [33.33] 3 [20.00] 10 [12.50] 11 [12.50]	0-9-11 11 [140.00] 9 [131.25] 0 [100.00] 5 [97.22] 2 [81.67] 7 [53.47] 4 [50.00] 8 [33.33] 1 [20.00] 10 [12.50]	0-2-3 2 [140.00] 0 [131.25] 3 [100.00] 8 [97.22] 5 [81.67] 10 [53.47] 7 [50.00] 11 [33.33] 4 [20.00] 1 [12.50]	0-1-10 0 [140.00] 10 [131.25] 1 [100.00] 6 [97.22] 3 [81.67] 8 [53.47] 5 [50.00] 9 [33.33] 2 [20.00] 11 [12.50]	0-9-10 0 [140.00] 10 [131.25] 9 [100.00] 5 [97.22] 2 [81.67] 8 [53.47] 3 [50.00] 6 [33.33] 11 [20.00] 7 [12.50]	0-2-11 2 [140.00] 0 [131.25] 11 [100.00] 7 [97.22] 4 [81.67] 10 [53.47] 5 [50.00] 8 [33.33] 1 [20.00] 9 [12.50]	0-1-3 3 [140.00] 1 [131.25] 0 [100.00] 8 [97.22] 5 [81.67] 11 [53.47] 6 [50.00] 9 [33.33] 2 [20.00] 10 [12.50]	0-10-11 0 [140.00] 10 [131.25] 11 [100.00] 8 [53.47] 3 [50.00] 4 [50.00] 5 [50.00] 6 [50.00] 7 [33.33] 8 [33.33] 9 [33.33] 2 [20.00] 3 [20.00] 4 [20.00] 10 [20.00] 11 [12.50]	0-1-11 1 [140.00] 11 [131.25] 0 [100.00] 9 [53.47] 4 [50.00] 5 [50.00] 6 [50.00] 7 [33.33] 8 [33.33] 9 [33.33] 2 [20.00] 3 [20.00] 4 [20.00] 10 [20.00] 11 [12.50]	0-1-2 2 [140.00] 0 [131.25] 1 [100.00] 10 [53.47] 5 [50.00] 6 [50.00] 7 [50.00] 8 [33.33] 9 [33.33] 3 [20.00] 4 [20.00] 11 [20.00] 11 [12.50]	TSC3-3A	TSC3-2B	TSC3-2A	TSC3-1
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Root candidates and weights

Names

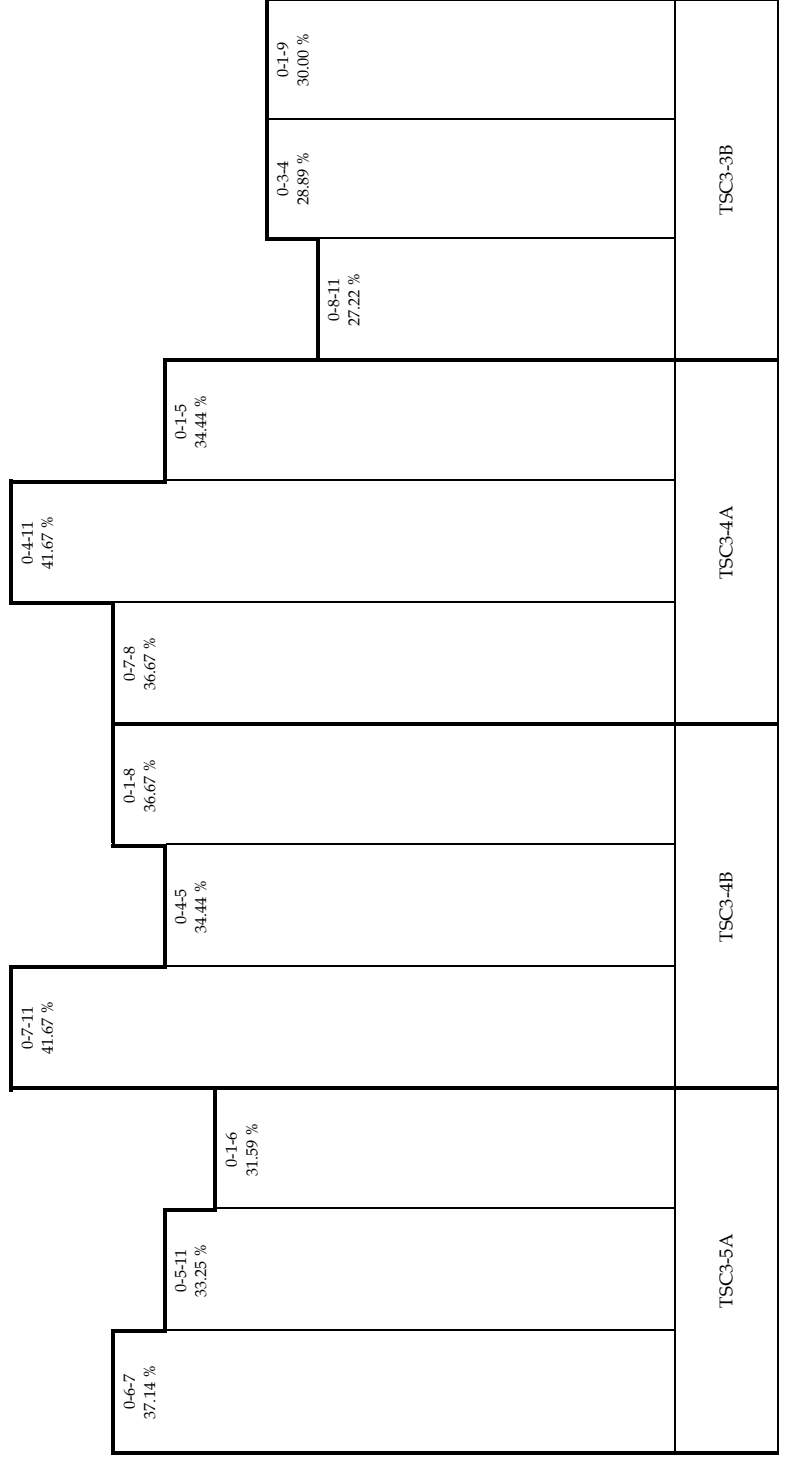
0-1-2 Chromatic cluster	0-1-11 0-1-11 trichord	0-10-11 0-10-11 trichord	0-1-3 0-1-3 trichord	0-2-11 0-2-11 trichord	0-9-10 0-9-10 trichord	0-1-10 0-1-10 trichord	0-2-3 0-2-3 trichord	0-9-11 0-9-11 trichord	0-1-4 0-1-4 trichord	0-3-11 0-3-11 trichord	0-8-9 0-8-9 trichord	TSC3-1
												TSC3-2A
												TSC3-2B
												TSC3-3A

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-6-7	0-5-11	0-1-6	0-7-11	0-4-5	0-1-8	0-7-8	0-4-11	0-1-5	0-8-11	0-3-4	0-1-9												
7 [150.00] 0 [100.00] 6 [100.00] 2 [62.50] 4 [53.33] 10 [53.33] 1 [50.00] 11 [33.33] 5 [20.00] 8 [12.50] 9 [12.50]	0 [150.00] 5 [100.00] 11 [100.00] 7 [62.50] 3 [53.33] 9 [53.33] 6 [50.00] 4 [33.33] 10 [33.33] 1 [20.00] 1 [12.50] 2 [12.50]	1 [150.00] 0 [100.00] 6 [100.00] 8 [62.50] 4 [53.33] 10 [53.33] 7 [50.00] 5 [33.33] 11 [33.33] 11 [20.00] 2 [12.50] 3 [12.50]	7 [150.00] 11 [133.33] 0 [100.00] 2 [62.50] 6 [50.00] 3 [33.33] 4 [33.33] 9 [33.33] 5 [32.50] 10 [20.00] 10 [20.00] 1 [12.50]	0 [150.00] 4 [133.33] 5 [100.00] 7 [62.50] 11 [50.00] 8 [33.33] 9 [33.33] 2 [32.50] 3 [20.00] 10 [20.00] 6 [20.00] 1 [12.50]	8 [150.00] 0 [133.33] 1 [100.00] 3 [62.50] 7 [50.00] 4 [33.33] 5 [33.33] 10 [32.50] 6 [20.00] 11 [20.00] 2 [20.00] 2 [12.50]	7 [150.00] 0 [133.33] 8 [100.00] 2 [62.50] 3 [50.00] 4 [33.33] 11 [33.33] 10 [32.50] 5 [20.00] 6 [20.00] 9 [20.00] 1 [12.50]	11 [150.00] 4 [133.33] 0 [100.00] 6 [62.50] 7 [50.00] 3 [33.33] 8 [33.33] 2 [32.50] 9 [20.00] 10 [20.00] 1 [20.00] 1 [12.50]	0 [150.00] 5 [133.33] 1 [100.00] 7 [62.50] 8 [50.00] 4 [33.33] 9 [33.33] 3 [32.50] 10 [20.00] 11 [20.00] 2 [20.00] 2 [12.50]	0 [133.33] 8 [100.00] 11 [100.00] 3 [83.33] 6 [83.33] 7 [70.00] 4 [50.00] 4 [33.33] 10 [33.33] 11 [32.50] 9 [32.50] 10 [20.00] 1 [12.50] 2 [12.50]	4 [133.33] 0 [100.00] 3 [100.00] 7 [83.33] 10 [70.00] 11 [50.00] 8 [33.33] 2 [32.50] 1 [20.00] 5 [12.50] 6 [12.50]	1 [133.33] 0 [100.00] 9 [100.00] 4 [83.33] 7 [70.00] 8 [50.00] 5 [33.33] 11 [32.50] 10 [32.50] 10 [20.00] 2 [12.50] 3 [12.50]												
TSC3-5A						TSC3-4B						TSC3-4A						TSC3-3B					

Spectral pitches and weights

to 220%
to 210%
to 200%
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to 180%
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to 140%
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to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
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to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-6-7 75.00 %	0-5-11 75.00 %	0-1-6 75.00 %	TSC3-5A				0-7-11 12.50 %	0-4-5 12.50 %	0-1-8 12.50 %	0-7-8 12.50 %	0-4-11 12.50 %	0-1-5 12.50 %	0-8-11 55.56 %	0-3-4 55.56 %	0-1-9 55.56 %
			TSC3-4B												
Root clarity															

Root candidates and weights

0-6-7	0-5-11	0-1-6	0-7-11	0-4-5	0-1-8	0-7-8	0-4-11	0-1-5	0-8-11	0-3-4	0-1-9
0 [175.00] 6 [100.00] 7 [100.00] 5 [72.92] 2 [62.22] 8 [62.22] 11 [50.00] 3 [33.33] 9 [20.00] 4 [12.50] 10 [12.50]	5 [175.00] 0 [100.00] 11 [100.00] 10 [72.92] 1 [62.22] 7 [62.22] 8 [50.00] 4 [33.33] 2 [20.00] 3 [12.50] 9 [12.50]	6 [175.00] 0 [100.00] 1 [100.00] 11 [72.92] 2 [62.22] 8 [62.22] 5 [50.00] 9 [33.33] 3 [20.00] 4 [12.50] 10 [12.50]	0 [175.00] 7 [155.56] 11 [100.00] 5 [72.92] 4 [50.00] 9 [37.92] 3 [33.33] 8 [33.33] 1 [20.00] 2 [20.00] 10 [12.50]	5 [175.00] 0 [155.56] 4 [100.00] 10 [72.92] 9 [50.00] 2 [37.92] 1 [33.33] 8 [33.33] 6 [20.00] 7 [20.00] 3 [12.50]	1 [175.00] 8 [155.56] 0 [100.00] 6 [72.92] 5 [50.00] 10 [37.92] 4 [33.33] 9 [33.33] 2 [20.00] 3 [20.00] 11 [12.50]	0 [175.00] 8 [155.56] 7 [100.00] 5 [72.92] 1 [50.00] 10 [37.92] 3 [33.33] 4 [33.33] 2 [20.00] 9 [20.00] 6 [12.50]	4 [175.00] 0 [155.56] 11 [100.00] 9 [72.92] 5 [50.00] 2 [37.92] 7 [33.33] 8 [33.33] 1 [20.00] 6 [20.00] 10 [12.50]	5 [175.00] 1 [155.56] 0 [100.00] 10 [72.92] 6 [50.00] 3 [37.92] 8 [33.33] 9 [33.33] 2 [20.00] 7 [20.00] 11 [12.50]	8 [155.56] 0 [100.00] 11 [100.00] 4 [97.22] 1 [81.67] 5 [50.00] 10 [37.92] 7 [33.33] 2 [20.00] 6 [12.50] 9 [12.50]	0 [155.56] 3 [100.00] 4 [100.00] 8 [97.22] 5 [81.67] 9 [50.00] 2 [37.92] 11 [33.33] 6 [20.00] 1 [12.50] 10 [12.50]	9 [155.56] 0 [100.00] 1 [100.00] 5 [97.22] 2 [81.67] 6 [50.00] 11 [37.92] 8 [33.33] 3 [20.00] 7 [12.50] 10 [12.50]
TSC3-5A			TSC3-4B			TSC3-4A			TSC3-3B		

Root candidates and weights

Names

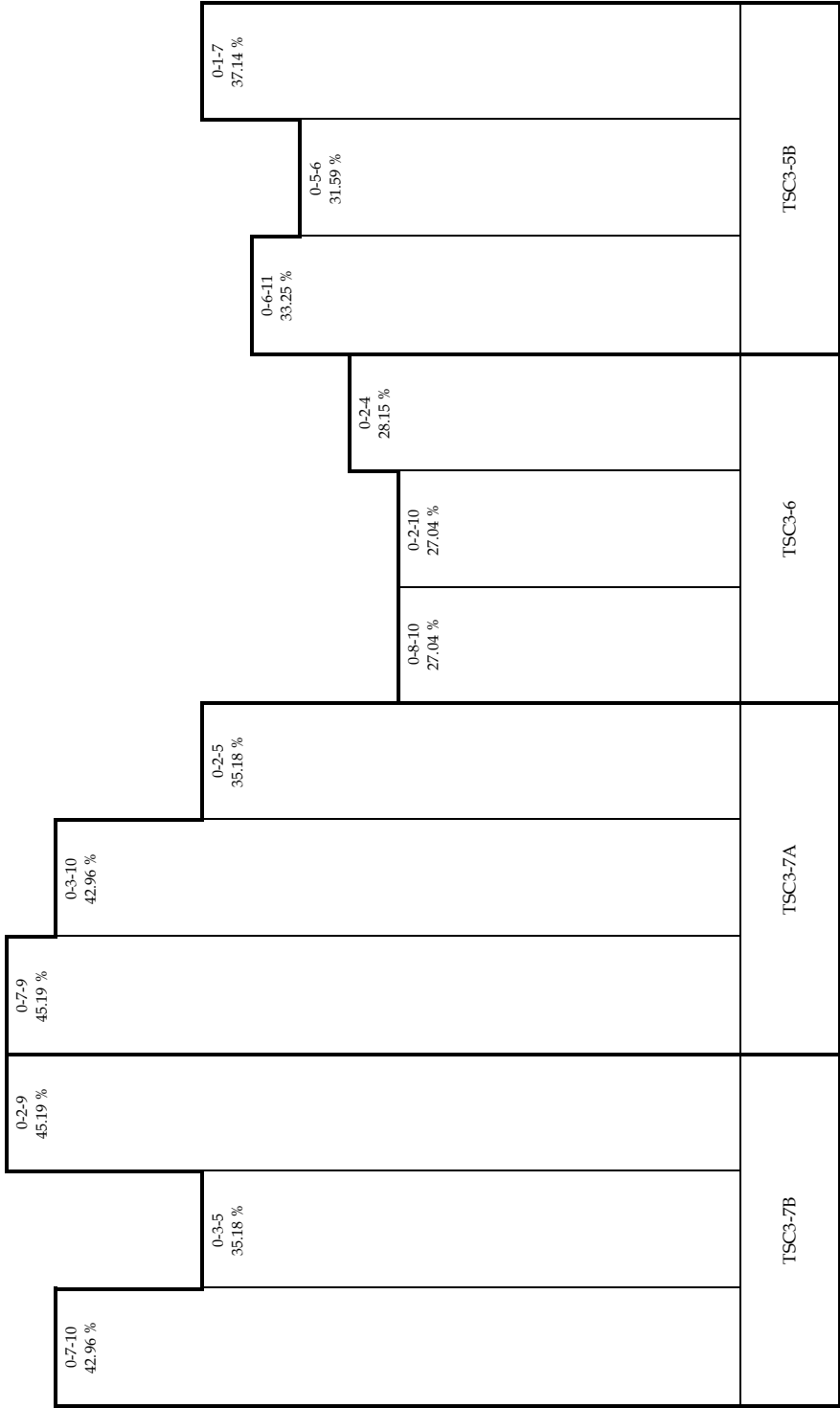
0-1-9 0-1-9 trichord	0-3-4 0-3-4 trichord	0-8-11 0-8-11 trichord	TSC3-3B
0-1-5 0-1-5 trichord	0-4-11 0-4-11 trichord	TSC3-4A	
0-7-8 0-7-8 trichord	0-1-8 0-1-8 trichord		
0-4-5 0-4-5 trichord	0-7-11 0-7-11 trichord		TSC3-5A
0-1-6 Webern trichord	0-5-11 Fifth scale degree Balinese pentatonic triad	0-6-7 0-6-7 trichord	

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
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to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-7-10	0-3-5	0-2-9	0-7-9	0-3-10	0-2-5	0-8-10	0-2-10	0-2-4	0-6-11	0-5-6	0-1-7			
7 [150.00] 10	0 [150.00] 3 [120.00] 5 [112.50]	9 [150.00] 0 [120.00] 2 [112.50] 4 [95.83]	7 [170.00] 9 [112.50] 0 [100.00] 4 [83.33]	10 [170.00] 0 [112.50] 3 [100.00] 7 [83.33]	0 [170.00] 2 [112.50] 5 [100.00] 9 [83.33]	0 [145.83] 10 [132.50] 8 [120.00] 3 [50.00]	2 [145.83] 0 [132.50] 10 [120.00] 5 [50.00]	4 [145.83] 2 [132.50] 0 [120.00] 7 [50.00]	6 [150.00] 0 [100.00] 11 [100.00] 1 [62.50]	0 [150.00] 5 [100.00] 6 [100.00] 7 [62.50]	7 [150.00] 0 [100.00] 1 [100.00] 2 [62.50]			
5 [95.83] 10 [70.00] 4 [33.33]	10 [95.83] 7 [70.00] 1 [33.33]	7 [95.83] 11 [70.00] 1 [33.33]	2 [62.50] 11 [45.83]	5 [62.50] 2 [45.83]	7 [62.50] 4 [45.83]	5 [50.00] 7 [50.00] 7 [50.00]	7 [50.00] 9 [50.00] 11 [50.00]	9 [50.00] 4 [53.33] 10 [53.33]	4 [62.50] 4 [53.33] 10 [53.33]	4 [62.50] 4 [53.33] 10 [53.33]	5 [62.50] 5 [53.33] 11 [53.33]			
8 [20.00] 9 [12.50]	1 [20.00] 2 [12.50]	10 [20.00] 11 [12.50]	5 [20.00] 10 [20.00]	1 [20.00] 8 [20.00]	3 [20.00] 10 [20.00]	4 [45.83] 2 [33.33] 6 [20.00]	4 [45.83] 6 [33.33] 8 [20.00]	6 [45.83] 6 [33.33] 10 [20.00]	3 [50.00] 9 [33.33] 2 [20.00]	9 [50.00] 3 [33.33] 2 [20.00]	8 [50.00] 10 [33.33] 3 [20.00]			
TSC3-7B						TSC3-7A			TSC3-6			TSC3-5B		

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-7-10 94.29 %	0-3-5 94.29 %	0-2-9 94.29 %	0-7-9 21.74 %	0-3-10 21.74 %	0-2-5 21.74 %	0-8-10 10.06 %	0-2-10 10.06 %	0-2-4 10.06 %	0-6-11 75.00 %	0-5-6 75.00 %	0-1-7 75.00 %
						TSC3-7A			TSC3-6		
TSC3-7B			TSC3-7A			TSC3-6			TSC3-5B		

Root candidates and weights

0-7-10	0-3-5	0-2-9	0-7-9	0-3-10	0-2-5	0-8-10	0-2-10	0-2-4	0-6-11	0-5-6	0-1-7			
0 [255.00] 10 [131.25] 7 [100.00] 3 [97.22] 5 [72.92] 8 [53.47] 6 [33.33] 2 [20.00] 9 [20.00]	5 [255.00] 3 [131.25] 0 [100.00] 8 [97.22] 10 [72.92] 1 [53.47] 11 [33.33] 2 [20.00] 7 [20.00]	2 [255.00] 0 [131.25] 9 [100.00] 5 [97.22] 7 [72.92] 10 [53.47] 8 [33.33] 4 [20.00] 11 [20.00]	0 [175.00] 5 [143.75] 9 [140.00] 7 [131.25] 2 [81.67] 3 [33.33] 8 [33.33] 11 [20.00] 10 [12.50]	3 [175.00] 8 [143.75] 0 [140.00] 10 [131.25] 5 [81.67] 6 [33.33] 11 [33.33] 2 [20.00] 1 [12.50]	5 [175.00] 10 [143.75] 2 [140.00] 0 [131.25] 7 [81.67] 1 [33.33] 8 [33.33] 4 [20.00] 3 [12.50]	8 [218.75] 10 [198.75] 0 [140.00] 6 [53.47] 1 [50.00] 3 [50.00] 5 [50.00] 4 [33.33] 2 [20.00]	10 [218.75] 0 [198.75] 2 [140.00] 8 [53.47] 3 [50.00] 5 [50.00] 7 [50.00] 6 [33.33] 4 [20.00]	0 [218.75] 2 [198.75] 4 [140.00] 10 [53.47] 5 [50.00] 7 [50.00] 9 [50.00] 8 [33.33] 6 [20.00]	11 [175.00] 0 [100.00] 6 [100.00] 4 [72.92] 2 [72.92] 8 [62.22] 5 [62.22] 7 [62.22] 1 [50.00] 7 [33.33] 1 [20.00] 9 [12.50] 10 [12.50]	5 [175.00] 0 [100.00] 6 [100.00] 10 [72.92] 2 [72.92] 8 [62.22] 11 [62.22] 1 [50.00] 7 [33.33] 7 [20.00] 3 [12.50] 4 [12.50]	0 [175.00] 1 [100.00] 7 [100.00] 5 [72.92] 3 [72.92] 9 [62.22] 6 [62.22] 8 [50.00] 6 [33.33] 2 [20.00] 10 [12.50] 11 [12.50]			
TSC3-7B						TSC3-7A			TSC3-6			TSC3-5B		

Root candidates and weights

Names

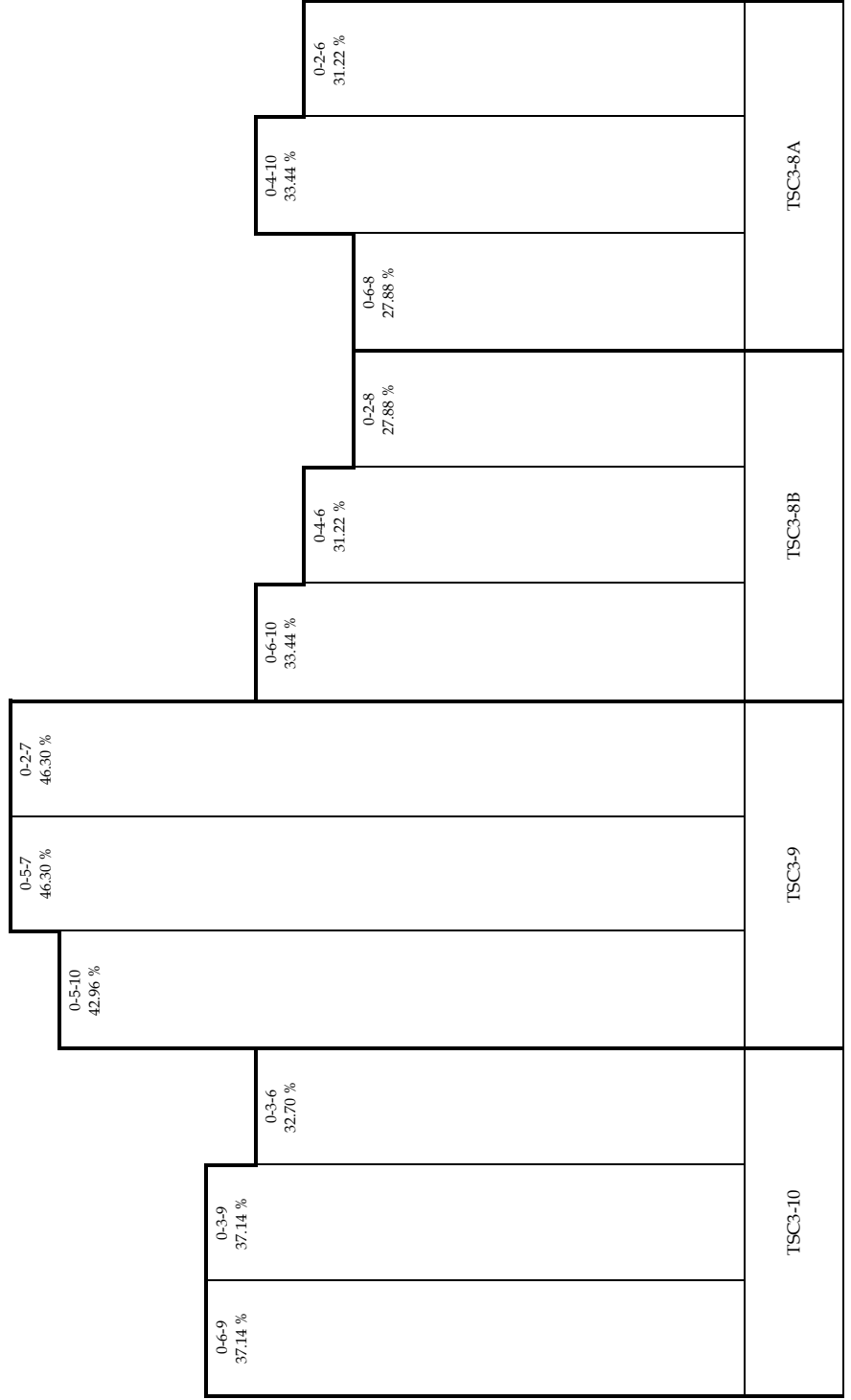
0-1-7 0-1-7 trichord	0-5-6 0-5-6 trichord	0-6-11 Second scale degree Balinese pentatonic triad	TSC3-6
0-2-4 0-2-4 trichord	0-2-10 0-2-10 trichord	0-8-10 0-8-10 trichord	
0-2-5 0-2-5 trichord	0-3-10 Ute Tritonic scale (Native North American) m3m7	0-7-9 0-7-9 trichord	
0-2-9 0-2-9 trichord	0-3-5 0-3-5 trichord	0-7-10 0-7-10 trichord P5m7	
0-3-5 0-3-5 trichord			
0-7-10 0-7-10 trichord P5m7			
			TSC3-7B
			TSC3-7A
			TSC3-5B

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-6-9	0-3-9	0-3-6	0-5-10	0-5-7	0-2-7	0-6-10	0-4-6	0-2-8	0-6-8	0-4-10	0-2-6
4 [103.33] 0 [100.00] 6 [100.00] 9 [100.00] 1 [100.00] 83.33 [70.00] 10 [53.33] 2 [12.50] 8 [12.50] 11 [12.50]	7 [103.33] 0 [100.00] 3 [100.00] 9 [100.00] 4 [100.00] 83.33 [70.00] 10 [53.33] 2 [12.50] 5 [12.50] 11 [12.50]	10 [103.33] 0 [100.00] 3 [100.00] 6 [100.00] 7 [100.00] 83.33 [70.00] 1 [83.33] 4 [70.00] 4 [53.33] 2 [12.50] 5 [12.50] 8 [12.50] 8 [12.50]	0 [162.50] 5 [150.00] 10 [120.00] 7 [62.50] 2 [45.83] 4 [33.33] 9 [33.33] 3 [20.00] 8 [20.00]	7 [162.50] 0 [150.00] 5 [120.00] 2 [62.50] 9 [45.83] 4 [33.33] 11 [33.33] 3 [20.00] 10 [20.00]	2 [162.50] 7 [150.00] 0 [120.00] 9 [62.50] 4 [45.83] 6 [33.33] 11 [33.33] 5 [20.00] 10 [20.00]	10 [153.33] 0 [112.50] 6 [100.00] 4 [53.33] 1 [50.00] 5 [50.00] 7 [50.00] 11 [50.00] 2 [45.83] 8 [32.50]	4 [153.33] 6 [112.50] 0 [100.00] 10 [53.33] 1 [50.00] 7 [50.00] 11 [50.00] 8 [45.83] 2 [32.50]	0 [153.33] 2 [112.50] 8 [100.00] 6 [53.33] 3 [50.00] 7 [50.00] 9 [50.00] 4 [45.83] 10 [32.50]	0 [133.33] 6 [120.00] 8 [112.50] 10 [65.83] 4 [53.33] 1 [50.00] 3 [50.00] 7 [50.00] 2 [50.00] 6 [12.50]	4 [133.33] 10 [120.00] 0 [112.50] 2 [65.83] 8 [53.33] 5 [50.00] 7 [50.00] 11 [50.00] 6 [12.50]	6 [133.33] 0 [120.00] 2 [112.50] 4 [65.83] 10 [53.33] 1 [50.00] 7 [50.00] 9 [50.00] 8 [50.00] 8 [12.50]
TSC3-9						TSC3-8B			TSC3-8A		
TSC3-10											

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-6-9 55.00 %	0-3-9 55.00 %	0-3-6 55.00 %	TSC3-10			0-5-10 39.29 %	0-5-7 39.29 %	0-2-7 39.29 %	0-6-10 11.11 %	0-4-6 11.11 %	0-2-8 11.11 %	0-6-8 75.24 %	0-4-10 75.24 %	0-2-6 75.24 %	TSC3-8A	TSC3-8B	TSC3-9	TSC3-10

Root candidates and weights

0-6-9	0-3-9	0-3-6	0-5-10	0-5-7	0-2-7	0-6-10	0-4-6	0-2-8	0-6-8	0-4-10	0-2-6			
2 [155.00] 0 [100.00] 6 [100.00] 9 [100.00] 5 [97.22] 11 [81.67] 8 [62.22] 4 [12.50] 7 [12.50] 10 [12.50]	5 [155.00] 0 [100.00] 3 [100.00] 9 [100.00] 8 [100.00] 97.22 [97.22] 2 [81.67] 11 [62.22] 1 [12.50] 7 [12.50] 10 [12.50]	8 [155.00] 0 [100.00] 3 [100.00] 6 [100.00] 11 [100.00] 97.22 [97.22] 5 [81.67] 2 [62.22] 1 [12.50] 4 [12.50] 10 [12.50]	10 [243.75] 5 [175.00] 0 [140.00] 3 [72.92] 8 [53.47] 1 [33.33] 6 [33.33] 2 [20.00] 7 [20.00]	5 [243.75] 0 [175.00] 7 [140.00] 10 [72.92] 3 [53.47] 1 [33.33] 8 [33.33] 2 [20.00] 9 [20.00]	0 [243.75] 7 [175.00] 2 [140.00] 5 [72.92] 10 [53.47] 3 [33.33] 8 [33.33] 4 [20.00] 9 [20.00]	6 [155.56] 0 [140.00] 10 [131.25] 8 [98.75] 2 [62.22] 3 [50.00] 5 [50.00] 11 [50.00] 4 [12.50]	0 [155.56] 6 [140.00] 4 [131.25] 2 [98.75] 8 [62.22] 5 [50.00] 9 [50.00] 11 [50.00] 10 [12.50]	8 [155.56] 2 [140.00] 0 [131.25] 10 [98.75] 4 [62.22] 1 [50.00] 5 [50.00] 7 [50.00] 6 [50.00] 7 [12.50]	8 [230.00] 6 [131.25] 0 [100.00] 2 [62.22] 4 [53.47] 1 [50.00] 5 [50.00] 11 [50.00] 10 [50.00] 2 [37.92]	0 [230.00] 10 [131.25] 4 [100.00] 6 [62.22] 8 [53.47] 3 [50.00] 5 [50.00] 9 [50.00] 2 [37.92]	2 [230.00] 0 [131.25] 6 [100.00] 8 [62.22] 10 [53.47] 5 [50.00] 7 [50.00] 11 [50.00] 4 [37.92]			
TSC3-10						TSC3-9			TSC3-8B			TSC3-8A		

Root candidates and weights

Names

0-2-6	Second inversion Italian sixth	0-4-10	Italian sixth M3m7	0-6-8	First inversion Italian sixth	0-2-8	First inversion major flat 5	0-4-6	Major flat 5 Major flat 5th	0-6-10	Second inversion major flat 5 d5m7	0-2-7	Add 9 omit 3 trichord Ilteric chord	0-5-7	Suspended triad sus Three-pitch harmonic similarity scale Warao Tritonic scale (Native South America)	0-5-10	Perfect quartal trichord Sansagari scale (Japan) First scale degree pentatonic minor triad Second scale degree Chinese-Mongolian pentatonic triad Third scale degree pentatonic minor triad Third scale degree Chinese-Mongolian pentatonic triad Third scale degree Balinese pentatonic triad Fourth scale degree pentatonic minor triad Fifth scale degree Chinese-Mongolian pentatonic triad	0-3-6	Diminished triad	0-3-9	First inversion diminished triad	0-6-9	Second inversion diminished triad	TSC3-8A
																		TSC3-8B						
																		TSC3-9						
																		TSC3-10						

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-4-8 36.67 %	0-5-9 45.56 %	0-4-7 46.67 %	0-3-8 37.78 %	0-5-8 37.78 %	0-4-9 45.56 %	0-3-7 46.67 %	TSC3-12	TSC3-11B	TSC3-11A
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Spectral pitches and weights

0-4-8	0-5-9	0-4-7	0-3-8	0-5-8	0-4-9	0-3-7
0 [133.33] 4 [133.33] 8 [133.33] 3 [50.00] 7 [50.00] 11 [50.00] 2 [32.50] 6 [32.50] 10 [32.50]	0 [150.00] 9 [133.33] 5 [100.00] 4 [83.33] 7 [82.50] 1 [33.33] 3 [20.00] 10 [20.00] 2 [20.00] 11 [12.50] [12.50]	7 [150.00] 4 [133.33] 0 [100.00] 11 [83.33] 2 [82.50] 8 [33.33] 5 [20.00] 10 [20.00] 6 [12.50] 9 [12.50]	3 [150.00] 0 [133.33] 8 [100.00] 7 [83.33] 10 [82.50] 4 [33.33] 1 [20.00] 6 [20.00] 2 [12.50] 5 [12.50]	0 [183.33] 5 [100.00] 8 [100.00] 3 [70.00] 7 [62.50] 4 [33.33] 9 [33.33] 10 [32.50] 6 [20.00] 2 [12.50]	4 [183.33] 0 [100.00] 9 [100.00] 7 [70.00] 11 [62.50] 1 [33.33] 8 [33.33] 2 [32.50] 10 [20.00] 6 [20.00] 9 [12.50]	7 [183.33] 0 [100.00] 3 [100.00] 10 [70.00] 2 [62.50] 4 [33.33] 11 [33.33] 5 [32.50] 1 [20.00] 9 [12.50]
TSC3-12	TSC3-11B					TSC3-11A

Spectral pitches and weights

Root candidates and weights

0-4-8	0-5-9	0-4-7	0-3-8	0-5-8	0-4-9	0-3-7
0 [155.56] 4 [155.56] 8 [155.56] 1 [50.00] 5 [50.00] 9 [50.00] 2 [37.92] 6 [37.92] 10 [37.92]	5 [275.00] 0 [100.00] 9 [100.00] 2 [81.67] 10 [72.92] 7 [37.92] 1 [33.33] 8 [33.33] 11 [33.33] 3 [20.00] 10 [12.50] 3 [12.50]	0 [275.00] 4 [100.00] 7 [100.00] 9 [81.67] 5 [72.92] 2 [37.92] 3 [33.33] 8 [33.33] 6 [20.00] 10 [12.50]	8 [275.00] 0 [100.00] 3 [100.00] 5 [81.67] 1 [72.92] 10 [37.92] 4 [33.33] 11 [33.33] 2 [20.00] 6 [12.50]	5 [175.00] 8 [155.56] 10 [123.75] 0 [100.00] 1 [100.00] 4 [97.22] 3 [33.33] 2 [20.00] 7 [20.00] 3 [12.50] 6 [12.50]	9 [175.00] 0 [155.56] 2 [123.75] 4 [100.00] 5 [100.00] 8 [97.22] 11 [33.33] 6 [20.00] 11 [20.00] 7 [20.00] 10 [12.50] 10 [12.50]	0 [175.00] 3 [155.56] 5 [123.75] 7 [100.00] 8 [100.00] 11 [97.22] 2 [33.33] 2 [20.00] 9 [20.00] 1 [12.50] 10 [12.50]
TSC3-12	TSC3-11B					TSC3-11A

Root candidates and weights

Names

0-4-8 Augmented triad	0-5-9 Second inversion major triad 6 4 Tonic 6/4 chord Fourth scale degree Chinese-Mongolian pentatonic triad Fifth scale degree pentatonic minor triad	0-4-7 Major triad 5 3 Neapolitan sixth Peruvian Tritonic 1 scale	0-3-8 First inversion major triad 6 3 or 6 First scale degree Balinese pentatonic triad	0-5-8 Second inversion minor triad Fourth scale degree Balinese pentatonic triad	0-4-9 First inversion minor triad First scale degree Chinese-Mongolian pentatonic triad Second scale degree pentatonic minor triad	0-3-7 Minor triad	TSC3-11A
							TSC3-11B
							TSC3-12

Names

Four-pitch chords (seventh chords and tetrachords)

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-8-10-11 24.35 %	0-1-9-11 26.57 %	0-1-2-10 25.74 %	0-2-3-4 24.07 %	0-8-9-10 25.74 %	0-2-10-11 26.57 %	0-1-3-11 24.35 %	0-1-2-4 24.07 %	0-9-10-11 23.80 %	0-1-10-11 24.91 %	0-1-2-11 23.80 %	0-1-2-3 19.63 %	TSC4-2B	TSC4-2A	TSC4-1
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Spectral pitches and weights

0-8-10-11	0-1-9-11	0-1-2-10	0-2-3-4	0-8-9-10	0-2-10-11	0-1-3-11	0-1-2-4	0-9-10-11	0-1-10-11	0-1-2-11	0-1-2-3
0 [145.83] 10 [132.50] 8 [120.00] 11 [100.00] 3 [83.33] 6 [70.00] 5 [50.00] 7 [50.00] 2 [45.83] 4 [33.33] 9 [20.00] 1 [12.50]	1 [145.83] 11 [132.50] 9 [120.00] 0 [100.00] 4 [83.33] 7 [70.00] 6 [50.00] 8 [50.00] 3 [45.83] 5 [33.33] 10 [20.00] 2 [12.50]	2 [145.83] 0 [132.50] 10 [120.00] 1 [100.00] 5 [83.33] 8 [70.00] 7 [50.00] 9 [50.00] 4 [45.83] 6 [33.33] 11 [20.00] 3 [12.50]	4 [145.83] 2 [132.50] 0 [120.00] 3 [100.00] 7 [83.33] 10 [70.00] 9 [50.00] 11 [50.00] 6 [45.83] 8 [33.33] 1 [20.00] 5 [12.50]	0 [145.83] 10 [132.50] 8 [120.00] 9 [100.00] 4 [83.33] 7 [70.00] 3 [50.00] 5 [50.00] 2 [45.83] 1 [33.33] 6 [20.00] 11 [12.50]	2 [145.83] 0 [132.50] 10 [120.00] 11 [100.00] 6 [83.33] 9 [70.00] 5 [50.00] 7 [50.00] 4 [45.83] 3 [33.33] 8 [20.00] 1 [12.50]	3 [145.83] 1 [132.50] 11 [120.00] 0 [100.00] 7 [83.33] 10 [70.00] 6 [50.00] 8 [50.00] 5 [45.83] 4 [33.33] 9 [20.00] 2 [12.50]	4 [145.83] 2 [132.50] 0 [120.00] 1 [100.00] 8 [83.33] 11 [70.00] 7 [50.00] 9 [50.00] 6 [45.83] 5 [33.33] 10 [20.00] 3 [12.50]	9 [120.00] 10 [120.00] 0 [112.50] 11 [112.50] 4 [83.33] 7 [70.00] 5 [50.00] 6 [50.00] 1 [45.83] 2 [45.83] 3 [45.83] 8 [33.33] 9 [33.33] 10 [20.00]	10 [120.00] 11 [120.00] 0 [112.50] 1 [112.50] 5 [83.33] 8 [70.00] 6 [50.00] 7 [50.00] 2 [45.83] 3 [45.83] 4 [45.83] 5 [45.83] 6 [33.33] 7 [33.33] 8 [20.00]	0 [120.00] 1 [120.00] 2 [112.50] 3 [112.50] 6 [83.33] 9 [70.00] 7 [50.00] 8 [50.00] 3 [45.83] 4 [45.83] 5 [45.83] 6 [33.33] 10 [20.00]	0 [120.00] 1 [120.00] 2 [112.50] 3 [112.50] 7 [83.33] 10 [70.00] 8 [50.00] 9 [50.00] 4 [45.83] 5 [45.83] 6 [45.83] 11 [33.33] 11 [20.00]
TSC4-2B						TSC4-2A			TSC4-1		

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-8-10-11 10.06 %	0-1-9-11 10.06 %	0-1-2-10 10.06 %	0-2-3-4 10.06 %	0-8-9-10 10.06 %	0-2-10-11 10.06 %	0-1-3-11 10.06 %	0-1-2-4 10.06 %	0-9-10-11 0 % 2 equal roots	0-1-10-11 0 % 2 equal roots	0-1-2-11 0 % 2 equal roots	0-1-2-3 0 % 2 equal roots	TSC4-1	
TSC4-2B				TSC4-2A									
													Root clarity

Root candidates and weights

0-8-10-11	0-1-9-11	0-1-2-10	0-2-3-4	0-8-9-10	0-2-10-11	0-1-3-11	0-1-2-4	0-9-10-11	0-1-10-11	0-1-2-11	0-1-2-3		
8 [218.75] 10 [198.75] 0 [140.00] 11 [100.00] 4 [97.22] 1 [81.67] 6 [53.47] 3 [50.00] 5 [50.00] 7 [33.33] 2 [20.00] 9 [12.50]	9 [218.75] 11 [198.75] 1 [140.00] 0 [100.00] 5 [97.22] 2 [81.67] 7 [53.47] 4 [50.00] 6 [50.00] 8 [33.33] 3 [20.00] 10 [12.50]	10 [218.75] 0 [198.75] 2 [140.00] 1 [100.00] 6 [97.22] 3 [81.67] 8 [53.47] 5 [50.00] 7 [50.00] 9 [33.33] 4 [20.00] 11 [12.50]	0 [218.75] 2 [198.75] 4 [140.00] 3 [100.00] 8 [97.22] 5 [81.67] 10 [53.47] 7 [50.00] 9 [50.00] 11 [33.33] 6 [20.00] 1 [12.50]	8 [218.75] 10 [198.75] 0 [140.00] 9 [100.00] 5 [97.22] 2 [81.67] 6 [53.47] 1 [50.00] 3 [50.00] 4 [33.33] 11 [20.00] 7 [12.50]	10 [218.75] 0 [198.75] 2 [140.00] 11 [100.00] 7 [97.22] 4 [81.67] 8 [53.47] 3 [50.00] 5 [50.00] 6 [33.33] 1 [20.00] 9 [12.50]	11 [218.75] 1 [198.75] 3 [140.00] 0 [100.00] 8 [97.22] 5 [81.67] 9 [53.47] 4 [50.00] 6 [50.00] 7 [33.33] 2 [20.00] 10 [12.50]	0 [218.75] 2 [198.75] 4 [140.00] 1 [100.00] 9 [97.22] 6 [81.67] 10 [53.47] 5 [50.00] 7 [50.00] 8 [33.33] 3 [20.00] 11 [12.50]	0 [140.00] 11 [140.00] 9 [131.25] 10 [131.25] 5 [97.22] 2 [81.67] 7 [53.47] 8 [53.47] 3 [50.00] 4 [50.00] 6 [50.00] 7 [50.00] 9 [33.33] 1 [20.00] 2 [20.00]	0 [140.00] 1 [140.00] 10 [131.25] 11 [131.25] 6 [97.22] 3 [81.67] 8 [53.47] 9 [53.47] 4 [50.00] 5 [50.00] 7 [50.00] 8 [50.00] 9 [33.33] 2 [20.00]	1 [140.00] 2 [140.00] 0 [131.25] 11 [131.25] 7 [97.22] 4 [81.67] 9 [53.47] 10 [53.47] 5 [53.47] 6 [50.00] 6 [50.00] 8 [50.00] 8 [33.33] 3 [33.33] 2 [20.00]	2 [140.00] 3 [140.00] 0 [131.25] 1 [131.25] 8 [97.22] 5 [81.67] 10 [53.47] 11 [53.47] 6 [50.00] 7 [50.00] 9 [50.00] 9 [33.33] 4 [33.33] 4 [20.00]		
TSC4-2B						TSC4-2A						TSC4-1	

Root candidates and weights

Names

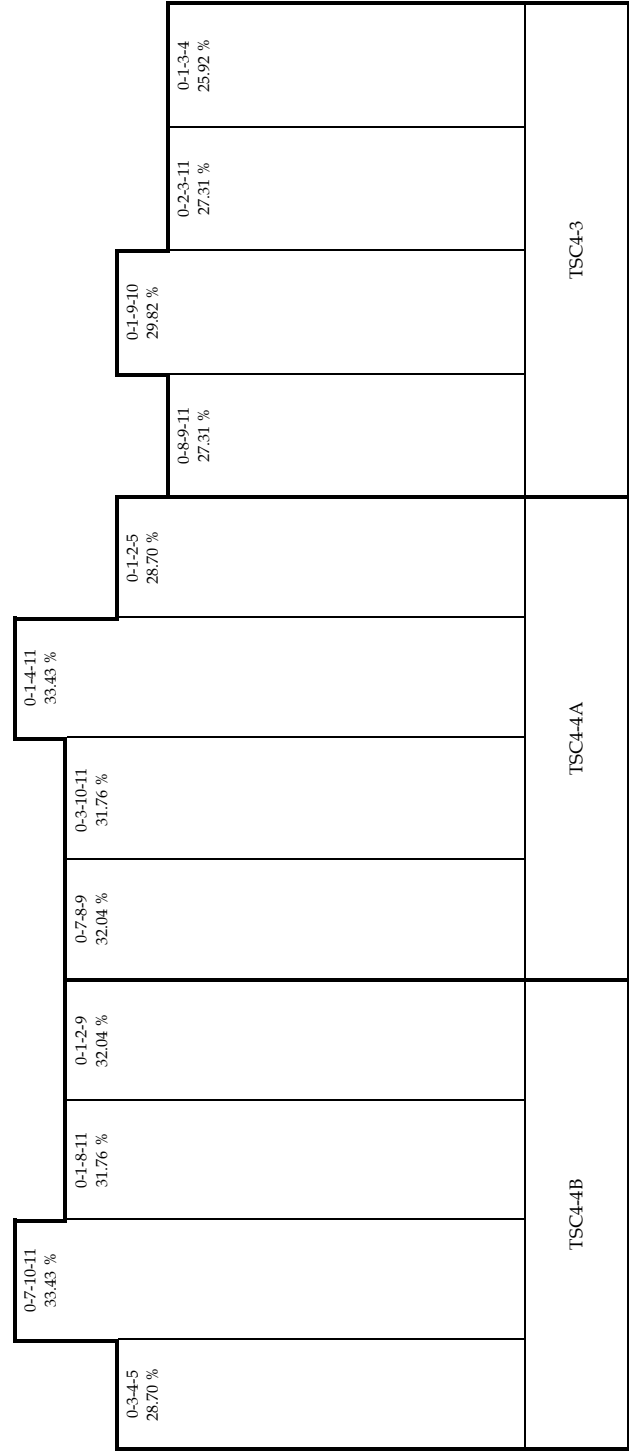
0-1-2-3 0-1-2-3 tetrachord 0-1-2-3 cluster	0-1-2-11 0-1-2-11 tetrachord	0-1-10-11 0-1-10-11 tetrachord	0-9-10-11 0-9-10-11 tetrachord	0-1-2-4 0-1-2-4 tetrachord	0-1-3-11 0-1-3-11 tetrachord	0-2-10-11 0-2-10-11 tetrachord	0-8-9-10 0-8-9-10 tetrachord	0-2-3-4 0-2-3-4 tetrachord	0-1-2-10 0-1-2-10 tetrachord	0-1-9-11 0-1-9-11 tetrachord	0-8-10-11 0-8-10-11 tetrachord	TSC4-1
												TSC4-2A
												TSC4-2B

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-3-4-5	0-7-10-11	0-1-8-11	0-1-2-9	0-7-8-9	0-3-10-11	0-1-4-11	0-1-2-5	0-8-9-11	0-1-9-10	0-2-3-11	0-1-3-4	
0 [150.00]	7 [150.00]	8 [150.00]	9 [150.00]	7 [170.00]	10 [170.00]	11 [170.00]	0 [170.00]	0 [133.33]	1 [133.33]	3 [133.33]	4 [133.33]	
4 [133.33]	11 [133.33]	0 [133.33]	1 [133.33]	0 [133.33]	3 [133.33]	4 [133.33]	5 [133.33]	9 [120.00]	10 [120.00]	0 [120.00]	1 [120.00]	
3 [120.00]	10 [120.00]	11 [120.00]	0 [120.00]	9 [112.50]	0 [112.50]	1 [112.50]	2 [112.50]	11 [112.50]	0 [112.50]	2 [112.50]	3 [112.50]	
5 [112.50]	0 [112.50]	1 [112.50]	2 [112.50]	8 [100.00]	11 [100.00]	0 [100.00]	1 [100.00]	8 [100.00]	9 [100.00]	11 [100.00]	0 [100.00]	
7 [95.83]	2 [95.83]	3 [95.83]	4 [95.83]	4 [83.33]	7 [83.33]	8 [83.33]	9 [83.33]	3 [83.33]	4 [83.33]	6 [83.33]	7 [83.33]	
10 [70.00]	5 [70.00]	6 [70.00]	7 [70.00]	2 [62.50]	5 [62.50]	6 [62.50]	7 [62.50]	4 [62.50]	5 [62.50]	7 [62.50]	8 [62.50]	
11 [50.00]	6 [50.00]	7 [50.00]	8 [50.00]	3 [50.00]	6 [50.00]	7 [50.00]	8 [50.00]	6 [50.00]	7 [50.00]	9 [50.00]	10 [50.00]	
8 [33.33]	3 [33.33]	4 [33.33]	5 [33.33]	11 [45.83]	2 [45.83]	3 [45.83]	4 [45.83]	7 [70.00]	8 [70.00]	10 [70.00]	11 [70.00]	
9 [33.33]	4 [33.33]	5 [33.33]	6 [33.33]	1 [33.33]	4 [33.33]	5 [33.33]	6 [33.33]	1 [45.83]	2 [45.83]	4 [45.83]	5 [45.83]	
2 [32.50]	9 [32.50]	10 [32.50]	11 [32.50]	10 [32.50]	1 [32.50]	2 [32.50]	3 [32.50]	10 [32.50]	11 [32.50]	1 [32.50]	2 [32.50]	
1 [20.00]	8 [20.00]	9 [20.00]	10 [20.00]	5 [20.00]	8 [20.00]	9 [20.00]	10 [20.00]	2 [12.50]	3 [12.50]	5 [12.50]	6 [12.50]	
6 [12.50]	1 [12.50]	2 [12.50]	3 [12.50]	6 [20.00]	9 [20.00]	10 [20.00]	11 [20.00]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	
TSC4-4B						TSC4-4A						TSC4-3

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-3-4-5 63.93 %	0-7-10-11 63.93 %	0-1-8-11 63.93 %	0-1-2-9 63.93 %	0-7-8-9 12.50 %	0-3-10-11 12.50 %	0-1-4-11 12.50 %	0-1-2-5 12.50 %	0-8-9-11 11.11 %	0-1-9-10 11.11 %	0-2-3-11 11.11 %	0-1-3-4 11.11 %	
TSC4-4B				TSC4-4A				TSC4-3				

Root candidates and weights

0-3-4-5	0-7-10-11	0-1-8-11	0-1-2-9	0-7-8-9	0-3-10-11	0-1-4-11	0-1-2-5	0-8-9-11	0-1-9-10	0-2-3-11	0-1-3-4	
5 [255.00] 0 [155.56] 3 [131.25] 4 [100.00] 8 [97.22] 10 [72.92] 1 [53.47] 9 [50.00] 2 [37.92] 11 [33.33] 6 [20.00] 7 [20.00]	0 [255.00] 7 [155.56] 10 [131.25] 11 [100.00] 3 [97.22] 5 [72.92] 8 [53.47] 9 [50.00] 11 [37.92] 6 [33.33] 1 [20.00] 2 [20.00]	1 [255.00] 8 [155.56] 11 [131.25] 0 [100.00] 4 [97.22] 6 [72.92] 9 [53.47] 5 [50.00] 10 [37.92] 7 [33.33] 2 [20.00] 3 [20.00]	2 [255.00] 9 [155.56] 0 [131.25] 1 [100.00] 5 [97.22] 7 [72.92] 10 [53.47] 6 [50.00] 11 [37.92] 3 [33.33] 8 [20.00] 4 [20.00]	0 [175.00] 8 [155.56] 5 [143.75] 9 [140.00] 7 [131.25] 2 [81.67] 1 [50.00] 10 [37.92] 3 [33.33] 4 [33.33] 11 [20.00] 6 [12.50]	3 [175.00] 11 [155.56] 8 [143.75] 0 [140.00] 10 [131.25] 5 [81.67] 4 [50.00] 1 [37.92] 6 [33.33] 7 [33.33] 2 [20.00] 9 [12.50]	4 [175.00] 0 [155.56] 9 [143.75] 1 [140.00] 11 [131.25] 6 [81.67] 5 [50.00] 2 [37.92] 7 [33.33] 8 [33.33] 3 [20.00] 10 [12.50]	5 [175.00] 1 [155.56] 10 [143.75] 2 [140.00] 0 [131.25] 7 [81.67] 6 [50.00] 3 [37.92] 8 [33.33] 9 [33.33] 4 [20.00] 11 [12.50]	8 [155.56] 11 [140.00] 9 [131.25] 0 [100.00] 4 [97.22] 5 [97.22] 1 [81.67] 2 [81.67] 7 [81.67] 10 [53.47] 11 [37.92] 6 [37.92] 12.50	9 [155.56] 0 [140.00] 10 [131.25] 1 [100.00] 5 [97.22] 6 [97.22] 2 [81.67] 3 [81.67] 8 [81.67] 11 [53.47] 11 [37.92] 7 [37.92] 12.50	11 [155.56] 2 [140.00] 0 [131.25] 3 [100.00] 7 [97.22] 8 [97.22] 4 [81.67] 5 [81.67] 10 [53.47] 1 [37.92] 9 [37.92] 12.50	0 [155.56] 3 [140.00] 1 [131.25] 4 [100.00] 8 [97.22] 9 [97.22] 5 [81.67] 6 [81.67] 11 [53.47] 2 [37.92] 10 [37.92] 12.50	
TSC4-4B									TSC4-4A			TSC4-3

Root candidates and weights

Names

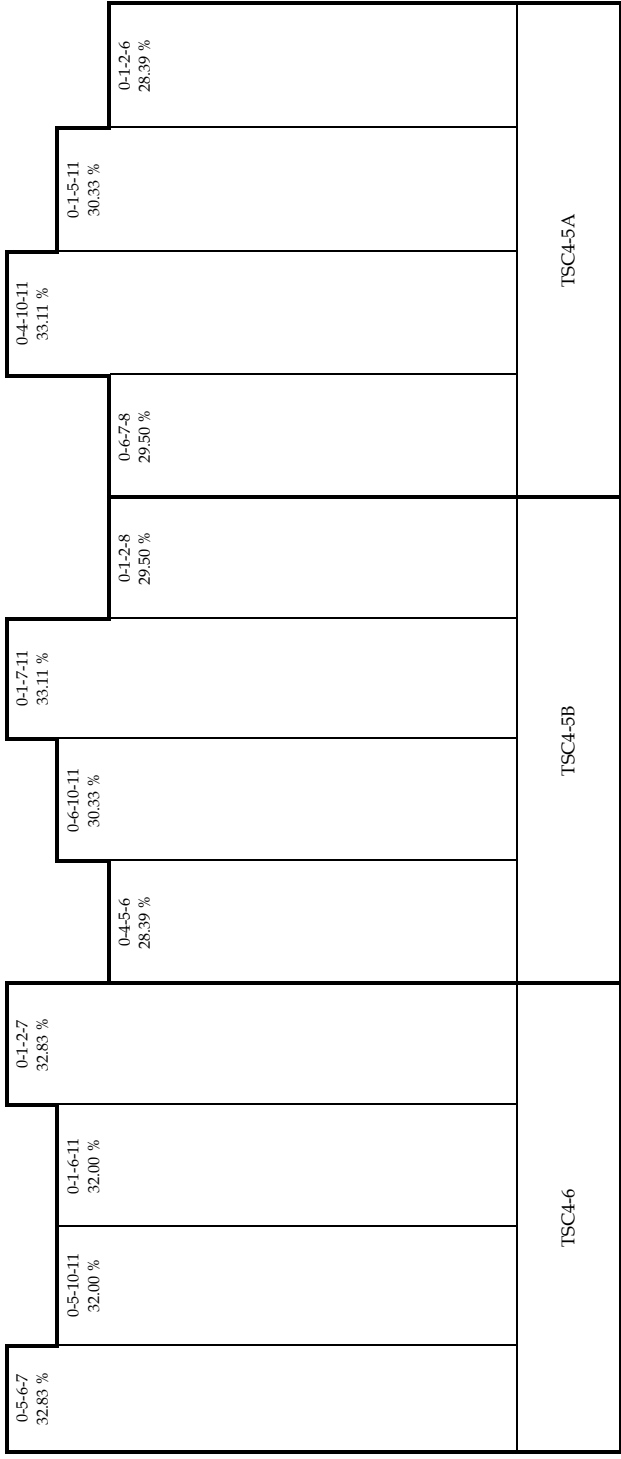
0-1-3-4 0-1-3-4 tetrachord	0-2-3-11 0-2-3-11 tetrachord	0-1-9-10 0-1-9-10 tetrachord	0-8-9-11 0-8-9-11 tetrachord	TSC4-3		
0-1-2-5 0-1-2-5 tetrachord	0-1-4-11 0-1-4-11 tetrachord	0-3-10-11 0-3-10-11 tetrachord	0-7-8-9 0-7-8-9 tetrachord		TSC4-4A	
0-1-2-9 0-1-2-9 tetrachord	0-1-8-11 0-1-8-11 tetrachord	0-7-10-11 0-7-10-11 tetrachord	0-3-4-5 0-3-4-5 tetrachord			TSC4-4B

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-5-6-7	0-5-10-11	0-1-6-11	0-1-2-7	0-4-5-6	0-6-10-11	0-1-7-11	0-1-2-8	0-6-7-8	0-4-10-11	0-1-5-11	0-1-2-6
7 [162.50]	0 [162.50]	1 [162.50]	2 [162.50]	4 [153.33]	10 [153.33]	11 [153.33]	0 [153.33]	7 [150.00]	11 [150.00]	0 [150.00]	1 [150.00]
0 [150.00]	5 [150.00]	6 [150.00]	7 [150.00]	0 [150.00]	6 [150.00]	7 [150.00]	8 [150.00]	0 [133.33]	4 [133.33]	5 [133.33]	6 [133.33]
5 [120.00]	10 [120.00]	11 [120.00]	0 [120.00]	6 [112.50]	0 [112.50]	1 [112.50]	2 [112.50]	6 [120.00]	10 [120.00]	11 [120.00]	0 [120.00]
6 [100.00]	11 [100.00]	0 [100.00]	1 [100.00]	5 [100.00]	11 [100.00]	0 [100.00]	1 [100.00]	8 [112.50]	0 [112.50]	1 [112.50]	2 [112.50]
2 [62.50]	7 [62.50]	8 [62.50]	9 [62.50]	7 [62.50]	1 [62.50]	2 [62.50]	3 [62.50]	10 [65.83]	2 [65.83]	3 [65.83]	4 [65.83]
4 [53.33]	3 [53.33]	4 [53.33]	5 [53.33]	10 [53.33]	4 [53.33]	5 [53.33]	6 [53.33]	2 [62.50]	6 [62.50]	7 [62.50]	8 [62.50]
10 [53.33]	9 [53.33]	10 [53.33]	11 [53.33]	1 [50.00]	5 [50.00]	6 [50.00]	7 [50.00]	4 [53.33]	8 [53.33]	9 [53.33]	10 [53.33]
1 [50.00]	6 [50.00]	7 [50.00]	8 [50.00]	11 [50.00]	7 [50.00]	8 [50.00]	9 [50.00]	1 [50.00]	5 [50.00]	6 [50.00]	7 [50.00]
9 [45.83]	2 [45.83]	3 [45.83]	4 [45.83]	8 [45.83]	8 [45.83]	3 [45.83]	4 [45.83]	3 [50.00]	7 [50.00]	8 [50.00]	9 [50.00]
11 [33.33]	4 [33.33]	5 [33.33]	6 [33.33]	9 [33.33]	3 [33.33]	4 [33.33]	5 [33.33]	11 [33.33]	3 [33.33]	4 [33.33]	5 [33.33]
3 [20.00]	8 [20.00]	9 [20.00]	10 [20.00]	2 [32.50]	8 [32.50]	9 [32.50]	10 [32.50]	5 [20.00]	9 [20.00]	10 [20.00]	11 [20.00]
8 [12.50]	1 [12.50]	2 [12.50]	3 [12.50]	3 [20.00]	9 [20.00]	10 [20.00]	11 [20.00]	9 [12.50]	1 [12.50]	2 [12.50]	3 [12.50]
TSC4-6											
TSC4-5B											
TSC4-5A											

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-5-6-7 39.29%	0-5-10-11 39.29%	0-1-6-11 39.29%	0-1-2-7 39.29%	0-4-5-6 12.50%	0-6-10-11 12.50%	0-1-7-11 12.50%	0-1-2-8 12.50%	0-6-7-8 31.43%	0-4-10-11 31.43%	0-1-5-11 31.43%	0-1-2-6 31.43%	TSC4-6	TSC4-5B	TSC4-5A

Root candidates and weights

0-5-6-7	0-5-10-11	0-1-6-11	0-1-2-7	0-4-5-6	0-6-10-11	0-1-7-11	0-1-2-8	0-6-7-8	0-4-10-11	0-1-5-11	0-1-2-6
5 [243.75] 0 [175.00] 7 [140.00] 6 [100.00] 10 [72.92] 2 [62.22] 8 [62.22] 3 [53.47] 11 [50.00] 1 [33.33] 9 [20.00] 4 [12.50]	10 [243.75] 5 [175.00] 0 [140.00] 11 [100.00] 3 [72.92] 1 [62.22] 7 [62.22] 8 [53.47] 4 [50.00] 6 [33.33] 2 [20.00] 9 [12.50]	11 [243.75] 6 [175.00] 1 [140.00] 0 [100.00] 4 [72.92] 2 [62.22] 8 [62.22] 9 [53.47] 5 [50.00] 7 [33.33] 3 [20.00] 10 [12.50]	0 [243.75] 7 [175.00] 2 [140.00] 1 [100.00] 5 [72.92] 3 [62.22] 9 [62.22] 10 [53.47] 6 [50.00] 8 [33.33] 4 [20.00] 11 [12.50]	5 [175.00] 0 [155.56] 6 [140.00] 4 [131.25] 2 [98.75] 10 [72.92] 8 [62.22] 9 [62.22] 11 [50.00] 5 [50.00] 7 [33.33] 1 [20.00] 3 [12.50]	11 [175.00] 6 [155.56] 0 [140.00] 10 [131.25] 8 [98.75] 4 [72.92] 2 [62.22] 3 [62.22] 5 [50.00] 7 [50.00] 1 [33.33] 9 [20.00] 10 [12.50]	0 [175.00] 7 [155.56] 1 [140.00] 11 [131.25] 9 [98.75] 5 [72.92] 3 [62.22] 4 [62.22] 5 [50.00] 6 [50.00] 8 [33.33] 2 [20.00] 10 [12.50]	1 [175.00] 8 [155.56] 2 [140.00] 0 [131.25] 10 [98.75] 6 [72.92] 4 [62.22] 5 [62.22] 7 [50.00] 9 [50.00] 3 [33.33] 11 [20.00] 11 [12.50]	8 [230.00] 0 [175.00] 6 [131.25] 7 [100.00] 5 [72.92] 2 [62.22] 4 [53.47] 1 [50.00] 11 [50.00] 10 [50.00] 3 [37.92] 9 [33.33] 9 [20.00]	0 [230.00] 4 [175.00] 10 [131.25] 11 [100.00] 9 [72.92] 6 [62.22] 8 [53.47] 3 [50.00] 5 [50.00] 7 [50.00] 2 [37.92] 7 [33.33] 1 [20.00]	1 [230.00] 5 [175.00] 11 [131.25] 0 [100.00] 10 [72.92] 7 [62.22] 9 [53.47] 4 [50.00] 6 [50.00] 3 [37.92] 8 [33.33] 2 [20.00]	2 [230.00] 6 [175.00] 0 [131.25] 1 [100.00] 11 [72.92] 8 [62.22] 10 [53.47] 5 [50.00] 7 [50.00] 4 [37.92] 9 [33.33] 3 [20.00]
TSC4-6			TSC4-5B			TSC4-5A					

Root candidates and weights

Names

0-1-2-6 0-1-2-6 tetrachord	0-1-5-11 0-1-5-11 tetrachord	0-4-10-11 0-4-10-11 tetrachord	0-6-7-8 0-6-7-8 tetrachord	TSC4-5A		
0-1-2-8 0-1-2-8 tetrachord	0-1-7-11 0-1-7-11 tetrachord	0-6-10-11 0-6-10-11 tetrachord	0-4-5-6 0-4-5-6 tetrachord		TSC4-5B	
0-1-2-7 Dream chord	0-1-6-11 0-1-6-11 tetrachord	0-5-10-11 0-5-10-11 tetrachord	0-5-6-7 0-5-6-7 tetrachord			TSC4-6

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-5-6-11 32.42 %	0-1-6-7 34.37 %	0-6-7-11 36.63 %	0-1-7-8 36.91 %	0-4-5-11 36.63 %	0-1-5-6 33.02 %	0-7-8-11 33.61 %	0-1-8-9 33.33 %	0-3-4-11 33.61 %	0-1-4-5 31.67 %
TSC49		TSC48			TSC47				

Spectral pitches and weights

0-5-6-11	0-1-6-7	0-6-7-11	0-1-7-8	0-4-5-11	0-1-5-6	0-7-8-11	0-1-8-9	0-3-4-11	0-1-4-5
0 [150.00]	1 [150.00]	6 [150.00]	7 [150.00]	0 [150.00]	0 [150.00]	7 [150.00]	8 [150.00]	11 [150.00]	0 [150.00]
6 [150.00]	7 [150.00]	7 [150.00]	8 [150.00]	11 [150.00]	1 [150.00]	0 [133.33]	0 [133.33]	3 [133.33]	4 [133.33]
5 [100.00]	0 [100.00]	11 [133.33]	0 [133.33]	4 [133.33]	5 [133.33]	11 [133.33]	1 [133.33]	4 [133.33]	5 [133.33]
11 [100.00]	6 [100.00]	0 [100.00]	1 [100.00]	5 [100.00]	6 [100.00]	8 [100.00]	9 [100.00]	0 [100.00]	1 [100.00]
1 [62.50]	2 [62.50]	1 [62.50]	2 [62.50]	6 [62.50]	7 [62.50]	3 [83.33]	4 [83.33]	7 [83.33]	8 [83.33]
7 [62.50]	8 [62.50]	2 [62.50]	3 [62.50]	7 [62.50]	8 [62.50]	6 [70.00]	7 [70.00]	10 [70.00]	11 [70.00]
3 [53.33]	4 [53.33]	4 [53.33]	5 [53.33]	3 [53.33]	4 [53.33]	2 [62.50]	3 [62.50]	6 [62.50]	7 [62.50]
4 [53.33]	5 [53.33]	10 [53.33]	11 [53.33]	9 [53.33]	10 [53.33]	4 [33.33]	5 [33.33]	8 [33.33]	9 [33.33]
9 [53.33]	10 [53.33]	3 [33.33]	4 [33.33]	8 [33.33]	9 [33.33]	9 [32.50]	10 [32.50]	1 [32.50]	2 [32.50]
10 [53.33]	11 [53.33]	9 [32.50]	10 [32.50]	2 [32.50]	3 [32.50]	10 [32.50]	11 [32.50]	2 [32.50]	3 [32.50]
2 [12.50]	3 [12.50]	5 [20.00]	6 [20.00]	10 [20.00]	11 [20.00]	5 [20.00]	6 [20.00]	9 [20.00]	10 [20.00]
8 [12.50]	9 [12.50]	8 [12.50]	9 [12.50]	1 [12.50]	2 [12.50]	1 [12.50]	2 [12.50]	5 [12.50]	6 [12.50]

TSC47

TSC48

TSC49

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-7-8-11 12.50 %	0-1-8-9 12.50 %	0-3-4-11 12.50 %	0-1-4-5 12.50 %						
				0-1-5-6 0 % 2 equal roots	0-4-5-11 0 % 2 equal roots	0-1-7-8 0 % 2 equal roots	0-6-7-11 0 % 2 equal roots	0-1-6-7 0 % 2 equal roots	0-5-6-11 0 % 2 equal roots
				TSC4-8			TSC4-9		
				TSC4-7					

Root candidates and weights

0-5-6-11	0-1-6-7	0-6-7-11	0-1-7-8	0-4-5-11	0-1-5-6	0-7-8-11	0-1-8-9	0-3-4-11	0-1-4-5
5 [175.00] 11	0 [175.00] 6	0 [175.00] 11	0 [175.00] 1	4 [175.00] 5	5 [175.00] 6	0 [175.00] 7	1 [175.00] 8	4 [175.00] 0	5 [175.00] 0
0 [175.00] 11	1 [175.00] 7	7 [175.00] 6	8 [175.00] 7	0 [175.00] 11	1 [175.00] 0	8 [175.00] 11	9 [175.00] 0	11 [175.00] 3	1 [175.00] 4
6 [100.00] 10	7 [100.00] 11	6 [100.00] 5	7 [100.00] 6	11 [100.00] 10	0 [100.00] 11	11 [100.00] 4	0 [100.00] 5	3 [100.00] 8	4 [100.00] 9
4 [72.92] 10	5 [72.92] 11	4 [72.92] 5	5 [72.92] 6	9 [72.92] 10	10 [72.92] 11	4 [72.92] 1	5 [72.92] 2	8 [72.92] 5	9 [72.92] 6
10 [72.92] 1	11 [72.92] 2	5 [72.92] 2	6 [72.92] 3	10 [72.92] 1	11 [72.92] 2	1 [72.92] 5	2 [72.92] 6	5 [72.92] 9	6 [72.92] 10
1 [62.22] 2	2 [62.22] 3	2 [62.22] 8	3 [62.22] 9	1 [62.22] 7	2 [62.22] 8	5 [62.22] 9	6 [62.22] 10	9 [62.22] 1	10 [62.22] 2
2 [62.22] 7	3 [62.22] 8	8 [62.22] 9	9 [62.22] 10	7 [62.22] 2	8 [62.22] 3	9 [62.22] 10	10 [62.22] 11	1 [62.22] 2	2 [62.22] 3
7 [62.22] 8	8 [62.22] 9	9 [62.22] 3	10 [62.22] 4	2 [62.22] 8	3 [62.22] 9	10 [62.22] 3	11 [62.22] 4	2 [62.22] 7	3 [62.22] 8
8 [62.22] 3	9 [62.22] 4	3 [62.22] 1	4 [62.22] 2	8 [62.22] 6	9 [62.22] 7	3 [62.22] 2	4 [62.22] 3	7 [62.22] 6	8 [62.22] 7
3 [12.50] 9	4 [12.50] 10	1 [20.00] 10	2 [20.00] 11	6 [20.00] 3	7 [20.00] 4	2 [20.00] 6	3 [20.00] 7	6 [20.00] 10	7 [20.00] 11
9 [12.50]	10 [12.50]	10 [12.50]	11 [12.50]	3 [12.50]	4 [12.50]	6 [12.50]	7 [12.50]	10 [12.50]	11 [12.50]
TSC4-9			TSC4-8			TSC4-7			

Root candidates and weights

Names

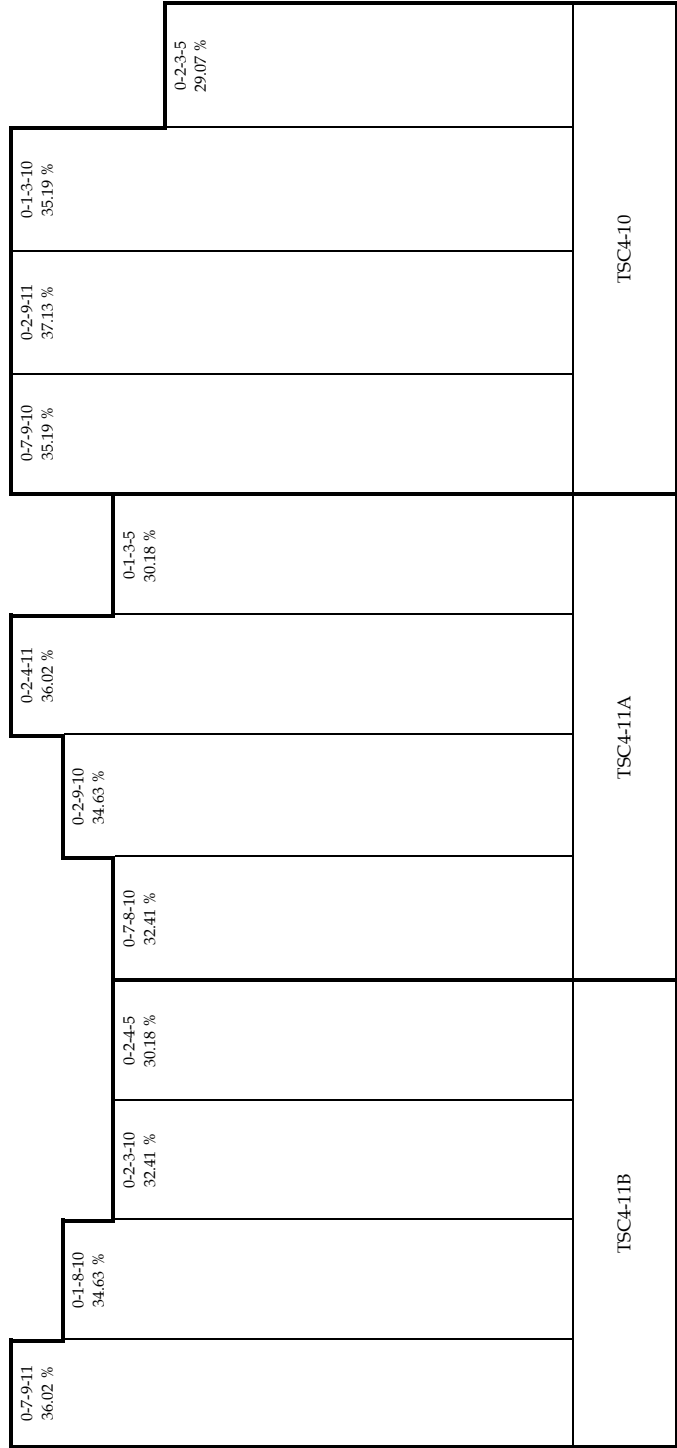
0-1-4-5 0-1-4-5 tetrachord	0-3-4-11 0-3-4-11 tetrachord	0-1-8-9 0-1-8-9 tetrachord	0-7-8-11 0-7-8-11 tetrachord	0-1-5-6 0-1-5-6 tetrachord	0-4-5-11 0-4-5-11 tetrachord	0-1-7-8 0-1-7-8 tetrachord	0-6-7-11 0-6-7-11 tetrachord	0-1-6-7 Messiaen's Truncated Mode 5 scale	0-5-6-11 Messiaen's Truncated Mode 5 Inverse scale	TSC4-7	TSC4-8	TSC4-9
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Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-7-9-11	0-1-8-10	0-2-3-10	0-2-4-5	0-7-8-10	0-2-9-10	0-2-4-11	0-1-3-5	0-7-9-10	0-2-9-11	0-1-3-10	0-2-3-5						
7 [170.00] 11 [145.83] 9 [132.50] 0 [100.00] 4 [83.33] 2 [62.50] 6 [50.00] 1 [45.83] 3 [33.33] 5 [20.00] 10 [20.00]	8 [170.00] 0 [145.83] 10 [132.50] 1 [100.00] 5 [83.33] 3 [62.50] 7 [50.00] 2 [45.83] 4 [33.33] 6 [20.00] 11 [20.00]	10 [170.00] 2 [145.83] 0 [132.50] 3 [100.00] 7 [83.33] 5 [62.50] 9 [50.00] 4 [45.83] 6 [33.33] 1 [20.00] 8 [20.00]	0 [170.00] 4 [145.83] 2 [132.50] 5 [100.00] 9 [83.33] 7 [62.50] 11 [50.00] 6 [45.83] 8 [33.33] 3 [20.00] 10 [20.00]	7 [150.00] 0 [145.83] 10 [132.50] 8 [120.00] 2 [95.83] 5 [70.00] 3 [50.00] 4 [33.33] 11 [20.00] 6 [12.50]	9 [150.00] 2 [145.83] 0 [132.50] 10 [120.00] 4 [95.83] 7 [70.00] 5 [50.00] 1 [33.33] 6 [20.00] 11 [12.50]	11 [150.00] 4 [145.83] 2 [132.50] 0 [120.00] 6 [95.83] 9 [70.00] 7 [50.00] 3 [33.33] 8 [20.00] 10 [12.50]	0 [150.00] 5 [145.83] 3 [132.50] 1 [120.00] 7 [95.83] 10 [70.00] 8 [50.00] 4 [33.33] 9 [33.33] 11 [20.00] 2 [12.50]	7 [170.00] 10 [120.00] 0 [112.50] 9 [112.50] 2 [95.83] 4 [83.33] 5 [70.00] 11 [45.83] 1 [33.33] 8 [20.00] 11 [12.50]	9 [170.00] 0 [120.00] 2 [112.50] 11 [112.50] 4 [95.83] 6 [83.33] 7 [70.00] 1 [45.83] 3 [33.33] 10 [20.00]	10 [170.00] 1 [120.00] 0 [112.50] 3 [112.50] 5 [95.83] 7 [83.33] 8 [70.00] 2 [45.83] 4 [33.33] 11 [20.00]	0 [170.00] 3 [120.00] 2 [112.50] 5 [112.50] 7 [95.83] 9 [83.33] 10 [70.00] 4 [45.83] 6 [33.33] 1 [20.00]						
TSC4-11B						TSC4-11A						TSC4-10					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-7-9-11 10.06 %	0-1-8-10 10.06 %	0-2-3-10 10.06 %	0-2-4-5 10.06 %	0-7-8-10 16.57 %	0-2-9-10 16.57 %	0-2-4-11 16.57 %	0-1-3-5 16.57 %	0-7-9-10 77.39 %	0-2-9-11 77.39 %	0-1-3-10 77.39 %	0-2-3-5 77.39 %
TSC4-11B				TSC4-11A				TSC4-10			
Root clarity											

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

Root candidates and weights

0-7-9-11	0-1-8-10	0-2-3-10	0-2-4-5	0-7-8-10	0-2-9-10	0-2-4-11	0-1-3-5	0-7-9-10	0-2-9-11	0-1-3-10	0-2-3-5
7 [218.75] 9 [198.75] 0 [175.00] 5 [143.75] 11 [140.00] 2 [81.67] 4 [50.00] 3 [33.33] 8 [33.33] 1 [20.00] 10 [12.50]	8 [218.75] 10 [198.75] 1 [175.00] 6 [143.75] 0 [140.00] 3 [81.67] 5 [50.00] 4 [33.33] 9 [33.33] 2 [20.00] 11 [12.50]	10 [218.75] 0 [198.75] 3 [175.00] 8 [143.75] 2 [140.00] 5 [81.67] 7 [50.00] 6 [33.33] 11 [33.33] 4 [20.00] 1 [12.50]	0 [218.75] 2 [198.75] 5 [175.00] 10 [143.75] 4 [140.00] 7 [81.67] 9 [50.00] 1 [33.33] 8 [33.33] 6 [20.00] 3 [12.50]	0 [255.00] 8 [218.75] 10 [198.75] 7 [100.00] 3 [97.22] 5 [72.92] 6 [53.47] 1 [50.00] 4 [33.33] 2 [20.00] 9 [20.00]	2 [255.00] 10 [218.75] 0 [198.75] 9 [100.00] 5 [97.22] 7 [72.92] 8 [53.47] 3 [50.00] 6 [33.33] 4 [20.00] 11 [20.00]	4 [255.00] 0 [218.75] 2 [198.75] 11 [100.00] 7 [97.22] 9 [72.92] 10 [53.47] 5 [50.00] 8 [33.33] 1 [20.00] 6 [20.00]	5 [255.00] 1 [218.75] 3 [198.75] 0 [100.00] 8 [97.22] 10 [72.92] 11 [53.47] 6 [50.00] 9 [33.33] 2 [20.00] 7 [20.00]	0 [255.00] 5 [143.75] 9 [140.00] 7 [131.25] 10 [131.25] 3 [131.25] 2 [97.22] 8 [81.67] 5 [53.47] 6 [33.33] 11 [20.00]	2 [255.00] 7 [143.75] 11 [140.00] 0 [131.25] 9 [131.25] 5 [131.25] 4 [97.22] 10 [81.67] 10 [53.47] 8 [33.33] 1 [20.00]	3 [255.00] 8 [143.75] 0 [140.00] 1 [131.25] 10 [131.25] 6 [97.22] 5 [81.67] 11 [53.47] 9 [33.33] 2 [20.00]	5 [255.00] 10 [143.75] 2 [140.00] 0 [131.25] 3 [131.25] 8 [97.22] 7 [81.67] 1 [53.47] 11 [33.33] 4 [20.00]
TSC4-11B							TSC4-11A				TSC4-10

Root candidates and weights

Names

0-2-3-5 Prime number seventh A	0-1-3-10 0-1-3-10 tetrachord	0-2-9-11 0-2-9-11 tetrachord	0-7-9-10 0-7-9-10 tetrachord	TSC4-10	
0-1-3-5 Prime number seventh B	0-2-4-11 0-2-4-11 tetrachord	0-2-9-10 0-2-9-10 tetrachord	0-7-8-10 0-7-8-10 tetrachord		
0-2-4-5 tetrachord	0-2-3-10 Warao tetra tonic scale (Native South America)	0-1-8-10 0-1-8-10 tetrachord	0-7-9-11 0-7-9-11 tetrachord		TSC4-11A
0-2-3-10 Warao tetra tonic scale (Native South America)	0-1-8-10 0-1-8-10 tetrachord	0-7-9-11 0-7-9-11 tetrachord	0-2-4-5 tetrachord		
0-1-8-10 0-1-8-10 tetrachord	0-7-9-11 0-7-9-11 tetrachord	0-2-3-10 Warao tetra tonic scale (Native South America)	0-2-4-5 tetrachord	TSC4-11B	
0-7-9-11 0-7-9-11 tetrachord	0-1-8-10 0-1-8-10 tetrachord	0-2-3-10 Warao tetra tonic scale (Native South America)	0-2-4-5 tetrachord		

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-6-7-9 35.61 %	0-3-9-10 36.72 %	0-2-5-11 33.66 %	0-1-3-6 30.61 %	0-6-9-10 32.28 %	0-2-8-11 30.33 %	0-1-3-9 29.50 %	0-3-4-6 28.94 %	0-6-8-9 29.50 %	0-3-9-11 30.33 %	0-1-4-10 32.28 %	0-2-3-6 28.94 %
TSC4-13A			TSC4-12B			TSC4-12A			Similarity to the harmonic series		

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

Spectral pitches and weights

0-6-7-9	0-3-9-10	0-2-5-11	0-1-3-6	0-6-9-10	0-2-8-11	0-1-3-9	0-3-4-6	0-6-8-9	0-3-9-11	0-1-4-10	0-2-3-6
7 [170.00] 9 [112.50] 4 [103.33] 0 [100.00] 6 [100.00] 1 [83.33] 2 [62.50] 10 [53.33] 11 [45.83] 5 [20.00] 8 [12.50]	10 [170.00] 0 [112.50] 7 [103.33] 3 [100.00] 9 [100.00] 4 [83.33] 5 [62.50] 1 [53.33] 2 [45.83] 8 [20.00] 11 [12.50]	0 [170.00] 2 [112.50] 9 [103.33] 5 [100.00] 11 [100.00] 6 [83.33] 7 [62.50] 3 [53.33] 4 [45.83] 10 [20.00] 1 [12.50]	1 [170.00] 3 [112.50] 10 [103.33] 0 [100.00] 6 [100.00] 7 [83.33] 8 [62.50] 4 [53.33] 5 [45.83] 11 [20.00] 2 [12.50]	10 [153.33] 0 [112.50] 4 [103.33] 6 [100.00] 9 [100.00] 1 [83.33] 7 [70.00] 5 [50.00] 2 [45.83] 8 [32.50] 11 [12.50]	0 [153.33] 2 [112.50] 6 [103.33] 8 [100.00] 11 [100.00] 3 [83.33] 9 [70.00] 7 [50.00] 4 [45.83] 10 [32.50] 1 [12.50]	1 [153.33] 3 [112.50] 7 [103.33] 0 [100.00] 9 [100.00] 4 [83.33] 10 [70.00] 8 [50.00] 5 [45.83] 11 [32.50] 2 [12.50]	4 [153.33] 6 [112.50] 10 [103.33] 0 [100.00] 3 [100.00] 7 [83.33] 1 [70.00] 11 [50.00] 8 [45.83] 5 [32.50] 2 [12.50]	0 [133.33] 6 [120.00] 8 [112.50] 4 [103.33] 9 [100.00] 1 [83.33] 7 [70.00] 10 [65.83] 3 [50.00] 11 [42.50] 6 [32.50] 5 [12.50]	3 [133.33] 9 [120.00] 11 [112.50] 7 [103.33] 0 [100.00] 4 [83.33] 10 [70.00] 1 [65.83] 6 [50.00] 2 [42.50] 5 [32.50] 11 [12.50]	4 [133.33] 10 [120.00] 0 [112.50] 8 [103.33] 1 [100.00] 5 [83.33] 11 [70.00] 2 [65.83] 7 [50.00] 3 [42.50] 6 [32.50] 5 [12.50]	6 [133.33] 0 [120.00] 2 [112.50] 10 [103.33] 3 [100.00] 7 [83.33] 1 [70.00] 4 [65.83] 9 [50.00] 5 [42.50] 8 [32.50] 11 [12.50]
TSC4-12B						TSC4-12A					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-6-7-9 12.90 %	0-3-9-10 12.90 %	0-2-5-11 12.90 %	0-1-3-6 12.90 %					0-6-8-9 48.39 %	0-3-9-11 48.39 %	0-1-4-10 48.39 %	0-2-3-6 48.39 %
				0-6-9-10 0.36 %	0-2-8-11 0.36 %	0-1-3-9 0.36 %	0-3-4-6 0.36 %				
TSC4-13A				TSC4-12B				TSC4-12A			

Root candidates and weights

0-6-7-9	0-3-9-10	0-2-5-11	0-1-3-6	0-6-9-10	0-2-8-11	0-1-3-9	0-3-4-6	0-6-8-9	0-3-9-11	0-1-4-10	0-2-3-6						
0 175.00 2 155.00 5 143.75 9 140.00 7 131.25 6 100.00 11 81.67 8 62.22 33.33 4 12.50 10 12.50	3 175.00 5 155.00 8 143.75 0 140.00 10 131.25 9 100.00 2 81.67 11 62.22 6 33.33 1 12.50 7 12.50	5 175.00 7 155.00 10 143.75 2 140.00 0 131.25 11 100.00 4 81.67 1 62.22 8 33.33 3 12.50 9 12.50	6 175.00 8 155.00 11 143.75 3 140.00 1 131.25 0 100.00 5 81.67 2 62.22 9 33.33 4 12.50 10 12.50	6 155.56 2 155.00 0 140.00 10 131.25 9 100.00 8 98.75 5 97.22 11 81.67 11 62.22 3 50.00 4 12.50 7 12.50	8 155.56 4 155.00 2 140.00 0 131.25 11 100.00 10 98.75 7 97.22 1 81.67 5 50.00 6 12.50 9 12.50	9 155.56 5 155.00 3 140.00 1 131.25 0 100.00 11 98.75 8 97.22 2 81.67 2 50.00 7 12.50 10 12.50	0 155.56 8 155.00 6 140.00 4 131.25 3 100.00 2 98.75 11 97.22 5 81.67 5 50.00 1 12.50 10 12.50	8 230.00 2 155.00 6 131.25 0 100.00 9 100.00 5 97.22 11 81.67 4 53.47 1 50.00 10 37.92 7 12.50	11 230.00 5 155.00 9 131.25 0 100.00 3 100.00 8 97.22 2 81.67 7 53.47 4 50.00 1 37.92 10 12.50	0 230.00 6 155.00 10 131.25 1 100.00 4 100.00 9 97.22 3 81.67 8 53.47 5 50.00 2 37.92 11 12.50	2 230.00 8 155.00 0 131.25 3 100.00 6 100.00 11 97.22 5 81.67 10 53.47 7 50.00 4 37.92 1 12.50						
TSC4-13A						TSC4-12B						TSC4-12A					

Root candidates and weights

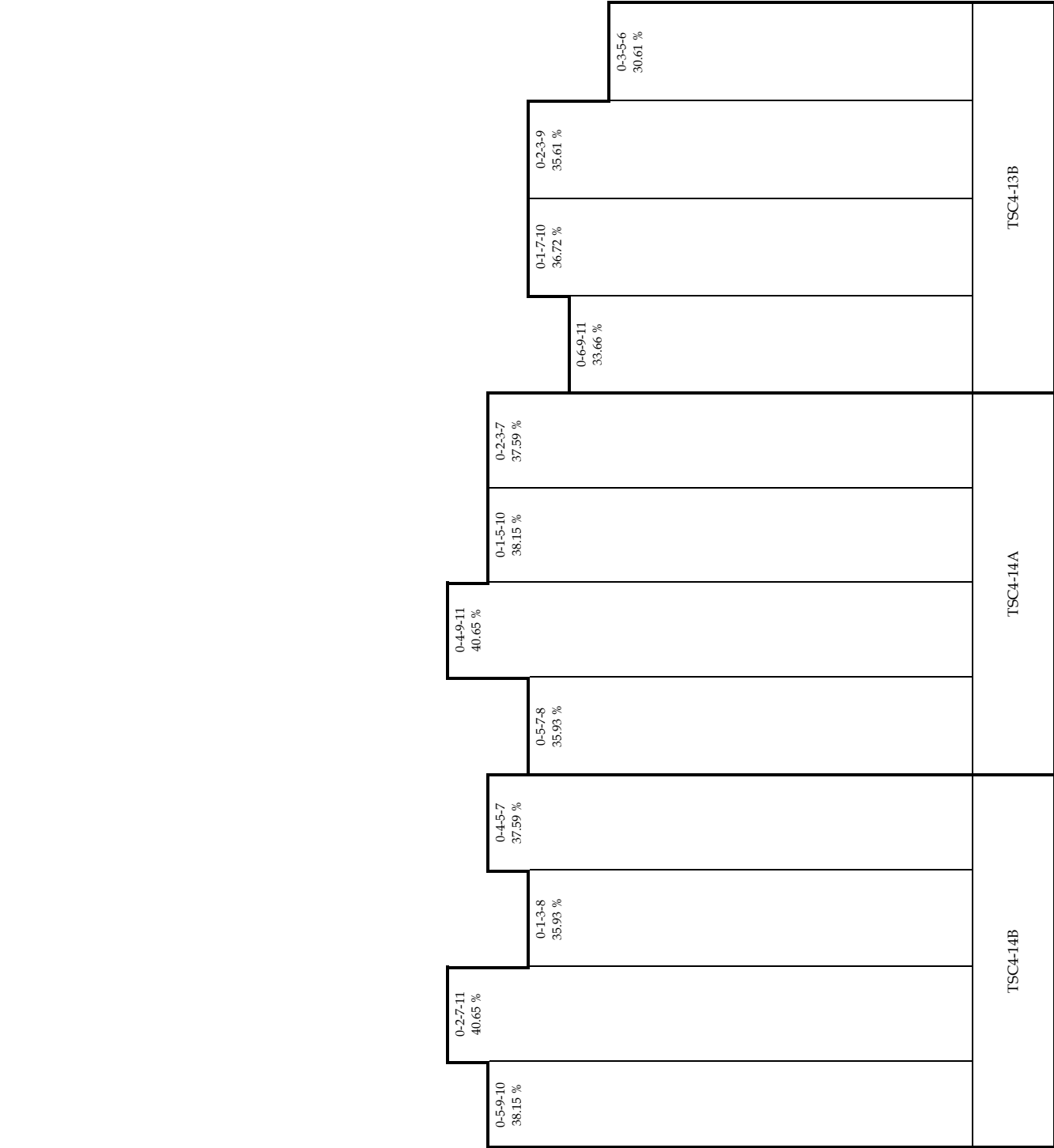
Names

0-2-3-6 0-2-3-6 tetrachord	0-1-4-10 0-1-4-10 tetrachord	0-3-9-11 0-3-9-11 tetrachord	0-6-8-9 0-6-8-9 tetrachord	TSC4-12A		
0-3-4-6 0-3-4-6 tetrachord	0-1-3-9 0-1-3-9 tetrachord	0-2-8-11 0-2-8-11 tetrachord	0-6-9-10 0-6-9-10 tetrachord		TSC4-12B	
0-1-3-6 0-1-3-6 tetrachord	0-2-5-11 0-2-5-11 tetrachord	0-3-9-10 0-3-9-10 tetrachord	0-6-7-9 0-6-7-9 tetrachord			TSC4-13A

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

Spectral pitches and weights

0-5-9-10	0-2-7-11	0-1-3-8	0-4-5-7	0-5-7-8	0-4-9-11	0-1-5-10	0-2-3-7	0-6-9-11	0-1-7-10	0-2-3-9	0-3-5-6		
0 [162.50] 5 [150.00] 9 [133.33] 10 [120.00] 4 [83.33] 7 [82.50] 2 [45.83] 1 [33.33] 3 [20.00] 8 [20.00] 11 [12.50]	2 [162.50] 7 [150.00] 11 [133.33] 0 [120.00] 6 [83.33] 9 [82.50] 4 [45.83] 3 [33.33] 5 [20.00] 10 [20.00] 1 [20.00] 11 [12.50]	3 [162.50] 8 [150.00] 0 [133.33] 1 [120.00] 7 [83.33] 10 [82.50] 5 [45.83] 4 [33.33] 6 [20.00] 11 [20.00] 2 [12.50]	7 [162.50] 0 [150.00] 4 [133.33] 5 [120.00] 11 [83.33] 2 [82.50] 9 [45.83] 8 [33.33] 3 [20.00] 10 [20.00] 6 [12.50]	0 [183.33] 7 [162.50] 5 [120.00] 3 [100.00] 10 [70.00] 2 [62.50] 9 [45.83] 4 [33.33] 11 [32.50] 6 [20.00]	4 [183.33] 11 [162.50] 9 [120.00] 0 [100.00] 7 [70.00] 6 [62.50] 1 [45.83] 3 [33.33] 8 [33.33] 2 [32.50] 10 [20.00]	5 [183.33] 0 [162.50] 10 [120.00] 1 [100.00] 8 [70.00] 7 [62.50] 2 [45.83] 4 [33.33] 9 [33.33] 3 [32.50] 11 [20.00]	7 [183.33] 2 [162.50] 0 [120.00] 3 [100.00] 10 [70.00] 9 [62.50] 4 [45.83] 6 [33.33] 11 [33.33] 5 [32.50] 1 [20.00]	6 [150.00] 9 [120.00] 11 [112.50] 4 [103.33] 0 [100.00] 1 [95.83] 7 [70.00] 10 [53.33] 3 [33.33] 2 [12.50] 8 [12.50]	7 [150.00] 10 [120.00] 0 [112.50] 5 [103.33] 1 [100.00] 2 [95.83] 8 [70.00] 11 [53.33] 4 [33.33] 3 [12.50] 9 [12.50]	9 [150.00] 0 [120.00] 2 [112.50] 7 [103.33] 3 [100.00] 4 [95.83] 10 [70.00] 1 [53.33] 6 [33.33] 5 [12.50] 11 [12.50]	0 [150.00] 3 [120.00] 5 [112.50] 10 [103.33] 6 [100.00] 7 [95.83] 1 [70.00] 4 [53.33] 9 [33.33] 2 [12.50] 8 [12.50]		
TSC4-14B						TSC4-14A						TSC4-13B	

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-5-9-10 12.82 %	0-2-7-11 12.82 %	0-1-3-8 12.82 %	0-4-5-7 12.82 %												
0-5-7-8 39.29 %				0-4-9-11 39.29 %	0-1-5-10 39.29 %	0-2-3-7 39.29 %									
0-6-9-11 64.52 %							0-1-7-10 64.52 %	0-2-3-9 64.52 %	0-3-5-6 64.52 %						
												TSC4-14B	TSC4-14A	TSC4-13B	Root clarity

Root candidates and weights

0-5-9-10	0-2-7-11	0-1-3-8	0-4-5-7	0-5-7-8	0-4-9-11	0-1-5-10	0-2-3-7	0-6-9-11	0-1-7-10	0-2-3-9	0-3-5-6	
5 [275.00] 10	7 [275.00] 0	8 [275.00] 1	0 [275.00] 5	5 [243.75] 0	9 [243.75] 4	10 [243.75] 5	0 [243.75] 7	11 [255.00] 2	0 [255.00] 3	2 [255.00] 5	5 [255.00] 8	
0 [243.75] 9	2 [243.75] 11	3 [140.00] 0	7 [140.00] 4	8 [175.00] 8	0 [175.00] 11	1 [155.56] 0	3 [155.56] 2	9 [131.25] 0	10 [131.25] 1	0 [131.25] 3	3 [131.25] 0	
2 [100.00] 8	4 [100.00] 5	5 [100.00] 6	9 [100.00] 10	10 [140.00] 1	2 [140.00] 11	3 [140.00] 6	5 [140.00] 8	6 [100.00] 5	7 [100.00] 6	9 [100.00] 8	6 [100.00] 11	
8 [81.67] 3	10 [81.67] 5	6 [72.92] 11	10 [72.92] 3	1 [97.22] 3	5 [97.22] 7	6 [97.22] 8	8 [97.22] 10	4 [97.22] 8	5 [97.22] 9	7 [97.22] 11	10 [97.22] 2	
8 [53.47] 7	10 [53.47] 9	11 [53.47] 10	3 [53.47] 2	4 [53.47] 4	7 [53.47] 8	8 [53.47] 9	11 [53.47] 11	8 [72.92] 8	9 [72.92] 9	11 [72.92] 11	2 [72.92] 2	
1 [37.92] 3	3 [37.92] 3	4 [37.92] 4	1 [37.92] 1	2 [33.33] 2	1 [33.33] 1	2 [33.33] 2	4 [33.33] 4	7 [62.22] 7	8 [62.22] 8	10 [62.22] 10	1 [62.22] 1	
6 [33.33] 11	8 [33.33] 8	9 [33.33] 9	8 [33.33] 6	9 [20.00] 9	6 [20.00] 10	7 [20.00] 11	9 [20.00] 1	1 [20.00] 10	2 [20.00] 11	4 [20.00] 4	7 [20.00] 4	
11 [20.00]	1 [20.00]	2 [20.00]	6 [20.00]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	12.50 [12.50]	
TSC4-14B						TSC4-14A						TSC4-13B

Root candidates and weights

Names

0-3-5-6 0-3-5-6 tetrachord	0-2-3-9 0-2-3-9 tetrachord	0-1-7-10 Mistuned Historical Church Bell 7	0-6-9-11 0-6-9-11 tetrachord	TSC4-13B		
0-2-3-7 Minor add 2 tetrachord	0-1-5-10 First inversion minor add 2 tetrachord	0-4-9-11 Second inversion minor add 2 tetrachord	0-5-7-8 Third inversion minor add 2 tetrachord		TSC4-14A	
0-4-5-7 Major add 4 tetrachord	0-1-3-8 First inversion major add 4 tetrachord	0-2-7-11 Second inversion major add 4 tetrachord	0-5-9-10 Third inversion major add 4 tetrachord			TSC4-14B

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-5-6-10 35.61 %	0-2-7-8 35.61 %	0-4-6-11 38.11 %	0-1-5-7 37.28 %	0-6-8-11 30.89 %	0-1-7-9 35.05 %	0-3-4-10 35.61 %	0-2-5-6 31.72 %	0-6-7-10 35.61 %	0-2-8-9 35.05 %	0-3-5-11 30.89 %	0-1-4-6 31.72 %
TSC4-16A			TSC4-Z15B			TSC4-Z15A			Similarity to the harmonic series		

Spectral pitches and weights

0-5-6-10	0-2-7-8	0-4-6-11	0-1-5-7	0-6-8-11	0-1-7-9	0-3-4-10	0-2-5-6	0-6-7-10	0-2-8-9	0-3-5-11	0-1-4-6						
0 [162.50] 10 [153.33] 5 [150.00] 6 [100.00] 7 [62.50] 4 [53.33] 1 [50.00] 2 [45.83] 9 [33.33] 8 [32.50] 3 [20.00]	2 [162.50] 0 [153.33] 7 [150.00] 8 [100.00] 9 [62.50] 6 [53.33] 3 [50.00] 4 [45.83] 11 [33.33] 10 [32.50] 5 [20.00]	6 [162.50] 4 [153.33] 11 [150.00] 0 [100.00] 1 [62.50] 10 [53.33] 7 [50.00] 8 [45.83] 3 [33.33] 2 [32.50] 9 [20.00]	7 [162.50] 5 [153.33] 0 [150.00] 1 [100.00] 2 [62.50] 11 [53.33] 8 [50.00] 9 [45.83] 4 [33.33] 3 [32.50] 10 [20.00]	6 [170.00] 0 [133.33] 8 [112.50] 11 [100.00] 3 [83.33] 10 [65.83] 1 [62.50] 4 [53.33] 7 [50.00] 9 [45.83] 2 [33.33] 2 [20.00] 12.50	7 [170.00] 1 [133.33] 9 [112.50] 0 [100.00] 4 [83.33] 11 [65.83] 2 [62.50] 5 [53.33] 8 [50.00] 11 [45.83] 10 [33.33] 10 [20.00] 12.50	10 [170.00] 4 [133.33] 0 [112.50] 3 [100.00] 7 [83.33] 2 [65.83] 5 [62.50] 8 [53.33] 11 [50.00] 11 [45.83] 6 [33.33] 6 [20.00] 12.50	0 [170.00] 6 [133.33] 2 [112.50] 5 [100.00] 9 [83.33] 4 [65.83] 7 [62.50] 10 [53.33] 11 [50.00] 11 [45.83] 3 [33.33] 8 [20.00] 12.50	10 [153.33] 7 [150.00] 0 [112.50] 6 [100.00] 2 [95.83] 5 [70.00] 4 [53.33] 1 [50.00] 11 [33.33] 8 [32.50] 9 [20.00] 12.50	0 [153.33] 9 [150.00] 2 [112.50] 8 [100.00] 4 [95.83] 7 [70.00] 6 [53.33] 3 [50.00] 1 [33.33] 10 [32.50] 11 [20.00] 12.50	3 [153.33] 0 [150.00] 5 [112.50] 11 [100.00] 7 [95.83] 10 [70.00] 9 [53.33] 6 [50.00] 4 [33.33] 1 [32.50] 2 [20.00] 12.50	4 [153.33] 1 [150.00] 6 [112.50] 0 [100.00] 8 [95.83] 11 [70.00] 10 [53.33] 7 [50.00] 5 [33.33] 2 [32.50] 3 [20.00] 12.50						
TSC4-16A						TSC4-Z15B						TSC4-Z15A					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

	0-6-7-10 63.93 %			0-2-8-9 63.93 %			0-3-5-11 63.93 %			0-1-4-6 63.93 %				
	0-5-6-10 39.29 %			0-2-7-8 39.29 %			0-4-6-11 39.29 %			0-1-5-7 39.29 %				
	0-1-7-9 31.43 %			0-6-8-11 31.43 %			0-3-4-10 31.43 %			0-2-5-6 31.43 %				
										TSC4-Z15A				
									TSC4-16A			TSC4-Z15B		
Root clarity														

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

Root candidates and weights

0-5-6-10	0-2-7-8	0-4-6-11	0-1-5-7	0-6-8-11	0-1-7-9	0-3-4-10	0-2-5-6	0-6-7-10	0-2-8-9	0-3-5-11	0-1-4-6
10 [243.75] 5 [175.00] 6 [155.56] 0 [140.00] 8 [98.75] 3 [72.92] 2 [62.22] 11 [50.00] 1 [33.33] 7 [20.00] 4 [12.50]	0 [243.75] 7 [175.00] 8 [155.56] 2 [140.00] 10 [98.75] 5 [72.92] 4 [62.22] 1 [50.00] 3 [33.33] 9 [20.00] 6 [12.50]	4 [243.75] 11 [175.00] 0 [155.56] 6 [140.00] 2 [98.75] 9 [72.92] 8 [62.22] 5 [50.00] 7 [33.33] 1 [20.00] 10 [12.50]	5 [243.75] 0 [175.00] 1 [155.56] 7 [140.00] 3 [98.75] 10 [72.92] 9 [62.22] 6 [50.00] 8 [33.33] 2 [20.00] 11 [12.50]	8 [230.00] 11 [175.00] 4 [143.75] 6 [131.25] 0 [100.00] 1 [81.67] 2 [62.22] 5 [50.00] 10 [37.92] 7 [33.33] 9 [12.50]	9 [230.00] 0 [175.00] 5 [143.75] 7 [131.25] 1 [100.00] 2 [81.67] 3 [62.22] 6 [50.00] 11 [37.92] 8 [33.33] 10 [12.50]	0 [230.00] 3 [175.00] 8 [143.75] 10 [131.25] 4 [100.00] 5 [81.67] 6 [62.22] 9 [50.00] 2 [37.92] 11 [33.33] 1 [12.50]	2 [230.00] 5 [175.00] 10 [143.75] 0 [131.25] 6 [100.00] 7 [100.00] 8 [98.75] 11 [81.67] 4 [62.22] 9 [50.00] 3 [37.92] 1 [33.33] 10 [12.50]	0 [255.00] 6 [155.56] 10 [131.25] 7 [100.00] 8 [98.75] 3 [97.22] 5 [72.92] 2 [62.22] 11 [50.00] 4 [37.92] 9 [20.00] 4 [12.50]	2 [255.00] 8 [155.56] 0 [131.25] 9 [100.00] 10 [98.75] 5 [97.22] 7 [72.92] 4 [62.22] 1 [50.00] 11 [20.00] 6 [12.50]	5 [255.00] 11 [155.56] 3 [131.25] 0 [100.00] 1 [98.75] 8 [97.22] 10 [72.92] 7 [62.22] 4 [50.00] 2 [20.00] 9 [12.50]	6 [255.00] 0 [155.56] 4 [131.25] 1 [100.00] 2 [98.75] 9 [97.22] 11 [72.92] 8 [62.22] 5 [50.00] 3 [20.00] 10 [12.50]
TSC4-16A						TSC4-Z15B			TSC4-Z15A		

Root candidates and weights

Names

0-1-4-6 All-interval tetrachord A	0-3-5-11 0-3-5-11 tetrachord	0-2-8-9 0-2-8-9 tetrachord	0-6-7-10 0-6-7-10 tetrachord	TSC4-Z15A		
0-2-5-6 0-2-5-6 tetrachord	0-3-4-10 0-3-4-10 tetrachord	0-1-7-9 0-1-7-9 tetrachord	0-6-8-11 0-6-8-11 tetrachord		TSC4-Z15B	
0-1-5-7 0-1-5-7 tetrachord	0-4-6-11 Major seventh plus four tetrachord	0-2-7-8 0-2-7-8 tetrachord	0-5-6-10 0-5-6-10 tetrachord			TSC4-16A

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-5-6-9 35.79 %	0-1-4-7 36.35 %	0-5-8-9 35.56 %	0-3-8-11 32.50 %	0-1-4-9 35.56 %	0-3-4-7 37.78 %	0-5-7-11 38.11 %	0-1-6-8 35.61 %	0-4-5-10 35.61 %	0-2-6-7 37.28 %
0-3-8-9 34.13 %	0-3-6-11 32.74 %								
TSC4-18A			TSC4-17			TSC4-16B			

to 70%
to 67.5%
to 65%
to 62.5%
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to 57.5%
to 55%
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to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

Spectral pitches and weights

0-5-6-9	0-3-8-9	0-3-6-11	0-1-4-7	0-5-8-9	0-3-8-11	0-1-4-9	0-3-4-7	0-5-7-11	0-1-6-8	0-4-5-10	0-2-6-7
0 [150.00] 9 [133.33] 4 [103.33] 5 [100.00] 6 [100.00] 1 [83.33] 7 [82.50] 10 [53.33] 3 [20.00] 2 [12.50] 11 [12.50]	3 [150.00] 0 [133.33] 7 [103.33] 8 [100.00] 9 [100.00] 4 [83.33] 10 [82.50] 1 [70.00] 6 [33.33] 10 [20.00] 2 [12.50] 11 [12.50]	6 [150.00] 3 [133.33] 10 [103.33] 0 [100.00] 11 [100.00] 1 [100.00] 8 [83.33] 7 [82.50] 1 [70.00] 4 [53.33] 9 [20.00] 2 [12.50] 5 [12.50] 8 [12.50] 11 [12.50]	7 [150.00] 4 [133.33] 11 [103.33] 0 [100.00] 1 [100.00] 8 [83.33] 2 [82.50] 5 [70.00] 10 [53.33] 3 [20.00] 3 [12.50] 6 [12.50] 9 [12.50]	0 [183.33] 9 [133.33] 5 [100.00] 8 [100.00] 11 [100.00] 4 [83.33] 7 [82.50] 3 [70.00] 1 [33.33] 10 [32.50] 6 [20.00] 2 [12.50] 11 [12.50]	3 [183.33] 0 [133.33] 8 [100.00] 11 [100.00] 7 [83.33] 10 [82.50] 6 [70.00] 4 [33.33] 1 [32.50] 9 [20.00] 2 [12.50] 5 [12.50]	4 [183.33] 1 [133.33] 0 [100.00] 9 [100.00] 8 [83.33] 11 [82.50] 7 [70.00] 5 [33.33] 2 [32.50] 10 [20.00] 3 [12.50] 6 [12.50]	7 [183.33] 4 [133.33] 0 [100.00] 3 [100.00] 11 [83.33] 2 [82.50] 10 [70.00] 8 [33.33] 5 [32.50] 1 [20.00] 6 [12.50] 9 [12.50]	7 [162.50] 0 [150.00] 11 [133.33] 5 [120.00] 9 [65.83] 2 [62.50] 3 [53.33] 6 [50.00] 4 [33.33] 10 [20.00] 1 [12.50]	8 [162.50] 1 [150.00] 0 [133.33] 6 [120.00] 10 [65.83] 3 [62.50] 4 [53.33] 7 [50.00] 5 [33.33] 11 [20.00] 2 [12.50]	0 [162.50] 5 [150.00] 4 [133.33] 10 [120.00] 2 [65.83] 7 [62.50] 8 [53.33] 11 [50.00] 9 [33.33] 3 [20.00] 6 [12.50]	2 [162.50] 7 [150.00] 6 [133.33] 0 [120.00] 4 [65.83] 9 [62.50] 10 [53.33] 1 [50.00] 11 [33.33] 5 [20.00] 8 [12.50]
TSC4-17							TSC4-16B				
TSC4-18A											

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-5-6-9 77.42 %	0-3-8-9 77.42 %	0-3-6-11 77.42 %	0-1-4-7 77.42 %	0-5-8-9 76.79 %	0-3-8-11 76.79 %	0-1-4-9 76.79 %	0-3-4-7 76.79 %	0-5-7-11 5.98 %	0-1-6-8 5.98 %	0-4-5-10 5.98 %	0-2-6-7 5.98 %							
TSC4-18A								TSC4-17				TSC4-16B						

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

Root candidates and weights

0-5-6-9	0-3-8-9	0-3-6-11	0-1-4-7	0-5-8-9	0-3-8-11	0-1-4-9	0-3-4-7	0-5-7-11	0-1-6-8	0-4-5-10	0-2-6-7	
5 [275.00] 2 [155.00] 0 [100.00] 6 [100.00] 9 [100.00] 10 [100.00] 11 [81.67] 10 [72.92] 8 [62.22] 7 [37.92] 1 [33.33] 3 [12.50] 4 [12.50]	8 [275.00] 5 [155.56] 0 [100.00] 3 [100.00] 9 [100.00] 2 [97.22] 1 [81.67] 5 [72.92] 11 [62.22] 10 [53.47] 4 [50.00] 9 [37.92] 6 [33.33] 3 [20.00] 1 [12.50] 7 [12.50]	11 [275.00] 8 [155.00] 0 [100.00] 3 [100.00] 6 [100.00] 5 [81.67] 4 [72.92] 2 [62.22] 1 [37.92] 7 [33.33] 9 [33.33] 10 [12.50] 10 [12.50]	0 [275.00] 9 [155.56] 2 [123.75] 1 [100.00] 4 [100.00] 5 [97.22] 6 [81.67] 11 [37.92] 8 [33.33] 3 [20.00] 7 [12.50] 10 [12.50]	5 [275.00] 8 [155.56] 10 [123.75] 0 [100.00] 9 [100.00] 1 [97.22] 2 [81.67] 7 [37.92] 4 [33.33] 11 [20.00] 3 [12.50] 6 [12.50]	8 [275.00] 11 [155.56] 1 [123.75] 0 [100.00] 3 [100.00] 4 [100.00] 5 [97.22] 5 [81.67] 10 [37.92] 7 [33.33] 2 [20.00] 6 [12.50] 9 [12.50]	9 [275.00] 0 [155.56] 2 [123.75] 1 [100.00] 4 [100.00] 5 [97.22] 6 [81.67] 11 [37.92] 8 [33.33] 3 [20.00] 7 [12.50] 10 [12.50]	0 [275.00] 3 [155.56] 5 [123.75] 4 [100.00] 7 [100.00] 8 [97.22] 9 [81.67] 2 [37.92] 11 [33.33] 6 [20.00] 1 [12.50] 10 [12.50]	5 [243.75] 7 [230.00] 0 [175.00] 11 [100.00] 10 [72.92] 1 [62.22] 3 [53.47] 4 [50.00] 9 [37.92] 8 [33.33] 2 [20.00]	6 [243.75] 8 [230.00] 1 [175.00] 0 [100.00] 11 [72.92] 2 [62.22] 4 [53.47] 5 [50.00] 10 [37.92] 9 [33.33] 3 [20.00]	10 [243.75] 0 [230.00] 5 [175.00] 4 [100.00] 3 [72.92] 6 [62.22] 8 [53.47] 9 [50.00] 2 [37.92] 1 [33.33] 7 [20.00]	0 [243.75] 2 [230.00] 7 [175.00] 6 [100.00] 5 [72.92] 8 [62.22] 10 [53.47] 11 [50.00] 4 [37.92] 3 [33.33] 9 [20.00]	
TSC4-18A							TSC4-17					TSC4-16B

Root candidates and weights

Names

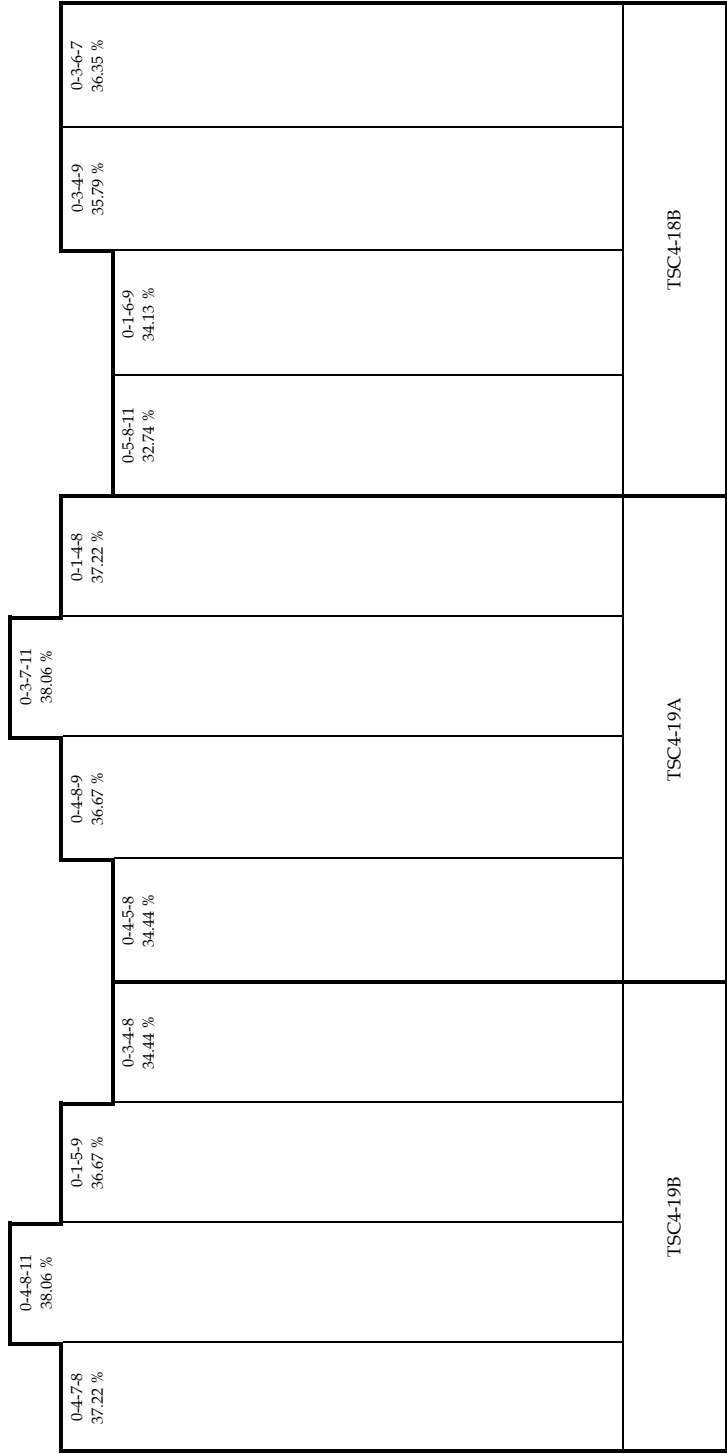
0-2-6-7 0-2-6-7 tetrachord	0-4-5-10 0-4-5-10 tetrachord	0-1-6-8 0-1-6-8 tetrachord	0-5-7-11 0-5-7-11 tetrachord	TSC4-16B		
0-3-4-7 Major- minor tetrachord	0-1-4-9 First inversion major- minor tetrachord	0-3-8-11 Second inversion major- minor tetrachord	0-5-8-9 Third inversion major- minor tetrachord		TSC4-17	
0-1-4-7 Diminished M7 chord	0-3-6-11 First inversion diminished M7 chord	0-3-8-9 Second inversion diminished M7 chord	0-5-6-9 Third inversion diminished M7 chord			TSC4-18A

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
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to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-4-7-8	0-4-8-11	0-1-5-9	0-3-4-8	0-4-5-8	0-4-8-9	0-3-7-11	0-1-4-8	0-5-8-11	0-1-6-9	0-3-4-9	0-3-6-7
7 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 11 [133.33]	11 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 3 [133.33]	0 [150.00] 1 [133.33] 5 [133.33] 9 [133.33] 4 [133.33]	3 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 7 [133.33]	0 [183.33] 4 [133.33] 8 [133.33] 5 [100.00] 3 [70.00]	4 [183.33] 0 [133.33] 8 [133.33] 9 [100.00] 7 [70.00]	7 [183.33] 3 [133.33] 11 [133.33] 0 [100.00] 10 [70.00]	8 [183.33] 0 [133.33] 4 [133.33] 1 [100.00] 11 [70.00]	0 [183.33] 3 [103.33] 5 [100.00] 8 [100.00] 11 [100.00]	1 [183.33] 4 [103.33] 0 [100.00] 6 [100.00] 9 [100.00]	4 [183.33] 7 [103.33] 0 [100.00] 3 [100.00] 9 [100.00]	7 [183.33] 10 [103.33] 0 [100.00] 3 [100.00] 6 [100.00]
0-4-7-8	0-4-8-11	0-1-5-9	0-3-4-8	0-4-5-8	0-4-8-9	0-3-7-11	0-1-4-8	0-5-8-11	0-1-6-9	0-3-4-9	0-3-6-7
7 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 11 [133.33]	11 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 3 [133.33]	0 [150.00] 1 [133.33] 5 [133.33] 9 [133.33] 4 [133.33]	3 [150.00] 0 [133.33] 4 [133.33] 8 [133.33] 7 [133.33]	0 [183.33] 4 [133.33] 8 [133.33] 5 [100.00] 3 [70.00]	4 [183.33] 0 [133.33] 8 [133.33] 9 [100.00] 7 [70.00]	7 [183.33] 3 [133.33] 11 [133.33] 0 [100.00] 10 [70.00]	8 [183.33] 0 [133.33] 4 [133.33] 1 [100.00] 11 [70.00]	0 [183.33] 3 [103.33] 5 [100.00] 8 [100.00] 11 [100.00]	1 [183.33] 4 [103.33] 0 [100.00] 6 [100.00] 9 [100.00]	4 [183.33] 7 [103.33] 0 [100.00] 3 [100.00] 9 [100.00]	7 [183.33] 10 [103.33] 0 [100.00] 3 [100.00] 6 [100.00]
TSC4-19B											
TSC4-19A											
TSC4-18B											

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-4-7-8 76.79 %	0-4-8-11 76.79 %	0-1-5-9 76.79 %	0-3-4-8 76.79 %	0-4-5-8 12.50 %	0-4-8-9 12.50 %	0-3-7-11 12.50 %	0-1-4-8 12.50 %	0-5-8-11 12.50 %	0-1-6-9 12.50 %	0-3-4-9 12.50 %	0-3-6-7 12.50 %				
				TSC4-19B				TSC4-19A				TSC4-18B			

Root candidates and weights

0-4-7-8 0 [275.00] 4 [155.56] 8 [155.56] 7 [100.00] 9 [81.67] 5 [72.92] 1 [50.00] 2 [37.92] 6 [37.92] 10 [37.92] 3 [33.33]	0-4-8-11 4 [275.00] 0 [155.56] 8 [155.56] 11 [100.00] 1 [81.67] 9 [72.92] 5 [50.00] 2 [37.92] 6 [37.92] 10 [37.92] 7 [33.33]	0-1-5-9 5 [275.00] 1 [155.56] 9 [155.56] 0 [100.00] 2 [81.67] 10 [72.92] 6 [50.00] 3 [37.92] 7 [37.92] 11 [37.92] 8 [33.33]	0-3-4-8 8 [275.00] 0 [155.56] 4 [155.56] 3 [100.00] 5 [81.67] 1 [72.92] 9 [50.00] 2 [37.92] 6 [37.92] 10 [37.92] 11 [33.33]	0-4-5-8 5 [175.00] 0 [155.56] 4 [155.56] 8 [155.56] 10 [123.75] 1 [97.22] 9 [50.00] 2 [37.92] 6 [37.92] 7 [37.92] 10 [20.00] 3 [12.50]	0-4-8-9 9 [175.00] 0 [155.56] 4 [155.56] 8 [155.56] 2 [123.75] 5 [123.75] 1 [97.22] 6 [50.00] 10 [37.92] 3 [37.92] 11 [20.00] 7 [12.50]	0-3-7-11 0 [175.00] 3 [155.56] 7 [155.56] 11 [155.56] 5 [123.75] 8 [123.75] 4 [97.22] 5 [50.00] 1 [37.92] 9 [37.92] 2 [20.00] 10 [12.50]	0-1-4-8 1 [175.00] 0 [155.56] 4 [155.56] 8 [155.56] 6 [155.56] 9 [123.75] 2 [97.22] 5 [50.00] 10 [37.92] 3 [37.92] 11 [20.00] 7 [12.50]	0-5-8-11 5 [175.00] 8 [155.56] 1 [155.00] 10 [123.75] 0 [123.75] 11 [100.00] 4 [100.00] 7 [97.22] 2 [62.22] 3 [20.00] 6 [12.50] 9 [12.50] 10 [12.50]	0-1-6-9 6 [175.00] 9 [155.56] 2 [155.00] 11 [123.75] 0 [100.00] 1 [100.00] 5 [100.00] 8 [97.22] 11 [62.22] 3 [20.00] 4 [12.50] 7 [12.50] 10 [12.50]	0-3-4-9 9 [175.00] 0 [155.56] 5 [155.00] 2 [123.75] 3 [100.00] 4 [100.00] 8 [97.22] 11 [62.22] 6 [20.00] 1 [12.50] 7 [12.50] 10 [12.50]	0-3-6-7 0 [175.00] 3 [155.56] 8 [155.00] 5 [123.75] 6 [100.00] 7 [100.00] 11 [97.22] 2 [62.22] 9 [20.00] 1 [12.50] 4 [12.50] 10 [12.50]
TSC4-19B			TSC4-19A			TSC4-18B					

Root candidates and weights

Names

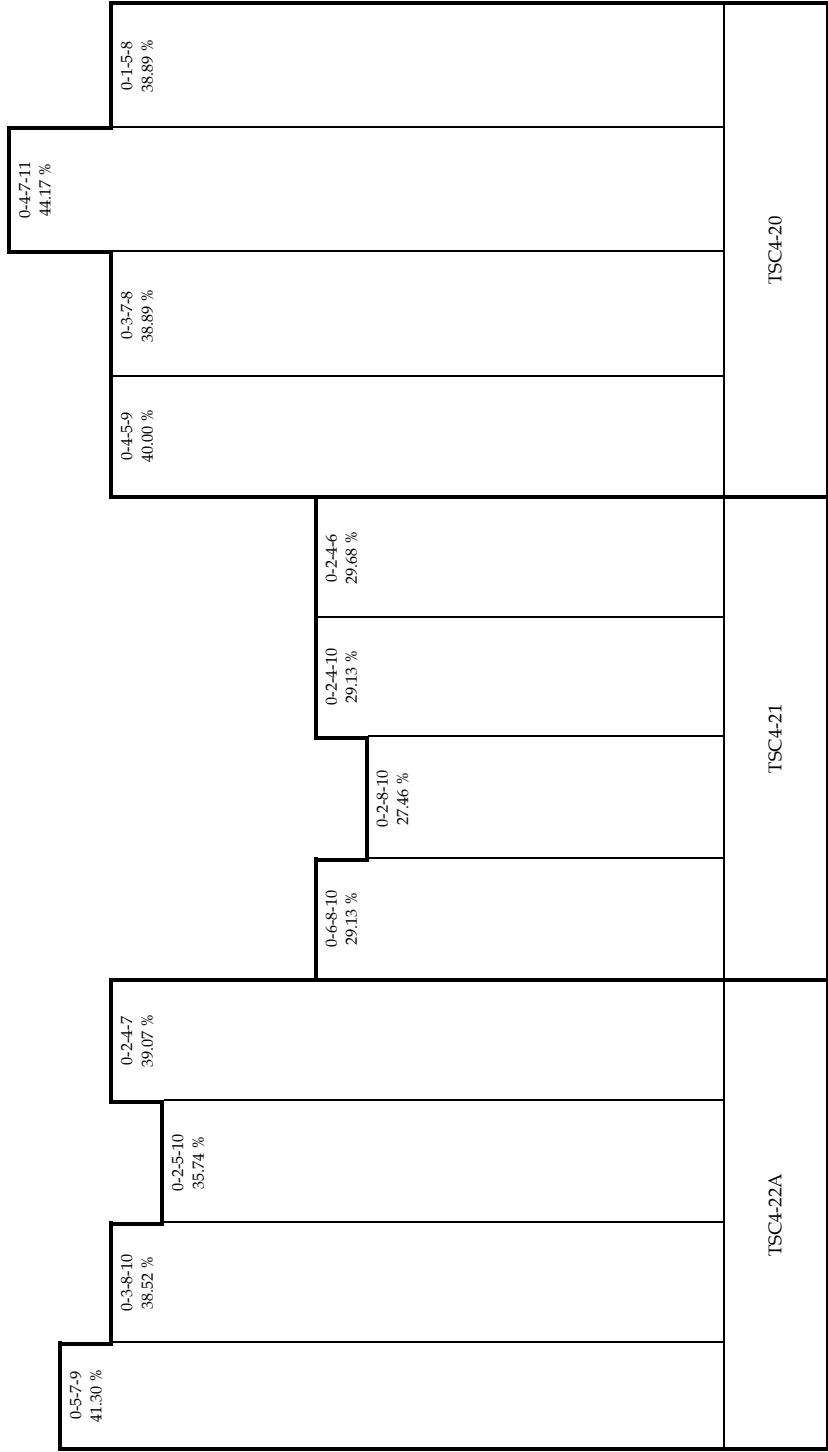
0-3-6-7 0-3-6-7 tetrachord	0-3-4-9 0-3-4-9 tetrachord	0-1-6-9 0-1-6-9 tetrachord	0-5-8-11 0-5-8-11 tetrachord	TSC4-18B	
0-1-4-8 Third inversion minor- major seventh	0-3-7-11 Minor- major seventh	0-4-8-9 First inversion minor- major seventh	0-4-5-8 Second inversion minor- major seventh		
0-3-4-8 0-3-4-8 tetrachord	0-1-5-9 0-1-5-9 tetrachord	0-4-8-11 Augmented major seventh	0-4-7-8 0-4-7-8 tetrachord		TSC4-19A
0-4-8-11 Augmented major seventh	0-1-5-9 0-1-5-9 tetrachord	0-3-4-8 0-3-4-8 tetrachord	0-4-7-8 0-4-7-8 tetrachord		

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
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to 22.5%
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to 17.5%
to 15%
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Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
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to 27.5%
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to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-5-7-9 7 [182.50] 0 [150.00] 9 [145.83] 5 [120.00] 4 [120.00] 83.33] 2 [62.50] 11 [45.83] 1 [33.33] 3 [20.00] 10 [20.00]	0-3-8-10 10 [182.50] 3 [150.00] 0 [145.83] 8 [120.00] 7 [120.00] [83.33] 5 [62.50] 2 [45.83] 4 [33.33] 1 [20.00] 6 [20.00]	0-2-5-10 0 [182.50] 5 [150.00] 2 [145.83] 10 [120.00] 9 [120.00] [83.33] 7 [62.50] 4 [45.83] 6 [33.33] 3 [20.00] 8 [20.00]	0-2-4-7 2 [182.50] 7 [150.00] 4 [145.83] 0 [120.00] 11 [120.00] [83.33] 9 [62.50] 6 [45.83] 8 [33.33] 5 [20.00] 10 [20.00]	0-6-8-10 10 [165.83] 0 [145.83] 8 [132.50] 6 [120.00] 4 [120.00] [53.33] 1 [50.00] 3 [50.00] 5 [50.00] 7 [50.00] 2 [45.83]	0-2-8-10 0 [165.83] 2 [145.83] 10 [132.50] 8 [120.00] 6 [120.00] [53.33] 3 [50.00] 5 [50.00] 7 [50.00] 9 [50.00] 4 [45.83]	0-2-4-10 2 [165.83] 4 [145.83] 0 [132.50] 10 [120.00] 8 [120.00] [53.33] 5 [50.00] 7 [50.00] 9 [50.00] 11 [50.00] 6 [45.83]	0-2-4-6 4 [165.83] 6 [145.83] 2 [132.50] 0 [120.00] 10 [120.00] [53.33] 1 [50.00] 7 [50.00] 9 [50.00] 11 [50.00] 8 [45.83]	0-4-5-9 4 [183.33] 0 [150.00] 9 [133.33] 5 [100.00] 7 [100.00] [82.50] 11 [62.50] 1 [33.33] 8 [33.33] 2 [32.50] 3 [20.00] 10 [20.00] 6 [20.00] 9 [12.50]	0-3-7-8 7 [183.33] 3 [150.00] 0 [133.33] 8 [100.00] 10 [100.00] [82.50] 2 [62.50] 4 [33.33] 11 [33.33] 5 [32.50] 1 [20.00] 6 [20.00] 9 [12.50]	0-4-7-11 11 [183.33] 7 [150.00] 4 [133.33] 0 [100.00] 2 [82.50] 6 [62.50] 3 [33.33] 8 [33.33] 9 [33.33] 10 [32.50] 5 [20.00] 10 [20.00] 1 [20.00] 1 [12.50]	0-1-5-8 0 [183.33] 8 [150.00] 5 [133.33] 1 [100.00] 3 [82.50] 7 [62.50] 4 [33.33] 9 [33.33] 10 [32.50] 6 [20.00] 11 [20.00] 2 [20.00] 2 [12.50]	TSC4-20
TSC4-21												
TSC4-22A												

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-5-7-9 97.06 %	0-3-8-10 97.06 %	0-2-5-10 97.06 %	0-2-4-7 97.06 %								
				0-6-8-10 51.62 %	0-2-8-10 51.62 %	0-2-4-10 51.62 %	0-2-4-6 51.62 %	0-4-5-9 57.14 %	0-3-7-8 57.14 %	0-4-7-11 57.14 %	0-1-5-8 57.14 %
TSC4-22A				TSC4-21				TSC4-20			

Root candidates and weights

0-5-7-9 [391.67] [198.75] [175.00] [140.00] [81.67] [72.92] [53.47] [33.33] [33.33] [20.00]	0-3-8-10 [391.67] [198.75] [175.00] [140.00] [81.67] [72.92] [53.47] [33.33] [33.33] [20.00]	0-2-5-10 [391.67] [198.75] [175.00] [140.00] [81.67] [72.92] [53.47] [33.33] [33.33] [20.00]	0-2-4-7 [391.67] [198.75] [175.00] [140.00] [81.67] [72.92] [53.47] [33.33] [33.33] [20.00]	0-6-8-10 [331.67] [218.75] [198.75] [140.00] [62.22] [53.47] [50.00] [50.00] [50.00] [50.00]	0-2-8-10 [331.67] [218.75] [198.75] [140.00] [62.22] [53.47] [50.00] [50.00] [50.00] [50.00]	0-2-4-10 [331.67] [218.75] [198.75] [140.00] [62.22] [53.47] [50.00] [50.00] [50.00] [50.00]	0-2-4-6 [331.67] [218.75] [198.75] [140.00] [62.22] [53.47] [50.00] [50.00] [50.00] [50.00]	0-4-5-9 [275.00] [175.00] [155.56] [123.75] [100.00] [72.92] [37.92] [33.33] [33.33] [20.00] [20.00] [12.50]	0-3-7-8 [275.00] [175.00] [155.56] [123.75] [100.00] [72.92] [37.92] [33.33] [33.33] [20.00] [20.00] [12.50]	0-4-7-11 [275.00] [175.00] [155.56] [123.75] [100.00] [72.92] [37.92] [33.33] [33.33] [20.00] [20.00] [12.50]	0-1-5-8 [275.00] [175.00] [155.56] [123.75] [100.00] [72.92] [37.92] [33.33] [33.33] [20.00] [20.00] [12.50]	
TSC4-22A									TSC4-21			TSC4-20

Root candidates and weights

Names

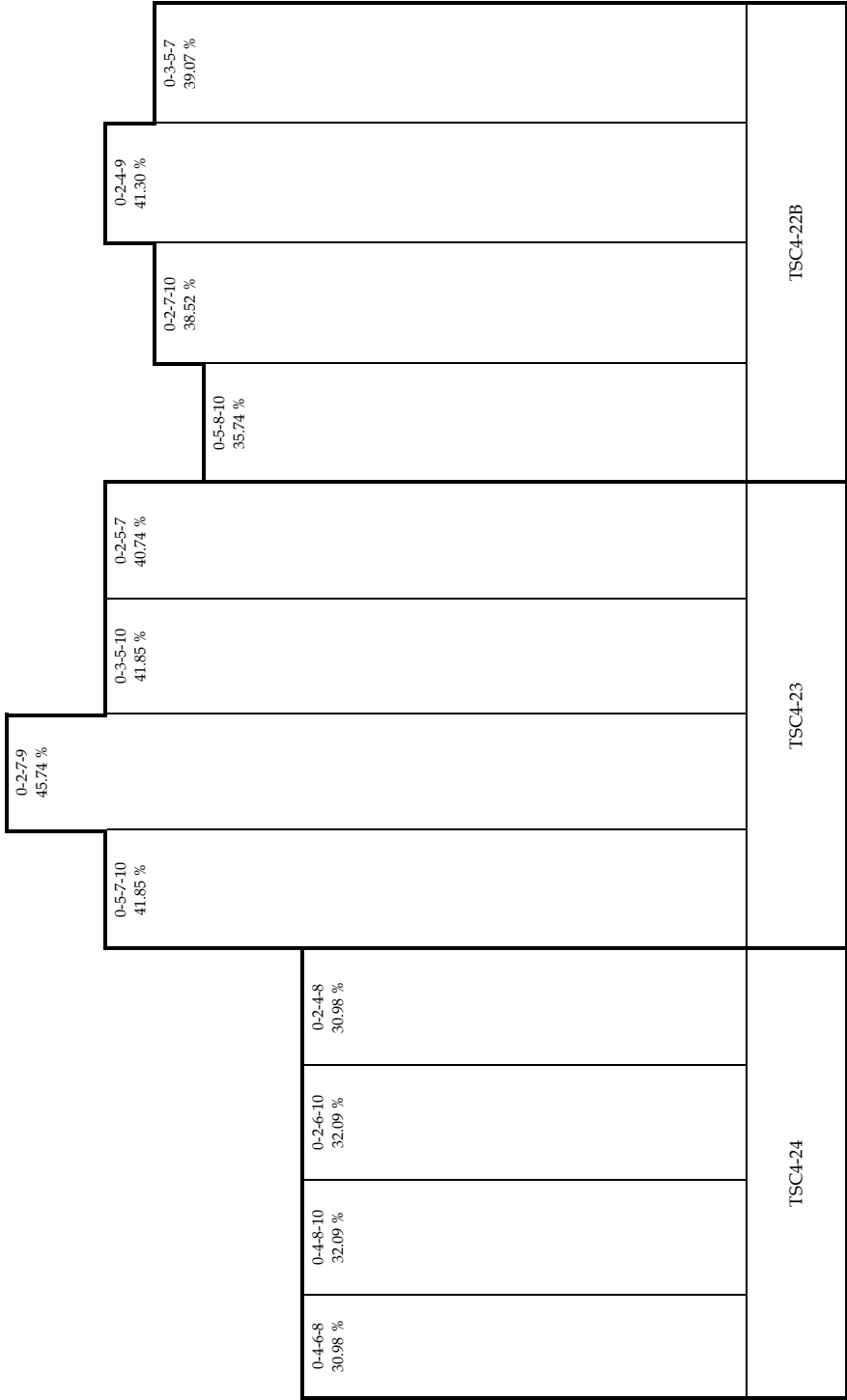
0-1-5-8 Third inversion major seventh tetrachord	0-4-7-11 Major seventh tetrachord	0-3-7-8 First inversion major seventh tetrachord	0-4-5-9 Second inversion major seventh tetrachord	TSC4-20	
0-2-4-6 0-2-4-6 tetrachord	0-2-4-10 0-2-4-10 tetrachord	0-2-8-10 0-2-8-10 tetrachord	0-6-8-10 0-6-8-10 tetrachord		
0-2-4-7 Major add 2 tetrachord Major add 9 tetrachord	0-2-5-10 First inversion major add 2 tetrachord	0-3-8-10 Second inversion major add 2 tetrachord	0-5-7-9 Third inversion major add 2 tetrachord		TSC4-21
TSC4-22A					

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-4-6-8 4 [153.33] 8 [145.83] 0 [133.33] 6 [132.50] 10 [65.83] 1 [50.00] 3 [50.00] 7 [50.00] 11 [50.00] 2 [32.50]	0-4-8-10 8 [153.33] 0 [145.83] 4 [133.33] 10 [132.50] 2 [65.83] 3 [50.00] 5 [50.00] 7 [50.00] 11 [50.00] 6 [32.50]	0-2-6-10 10 [153.33] 2 [145.83] 6 [133.33] 0 [132.50] 4 [65.83] 1 [50.00] 5 [50.00] 7 [50.00] 9 [50.00] 8 [32.50]	0-2-4-8 0 [153.33] 4 [145.83] 8 [133.33] 2 [132.50] 6 [65.83] 3 [50.00] 7 [50.00] 9 [50.00] 10 [32.50]	0-5-7-10 5 [170.00] 0 [162.50] 7 [162.50] 10 [120.00] 2 [95.83] 9 [45.83] 4 [33.33] 11 [33.33] 3 [20.00] 8 [20.00]	0-2-7-9 7 [170.00] 2 [162.50] 9 [162.50] 0 [120.00] 4 [95.83] 11 [45.83] 1 [33.33] 6 [33.33] 5 [20.00] 10 [20.00]	0-3-5-10 10 [170.00] 0 [162.50] 5 [162.50] 3 [120.00] 7 [95.83] 2 [45.83] 4 [33.33] 9 [33.33] 1 [20.00] 8 [20.00]	0-2-5-7 0 [170.00] 2 [162.50] 7 [162.50] 5 [120.00] 9 [95.83] 4 [45.83] 6 [33.33] 11 [33.33] 3 [20.00] 10 [20.00]	0-5-8-10 0 [195.83] 5 [150.00] 10 [132.50] 8 [120.00] 3 [70.00] 7 [62.50] 2 [45.83] 4 [33.33] 9 [33.33] 6 [20.00]	0-2-7-10 2 [195.83] 7 [150.00] 0 [132.50] 10 [120.00] 5 [70.00] 9 [62.50] 4 [45.83] 6 [33.33] 11 [33.33] 8 [20.00]	0-2-4-9 4 [195.83] 9 [150.00] 2 [132.50] 0 [120.00] 7 [70.00] 11 [62.50] 6 [45.83] 1 [33.33] 8 [33.33] 10 [20.00]	0-3-5-7 7 [195.83] 0 [150.00] 5 [132.50] 3 [120.00] 10 [70.00] 2 [62.50] 9 [45.83] 4 [33.33] 11 [33.33] 1 [20.00]
TSC4-24			TSC4-23			TSC4-22B					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-4-6-8 5.14 %	0-4-8-10 5.14 %	0-2-6-10 5.14 %	0-2-4-8 5.14 %	0-5-7-10 4.62 %	0-2-7-9 4.62 %	0-3-5-10 4.62 %	0-2-5-7 4.62 %	0-5-8-10 66.86 %	0-2-7-10 66.86 %	0-2-4-9 66.86 %	0-3-5-7 66.86 %	TSC4-24	TSC4-23	TSC4-22B	Root clarity

Root candidates and weights

0-4-6-8 8 [230.00] 4 [218.75] 6 [198.75] 0 [155.56] 2 [98.75] 1 [50.00] 5 [50.00] 9 [50.00] 11 [50.00] 10 [37.92]	0-4-8-10 0 [230.00] 8 [218.75] 10 [198.75] 4 [155.56] 6 [98.75] 1 [50.00] 3 [50.00] 5 [50.00] 5 [50.00] 9 [50.00] 2 [37.92]	0-2-6-10 2 [230.00] 10 [218.75] 0 [198.75] 6 [155.56] 8 [98.75] 3 [50.00] 5 [50.00] 7 [50.00] 11 [50.00] 4 [37.92]	0-2-4-8 4 [230.00] 0 [218.75] 2 [198.75] 8 [155.56] 10 [98.75] 1 [50.00] 5 [50.00] 7 [50.00] 9 [50.00] 6 [37.92]	0-5-7-10 0 [255.00] 5 [243.75] 10 [243.75] 3 [143.75] 7 [140.00] 8 [53.47] 1 [33.33] 6 [33.33] 2 [20.00] 9 [20.00]	0-2-7-9 2 [255.00] 0 [243.75] 7 [243.75] 5 [143.75] 9 [140.00] 10 [53.47] 3 [33.33] 8 [33.33] 4 [20.00] 11 [20.00]	0-3-5-10 5 [255.00] 3 [243.75] 10 [243.75] 8 [143.75] 0 [140.00] 1 [53.47] 6 [33.33] 11 [33.33] 2 [20.00] 7 [20.00]	0-2-5-7 7 [255.00] 0 [243.75] 5 [243.75] 10 [143.75] 2 [140.00] 3 [53.47] 1 [33.33] 8 [33.33] 4 [20.00] 9 [20.00]	0-5-8-10 10 [365.00] 8 [218.75] 5 [175.00] 0 [140.00] 1 [97.22] 3 [72.92] 6 [53.47] 4 [33.33] 2 [20.00] 7 [20.00]	0-2-7-10 0 [365.00] 10 [218.75] 7 [175.00] 2 [140.00] 3 [97.22] 5 [72.92] 8 [53.47] 6 [33.33] 4 [20.00] 9 [20.00]	0-2-4-9 2 [365.00] 0 [218.75] 9 [175.00] 4 [140.00] 5 [97.22] 7 [72.92] 10 [53.47] 8 [33.33] 6 [20.00] 11 [20.00]	0-3-5-7 5 [365.00] 3 [218.75] 0 [175.00] 7 [140.00] 8 [97.22] 10 [72.92] 1 [53.47] 11 [33.33] 2 [20.00] 9 [20.00]
TSC4-24			TSC4-23			TSC4-22B					

Root candidates and weights

Names

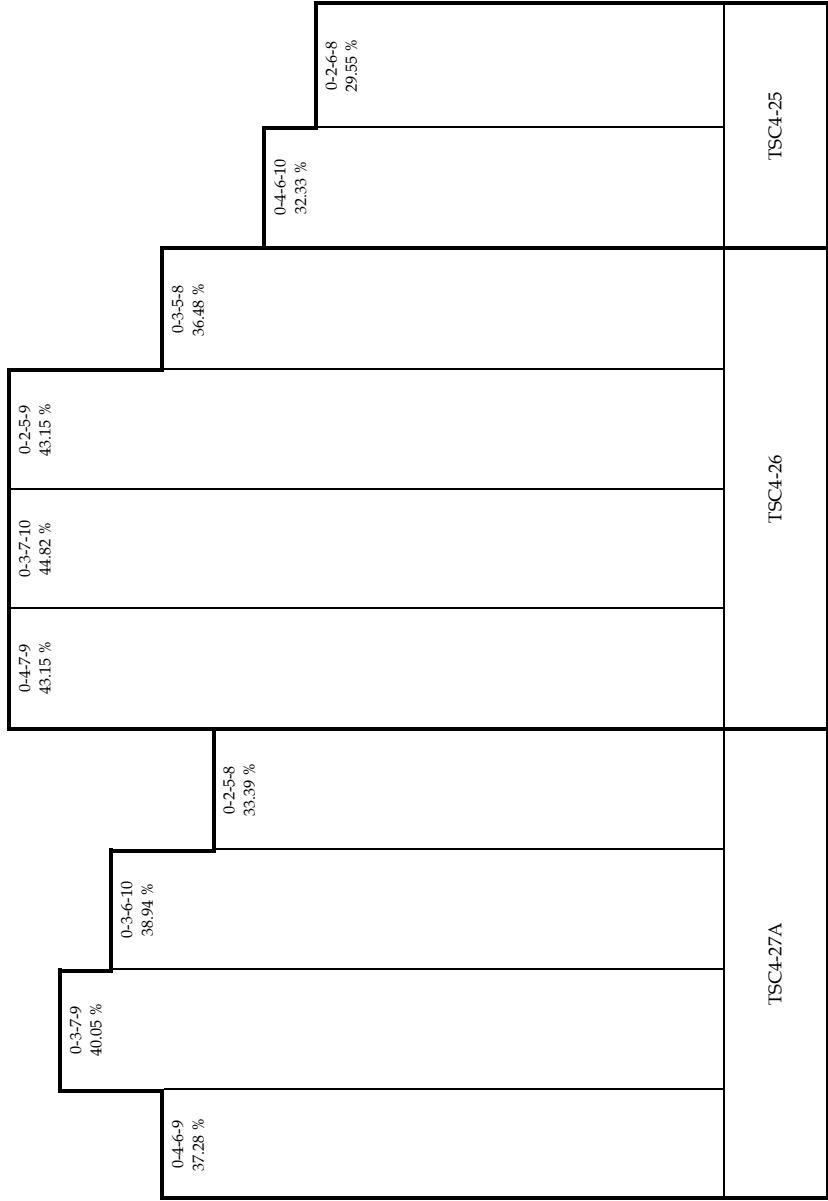
0-4-6-8 First inversion augmented seventh First inversion augmented dominant seventh First inversion augmented minor seventh Seventh augmented fifth	0-4-8-10 Augmented seventh Augmented dominant seventh Augmented minor seventh Seventh augmented fifth	0-2-6-10 Third inversion augmented seventh Third inversion augmented dominant seventh Third inversion augmented minor seventh Third inversion augmented fifth	0-2-4-8 Second inversion augmented seventh Second inversion augmented dominant seventh Second inversion augmented minor seventh Second inversion augmented fifth	0-5-7-10 Dominant seventh suspended fourth Suspended seventh Dominant seventh sus 4 Seventh suspended 4th	0-2-7-9 Third inversion dominant seventh sus 4 Third inversion dominant seventh suspended fourth Third inversion suspended seventh	0-3-5-10 Perfect quartal tetrachord Pentatonic seventh Second inversion dominant seventh suspended fourth Second inversion suspended seventh Second inversion dominant seventh sus 4	0-2-5-7 Genus Primum scale as chords First inversion dominant seventh sus 4 First inversion dominant seventh suspended fourth First inversion suspended seventh	0-5-8-10 Mistuned Historical Church Bell 8 (calculated)	0-2-7-10 Mistuned Historical Church Bell 8 (aural)	0-2-4-9 Third inversion Mistuned Historical Church Bell 8 (aural)	0-3-5-7 Minor add 4 tetrachord
TSC4-24			TSC4-23			TSC4-22B					

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-4-6-9	0-3-7-9	0-3-6-10	0-2-5-8	0-4-7-9	0-3-7-10	0-2-5-9	0-3-5-8	0-4-6-10	0-2-6-8
4 [203.33] 6 [112.50] 0 [100.00] 9 [100.00] 1 [100.00] 83.33 [83.33] 7 [70.00] 11 [62.50] 10 [53.33] 8 [45.83] 2 [32.50]	7 [203.33] 9 [112.50] 0 [100.00] 3 [100.00] 4 [100.00] 83.33 [83.33] 10 [70.00] 2 [62.50] 1 [53.33] 11 [45.83] 5 [32.50]	10 [203.33] 0 [112.50] 3 [100.00] 6 [100.00] 7 [83.33] 1 [70.00] 5 [62.50] 4 [53.33] 2 [45.83] 8 [32.50]	0 [203.33] 2 [112.50] 5 [100.00] 8 [100.00] 9 [100.00] 3 [83.33] 7 [70.00] 4 [62.50] 6 [53.33] 4 [45.83] 10 [32.50]	4 [183.33] 7 [170.00] 9 [112.50] 0 [100.00] 11 [95.83] 2 [82.50] 1 [33.33] 8 [33.33] 5 [20.00] 10 [20.00] 6 [12.50]	7 [183.33] 10 [170.00] 0 [112.50] 3 [100.00] 2 [95.83] 5 [82.50] 4 [33.33] 11 [33.33] 1 [20.00] 8 [20.00] 9 [12.50]	9 [183.33] 0 [170.00] 2 [112.50] 5 [100.00] 4 [95.83] 7 [82.50] 1 [33.33] 6 [33.33] 3 [20.00] 10 [20.00] 11 [12.50]	0 [183.33] 3 [170.00] 5 [112.50] 8 [100.00] 7 [95.83] 10 [82.50] 4 [33.33] 9 [33.33] 1 [20.00] 6 [20.00] 2 [12.50]	4 [153.33] 10 [153.33] 0 [112.50] 6 [112.50] 2 [112.50] 4 [112.50] 2 [65.83] 10 [65.83] 1 [50.00] 5 [50.00] 7 [50.00] 11 [50.00]	0 [153.33] 6 [153.33] 2 [112.50] 8 [112.50] 4 [112.50] 2 [65.83] 10 [65.83] 1 [50.00] 3 [50.00] 7 [50.00] 9 [50.00]
TSC4-27A			TSC4-26			TSC4-25			

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-4-6-9 32.38 %	0-3-7-9 32.38 %	0-3-6-10 32.38 %	0-2-5-8 32.38 %	0-4-7-9 7.84 %	0-3-7-10 7.84 %	0-2-5-9 7.84 %	0-3-5-8 7.84 %	0-4-6-10 0 % 2 equal roots	0-2-6-8 0 % 2 equal roots	TSC4-27A	TSC4-26	TSC4-25
										Root clarity		

Root candidates and weights

0-4-6-9	0-3-7-9	0-3-6-10	0-2-5-8	0-4-7-9	0-3-7-10	0-2-5-9	0-3-5-8	0-4-6-10	0-2-6-8	
2 [231.67]	5 [231.67]	8 [231.67]	10 [231.67]	0 [275.00]	3 [275.00]	5 [275.00]	8 [275.00]	0 [230.00]	2 [230.00]	
9 [175.00]	0 [175.00]	3 [175.00]	5 [175.00]	9 [255.00]	0 [255.00]	2 [255.00]	5 [255.00]	6 [230.00]	8 [230.00]	
0 [155.56]	3 [155.56]	6 [155.56]	8 [155.56]	5 [143.75]	8 [143.75]	10 [143.75]	1 [143.75]	4 [131.25]	0 [131.25]	
6 [140.00]	9 [140.00]	0 [140.00]	2 [140.00]	7 [131.25]	10 [131.25]	0 [131.25]	3 [131.25]	10 [131.25]	6 [131.25]	
4 [131.25]	7 [131.25]	10 [131.25]	0 [131.25]	2 [123.75]	5 [123.75]	7 [123.75]	10 [123.75]	2 [98.75]	4 [98.75]	
5 [97.22]	8 [97.22]	11 [97.22]	1 [97.22]	4 [100.00]	7 [100.00]	9 [100.00]	0 [100.00]	8 [98.75]	10 [98.75]	
11 [81.67]	2 [81.67]	5 [81.67]	7 [81.67]	3 [33.33]	6 [33.33]	1 [33.33]	4 [33.33]	3 [50.00]	1 [50.00]	
8 [62.22]	11 [62.22]	2 [62.22]	4 [62.22]	8 [33.33]	11 [33.33]	8 [33.33]	11 [33.33]	5 [50.00]	5 [50.00]	
7 [12.50]	1 [12.50]	1 [12.50]	3 [12.50]	6 [20.00]	2 [20.00]	4 [20.00]	2 [20.00]	9 [50.00]	7 [50.00]	
10 [12.50]	10 [12.50]	4 [12.50]	6 [12.50]	11 [20.00]	9 [20.00]	11 [20.00]	7 [20.00]	11 [50.00]	11 [50.00]	
				10 [12.50]	1 [12.50]	3 [12.50]	6 [12.50]			
TSC4-27A							TSC4-26			TSC4-25

Root candidates and weights

Names

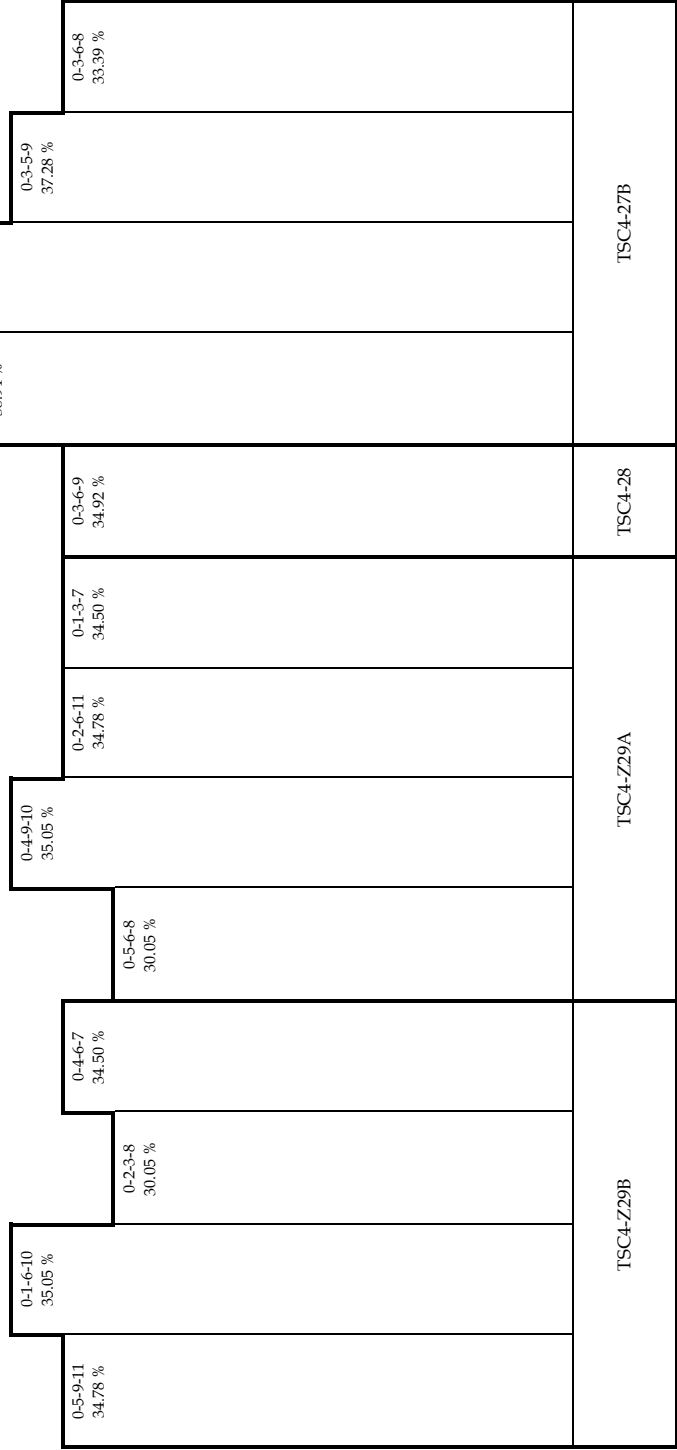
0-4-6-9 tetrachord	0-3-7-9 Minor sixth tetrachord	0-3-6-10 Half- diminished seventh "Tristan" chord	0-2-5-8 0-2-5-8 tetrachord	0-4-7-9 Major triad add six Major sixth tetrachord Sixth	0-3-7-10 Minor seventh tetrachord Minor seventh chord Minor subdomina nt seventh Minor- minor seventh Third inversion major triad add six	0-2-5-9 Second inversion major triad add six	0-3-5-8 First inversion major triad add six Golden Section scale as chords	0-4-6-10 French sixth Dominant seventh plus four Messiaen's truncated mode 6 Inverse scale	0-2-6-8 First inversion French sixth First inversion dominant seventh plus four Messiaen's truncated mode 6 scale
								TSC4-25	
								TSC4-26	
								TSC4-27A	

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-5-9-11 [153.33] 0 [150.00] 11 [112.50] 5 [100.00] 4 [83.33] 7 [82.50] 3 [53.33] 6 [50.00] 1 [45.83] 10 [20.00] 2 [12.50]	0-1-6-10 10 [153.33] 1 [150.00] 0 [112.50] 6 [100.00] 5 [83.33] 8 [82.50] 4 [53.33] 7 [50.00] 2 [45.83] 11 [20.00] 3 [12.50]	0-2-3-8 0 [153.33] 3 [150.00] 2 [112.50] 8 [100.00] 7 [83.33] 10 [82.50] 6 [53.33] 9 [50.00] 4 [45.83] 1 [20.00] 5 [12.50]	0-4-6-7 4 [153.33] 7 [150.00] 6 [112.50] 0 [100.00] 11 [83.33] 2 [82.50] 10 [53.33] 1 [50.00] 8 [45.83] 5 [20.00] 9 [12.50]	0-5-6-8 0 [183.33] 6 [120.00] 8 [112.50] 5 [100.00] 3 [70.00] 10 [65.83] 7 [62.50] 4 [53.33] 1 [50.00] 9 [33.33] 2 [12.50]	0-4-9-10 4 [183.33] 10 [120.00] 0 [112.50] 9 [100.00] 7 [70.00] 2 [65.83] 11 [62.50] 8 [53.33] 5 [50.00] 1 [33.33] 6 [12.50]	0-2-6-11 6 [183.33] 0 [120.00] 2 [112.50] 11 [100.00] 9 [70.00] 4 [65.83] 1 [62.50] 10 [53.33] 7 [50.00] 3 [33.33] 8 [12.50]	0-1-3-7 7 [183.33] 1 [120.00] 3 [112.50] 0 [100.00] 10 [70.00] 5 [65.83] 2 [62.50] 11 [53.33] 8 [50.00] 4 [33.33] 9 [12.50]	0-3-6-9 1 [103.33] 4 [103.33] 7 [103.33] 10 [103.33] 0 [100.00] 3 [100.00] 6 [100.00] 9 [100.00] 2 [12.50] 5 [12.50] 8 [12.50] 11 [12.50]	0-3-6-9 9 [150.00] 6 [133.33] 0 [120.00] 4 [115.83] 2 [112.50] 1 [83.33] 7 [70.00] 10 [53.33] 8 [12.50] 11 [12.50]	0-4-7-10 7 [150.00] 4 [133.33] 10 [120.00] 2 [115.83] 0 [112.50] 11 [83.33] 5 [70.00] 8 [53.33] 6 [12.50] 9 [12.50]	0-3-5-9 0 [150.00] 9 [133.33] 3 [120.00] 7 [115.83] 5 [112.50] 4 [83.33] 10 [70.00] 1 [53.33] 2 [12.50] 11 [12.50]	0-3-6-8 3 [150.00] 0 [133.33] 6 [120.00] 10 [115.83] 8 [112.50] 7 [83.33] 1 [70.00] 4 [53.33] 2 [12.50] 5 [12.50]
TSC4-Z29B								TSC4-Z29A	TSC4-28	TSC4-27B		

Spectral pitches and weights

Root candidates and weights

0-5-9-11 5 [275.00] 11 [140.00] 9 [131.25] 0 [100.00] 7 [98.75] 2 [81.67] 10 [72.92] 1 [62.22] 4 [50.00] 8 [33.33] 3 [12.50]	0-1-6-10 6 [275.00] 0 [140.00] 10 [131.25] 1 [100.00] 8 [98.75] 3 [81.67] 11 [72.92] 2 [62.22] 5 [50.00] 9 [33.33] 4 [12.50]	0-2-3-8 8 [275.00] 2 [140.00] 0 [131.25] 3 [100.00] 10 [98.75] 5 [81.67] 1 [72.92] 4 [62.22] 7 [50.00] 11 [33.33] 6 [12.50]	0-4-6-7 0 [275.00] 6 [140.00] 4 [131.25] 7 [100.00] 2 [98.75] 9 [81.67] 5 [72.92] 8 [62.22] 11 [50.00] 3 [33.33] 10 [12.50]	0-5-6-8 8 [230.00] 5 [175.00] 6 [131.25] 10 [123.75] 0 [100.00] 1 [97.22] 2 [62.22] 4 [53.47] 11 [50.00] 7 [20.00] 3 [12.50]	0-4-9-10 0 [230.00] 9 [175.00] 10 [131.25] 2 [123.75] 4 [100.00] 5 [97.22] 6 [62.22] 8 [53.47] 11 [50.00] 7 [20.00] 11 [12.50]	0-2-6-11 2 [230.00] 11 [175.00] 0 [131.25] 4 [123.75] 6 [100.00] 7 [97.22] 8 [62.22] 10 [53.47] 5 [50.00] 1 [20.00] 9 [12.50]	0-1-3-7 3 [230.00] 0 [175.00] 1 [131.25] 5 [123.75] 7 [100.00] 8 [97.22] 9 [62.22] 11 [53.47] 6 [50.00] 2 [20.00] 10 [12.50]	0-3-6-9 2 [155.00] 5 [155.00] 8 [155.00] 11 [155.00] 0 [100.00] 3 [100.00] 6 [100.00] 9 [100.00] 10 [12.50] 7 [12.50] 10 [12.50]	0-3-6-9 2 [406.67] 0 [131.25] 6 [100.00] 9 [100.00] 5 [97.22] 11 [81.67] 7 [72.92] 8 [62.22] 10 [53.47] 4 [37.92]	0-3-5-9 5 [406.67] 3 [131.25] 0 [100.00] 9 [100.00] 8 [97.22] 2 [81.67] 10 [72.92] 11 [62.22] 1 [53.47] 7 [37.92]	0-3-6-8 8 [406.67] 6 [131.25] 0 [100.00] 3 [100.00] 11 [97.22] 5 [81.67] 1 [72.92] 2 [62.22] 4 [53.47] 10 [37.92]	TSC4-Z29A	TSC4-Z29B	TSC4-Z29C	TSC4-Z28	TSC4-Z27B
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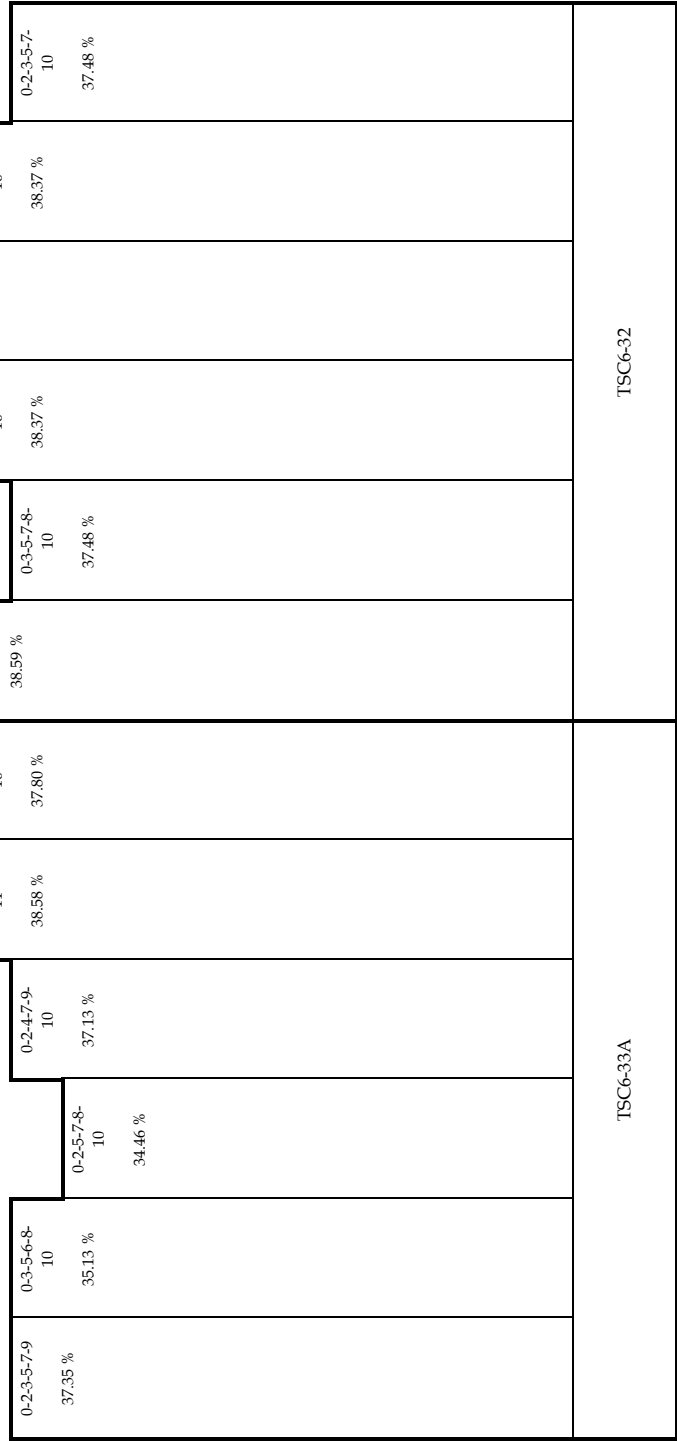
Root candidates and weights

0-5-9-11 0-5-9-11 tetrachord	0-1-6-10 0-1-6-10 tetrachord	0-2-3-8 0-2-3-8 tetrachord	0-4-6-7 0-4-6-7 tetrachord	0-5-6-8 0-5-6-8 tetrachord	0-4-9-10 0-4-9-10 tetrachord	0-2-6-11 Raga Sumukam scale as chords	0-1-3-7 All- interval tetrachord B	0-3-6-9 Diminsh d seventh Fully- diminsh d seventh	0-4-7-10 Dominant seventh Major- minor seventh (in minor mode) Major- minor seventh chord Major- minor subdomin ant seventh German sixth	0-2-6-9 Third inversion dominant seventh chord Third inversion major- minor seventh (in minor mode) Third inversion German sixth	0-3-5-9 Second inversion dominant seventh chord Second inversion major- minor seventh (in minor mode) Second inversion German sixth	0-3-6-8 First inversion dominant seventh chord First inversion major- minor seventh (in minor mode) First inversion German sixth	TSC4-27B	
													TSC4-28	
														TSC4-29A
														TSC4-29B

Selected six-pitch chords
(eleventh chords and hexachords)

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series



Spectral pitches and weights

0-2-3-5-7-9	0-3-5-6-8-10	0-2-5-7-8-10	0-2-4-7-9-10	0-2-4-6-9-11	0-1-3-5-7-10	0-2-4-5-7-9	0-3-5-7-8-10	0-2-5-7-9-10	0-2-4-7-9-11	0-1-3-5-8-10	0-2-3-5-7-10
7 [215.83] 9 [195.83] 0 [170.00] 2 [162.50] 5 [132.50] 3 [120.00] 4 [95.83] 10 [70.00] 1 [53.33] 11 [45.83] 6 [33.33]	10 [215.83] 0 [195.83] 3 [170.00] 5 [162.50] 8 [132.50] 6 [120.00] 7 [95.83] 1 [70.00] 4 [53.33] 2 [45.83] 9 [33.33]	0 [215.83] 2 [195.83] 5 [170.00] 7 [162.50] 10 [132.50] 8 [120.00] 9 [95.83] 3 [70.00] 6 [53.33] 4 [45.83] 11 [33.33]	2 [215.83] 4 [195.83] 7 [170.00] 9 [162.50] 0 [132.50] 10 [120.00] 11 [95.83] 5 [70.00] 8 [53.33] 6 [45.83] 1 [33.33]	4 [215.83] 6 [195.83] 9 [170.00] 11 [162.50] 2 [132.50] 0 [120.00] 1 [95.83] 7 [70.00] 10 [53.33] 8 [45.83] 3 [33.33]	5 [215.83] 7 [195.83] 10 [170.00] 0 [162.50] 3 [132.50] 1 [120.00] 2 [95.83] 8 [70.00] 11 [53.33] 4 [45.83] 9 [33.33]	4 [195.83] 9 [195.83] 2 [182.50] 7 [182.50] 0 [170.00] 5 [170.00] 11 [120.00] 9 [95.83] 6 [45.83] 1 [33.33] 8 [33.33] 3 [20.00] 10 [20.00]	0 [195.83] 7 [195.83] 5 [182.50] 10 [182.50] 3 [170.00] 8 [170.00] 2 [120.00] 11 [95.83] 9 [45.83] 4 [33.33] 11 [33.33] 1 [20.00] 6 [20.00]	2 [195.83] 9 [195.83] 0 [182.50] 7 [182.50] 5 [170.00] 10 [120.00] 4 [95.83] 11 [45.83] 1 [33.33] 6 [33.33] 3 [20.00] 8 [20.00]	4 [195.83] 11 [195.83] 2 [182.50] 9 [182.50] 7 [170.00] 0 [120.00] 6 [95.83] 1 [45.83] 3 [33.33] 8 [33.33] 5 [20.00] 10 [20.00]	0 [195.83] 5 [195.83] 3 [182.50] 10 [182.50] 8 [170.00] 1 [120.00] 7 [95.83] 2 [45.83] 4 [33.33] 9 [33.33] 6 [20.00] 11 [20.00]	2 [195.83] 7 [195.83] 0 [182.50] 5 [182.50] 10 [170.00] 3 [120.00] 9 [95.83] 4 [45.83] 6 [33.33] 11 [33.33] 1 [20.00] 8 [20.00]
TSC6-33A						TSC6-32					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

0-2-3-5-7-9 57.69 %	0-3-5-6-8-10 57.69 %	0-2-5-7-8-10 57.69 %	0-2-4-7-9-10 57.69 %	0-2-4-6-9-11 57.69 %	0-1-3-5-7-10 57.69 %	0-2-3-5-7-10 0 % 2 equal roots	0-3-5-7-8-10 0 % 2 equal roots	0-2-5-7-9-10 0 % 2 equal roots	0-2-4-7-9-11 0 % 2 equal roots	0-1-3-5-8-10 0 % 2 equal roots	0-2-3-5-7-10 0 % 2 equal roots
TSC6-33A						TSC6-32					
Root clarity											

Root candidates and weights

0-2-3-5-7-9	0-2-5-7-8-10	0-2-5-7-8-10	0-2-4-7-9-10	0-2-4-6-9-11	0-1-3-5-7-10	0-2-4-5-7-9	0-3-5-7-8-10	0-2-5-7-9-10	0-2-4-7-9-11	0-1-3-5-8-10	0-2-3-5-7-10
5 [575.56] 7 [365.00] 2 [255.00] 0 [243.75] 3 [218.75] 10 [143.75] 9 [140.00] 8 [97.22] 11 [62.22] 1 [53.47] 4 [20.00]	8 [575.56] 10 [365.00] 5 [255.00] 3 [243.75] 6 [218.75] 1 [143.75] 0 [140.00] 11 [97.22] 2 [62.22] 4 [53.47] 7 [20.00]	10 [575.56] 0 [365.00] 7 [255.00] 5 [243.75] 8 [218.75] 3 [143.75] 2 [140.00] 1 [97.22] 4 [62.22] 6 [53.47] 9 [20.00]	0 [575.56] 2 [365.00] 9 [255.00] 7 [243.75] 10 [218.75] 5 [143.75] 4 [140.00] 3 [97.22] 6 [62.22] 8 [53.47] 11 [20.00]	2 [575.56] 4 [365.00] 11 [255.00] 9 [243.75] 0 [218.75] 7 [143.75] 6 [140.00] 5 [97.22] 8 [62.22] 10 [53.47] 1 [20.00]	3 [575.56] 5 [365.00] 0 [255.00] 10 [243.75] 1 [218.75] 8 [143.75] 7 [140.00] 6 [97.22] 9 [62.22] 11 [53.47] 2 [20.00]	0 [391.67] 5 [391.67] 2 [365.00] 7 [365.00] 9 [255.00] 10 [143.75] 4 [140.00] 3 [53.47] 1 [33.33] 8 [33.33] 6 [20.00] 11 [20.00]	3 [391.67] 8 [391.67] 5 [365.00] 10 [365.00] 0 [255.00] 7 [143.75] 6 [140.00] 9 [53.47] 4 [33.33] 11 [33.33] 2 [20.00] 9 [20.00]	5 [391.67] 10 [391.67] 0 [365.00] 7 [365.00] 2 [255.00] 9 [143.75] 8 [140.00] 9 [53.47] 1 [33.33] 6 [33.33] 4 [20.00] 11 [20.00]	0 [391.67] 7 [391.67] 2 [365.00] 9 [365.00] 4 [255.00] 5 [143.75] 11 [140.00] 10 [53.47] 3 [33.33] 8 [33.33] 1 [20.00] 6 [20.00]	1 [391.67] 8 [391.67] 3 [365.00] 10 [365.00] 5 [255.00] 6 [143.75] 0 [140.00] 11 [53.47] 4 [33.33] 9 [33.33] 2 [20.00] 7 [20.00]	3 [391.67] 10 [391.67] 0 [365.00] 5 [365.00] 7 [255.00] 8 [143.75] 2 [140.00] 1 [53.47] 6 [33.33] 11 [33.33] 4 [20.00] 9 [20.00]
TSC6-33A						TSC6-32					

Root candidates and weights

Names

0-2-3-5-7-9	Raga Gauri Velavali	0-3-5-6-8-10	0-3-5-6-8-10 hexachord	0-2-5-7-8-10	Raga Navamano hari	0-2-4-7-9-10	0-2-4-7-9-10 hexachord	0-2-4-6-9-11	0-2-4-6-9-11 hexachord	0-1-3-5-7-10	Minor seventh (add 11, flat nine)	0-2-4-5-7-9	Diatonic hexachord Scottish hexatonic Arezzo major diatonic hexachord (the first sixth notes form the hexachord)	0-3-5-7-8-10	Phrygian hexatonic	0-2-5-7-9-10	Dominant thirteenth suspended fourth Thirteenth suspended fourth Mixolydian hexatonic Pyongjo (Korea)	0-2-4-7-9-11	Quintal hexatonic	0-1-3-5-8-10	Quartal hexatonic Ritsu (Japan)	0-2-3-5-7-10	Minor eleventh Minor hexatonic Hexatonic Minor Eskimo hexatonic 1 (Alaska (King Island))	TSC6-33A	TSC6-32
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Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-2-4-6-8-11 34.45 %	0-1-3-5-7-9 34.12 %	0-3-4-6-8-10 33.67 %	0-2-5-6-8-10 31.89 %	0-2-4-7-8-10 33.00 %	0-2-4-6-9-10 34.56 %	0-2-4-6-7-9 37.35 %	0-3-5-7-9-10 37.80 %	0-2-5-7-9-11 38.58 %	0-1-3-6-8-10 37.13 %	0-2-3-5-8-10 34.46 %	0-2-4-5-7-10 35.13 %	TSC6-34A	TSC6-33B
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Spectral pitches and weights

0-2-4-6-8-11	0-1-3-5-7-9	0-3-4-6-8-10	0-2-5-6-8-10	0-2-4-7-8-10	0-2-4-6-9-10	0-2-4-6-7-9	0-3-5-7-9-10	0-2-5-7-9-11	0-1-3-6-8-10	0-2-3-5-8-10	0-2-4-5-7-10
6 [215.83] 4 [165.83] 0 [153.33] 11 [150.00] 8 [145.83] 2 [132.50] 3 [83.33] 9 [70.00] 10 [65.83] 1 [62.50] 7 [50.00]	7 [215.83] 5 [165.83] 1 [153.33] 0 [150.00] 9 [145.83] 3 [132.50] 4 [83.33] 10 [70.00] 11 [65.83] 2 [62.50] 8 [50.00]	10 [215.83] 8 [165.83] 4 [153.33] 3 [150.00] 0 [145.83] 6 [132.50] 7 [83.33] 1 [70.00] 2 [65.83] 5 [62.50] 11 [50.00]	0 [215.83] 10 [165.83] 6 [153.33] 5 [150.00] 2 [145.83] 8 [132.50] 9 [83.33] 3 [70.00] 4 [65.83] 7 [62.50] 1 [50.00]	2 [215.83] 0 [165.83] 8 [153.33] 7 [150.00] 4 [145.83] 10 [132.50] 11 [83.33] 5 [70.00] 6 [65.83] 9 [62.50] 3 [50.00]	4 [215.83] 2 [165.83] 10 [153.33] 9 [150.00] 6 [145.83] 0 [132.50] 1 [83.33] 7 [70.00] 8 [65.83] 11 [62.50] 5 [50.00]	4 [215.83] 2 [182.50] 7 [170.00] 9 [162.50] 6 [145.83] 0 [120.00] 11 [95.83] 1 [83.33] 10 [53.33] 8 [45.83] 5 [20.00]	7 [215.83] 5 [182.50] 10 [170.00] 0 [162.50] 9 [145.83] 3 [120.00] 2 [95.83] 4 [83.33] 1 [53.33] 11 [45.83] 8 [20.00]	9 [215.83] 7 [182.50] 0 [170.00] 2 [162.50] 11 [145.83] 5 [120.00] 4 [95.83] 6 [83.33] 3 [53.33] 1 [45.83] 10 [20.00]	10 [215.83] 8 [182.50] 1 [170.00] 3 [162.50] 0 [145.83] 6 [120.00] 5 [95.83] 7 [83.33] 4 [53.33] 2 [45.83] 11 [20.00]	0 [215.83] 10 [182.50] 3 [170.00] 5 [162.50] 2 [145.83] 8 [120.00] 7 [95.83] 9 [83.33] 6 [53.33] 4 [45.83] 1 [20.00]	2 [215.83] 0 [182.50] 5 [170.00] 7 [162.50] 4 [145.83] 10 [120.00] 9 [95.83] 11 [83.33] 8 [53.33] 6 [45.83] 3 [20.00]
TSC6-34A						TSC6-33B					

Spectral pitches and weights

Root candidates and weights

0-2-4-6-8-11	0-1-3-5-7-9	0-3-4-6-8-10	0-2-5-6-8-10	0-2-4-7-8-10	0-2-4-6-9-10	0-2-4-6-7-9	0-3-5-7-9-10	0-2-5-7-9-11	0-1-3-6-8-10	0-2-3-5-8-10	0-2-4-5-7-10
4 [575.56] 2 [331.67] 8 [230.00] 0 [218.75] 6 [198.75] 11 [175.00] 10 [98.75] 7 [97.22] 1 [81.67] 9 [72.92] 5 [50.00]	5 [575.56] 3 [331.67] 9 [230.00] 1 [218.75] 7 [198.75] 0 [175.00] 11 [98.75] 8 [97.22] 2 [81.67] 10 [72.92] 6 [50.00]	8 [575.56] 6 [331.67] 0 [230.00] 4 [218.75] 10 [198.75] 3 [175.00] 2 [98.75] 11 [97.22] 5 [81.67] 1 [72.92] 9 [50.00]	10 [575.56] 8 [331.67] 2 [230.00] 6 [218.75] 0 [198.75] 5 [175.00] 4 [98.75] 1 [97.22] 7 [81.67] 3 [72.92] 11 [50.00]	0 [575.56] 10 [331.67] 4 [230.00] 2 [218.75] 2 [198.75] 7 [175.00] 6 [98.75] 3 [97.22] 9 [81.67] 5 [72.92] 1 [50.00]	2 [575.56] 0 [331.67] 6 [230.00] 10 [218.75] 4 [198.75] 9 [175.00] 8 [98.75] 5 [97.22] 11 [81.67] 8 [72.92] 7 [50.00]	2 [575.56] 0 [391.67] 9 [255.00] 7 [243.75] 4 [198.75] 5 [143.75] 6 [140.00] 11 [81.67] 8 [62.22] 10 [53.47] 3 [33.33]	5 [575.56] 3 [391.67] 0 [255.00] 10 [243.75] 7 [198.75] 8 [143.75] 9 [140.00] 2 [81.67] 11 [62.22] 1 [53.47] 6 [33.33]	7 [575.56] 5 [391.67] 2 [255.00] 0 [243.75] 9 [198.75] 10 [143.75] 11 [140.00] 4 [81.67] 1 [62.22] 3 [53.47] 8 [33.33]	8 [575.56] 6 [391.67] 3 [255.00] 1 [243.75] 10 [198.75] 11 [143.75] 0 [140.00] 5 [81.67] 2 [62.22] 4 [53.47] 9 [33.33]	10 [575.56] 8 [391.67] 5 [255.00] 3 [243.75] 0 [198.75] 1 [143.75] 2 [140.00] 7 [81.67] 4 [62.22] 6 [53.47] 11 [33.33]	0 [575.56] 10 [391.67] 7 [255.00] 5 [243.75] 2 [198.75] 3 [143.75] 4 [140.00] 9 [81.67] 6 [62.22] 8 [53.47] 1 [33.33]
TSC6-34A						TSC6-33B					

Root candidates and weights

Names

0-2-4-6-8-11 Eskimo hexatonic	0-1-3-5-7-9 0-1-3-5-7-9 hexachord	0-3-4-6-8-10 0-3-4-6-8-10 hexachord	0-2-5-6-8-10 0-2-5-6-8-10 hexachord	0-2-4-7-8-10 0-2-4-7-8-10 hexachord	0-2-4-6-9-10 "Mystic chord"	0-2-4-6-7-9 Ancient Chinese	0-3-5-7-9-10 Pentatonic minor add 6	0-2-5-7-9-11 Lydian hexatonic	0-1-3-6-8-10 Raga Gurjari Todi scale	0-2-3-5-8-10 First inversion dominant eleventh	0-2-4-5-7-10 Dominant eleventh	TSC6-33B	
													TSC6-34A

Names

Appendix A continues on the next page.

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-2-4-6-8-10 30.29 %	0-2-4-6-8-9 34.12 %	0-3-5-7-9-11 34.45 %	0-1-4-6-8-10 34.56 %	0-2-3-6-8-10 33.00 %	0-2-4-5-8-10 31.89 %	0-2-4-6-7-10 33.67 %
TSC6-34B						
TSC6-35						

Spectral pitches and weights

0-2-4-6-8-10	0-2-4-6-8-9	0-3-5-7-9-11	0-1-4-6-8-10	0-2-3-6-8-10	0-2-4-5-8-10	0-2-4-6-7-10
0 [165.83] 2 [215.83] 4 [165.83] 6 [165.83] 8 [165.83] 10 [153.33] [150.00] [145.83] [165.83]	4 [215.83] 6 [165.83] 0 [153.33] 9 [150.00] 8 [145.83] 2 [132.50] 1 [83.33] 7 [70.00] 10 [65.83] 11 [62.50] 3 [50.00]	7 [215.83] 9 [165.83] 3 [153.33] 0 [150.00] 11 [145.83] 5 [132.50] 4 [83.33] 10 [70.00] 1 [65.83] 2 [62.50] 6 [50.00]	8 [215.83] 10 [165.83] 4 [153.33] 1 [150.00] 0 [145.83] 6 [132.50] 5 [83.33] 11 [70.00] 2 [65.83] 3 [62.50] 7 [50.00]	10 [215.83] 0 [165.83] 6 [153.33] 3 [150.00] 2 [145.83] 8 [132.50] 7 [83.33] 1 [70.00] 4 [65.83] 5 [62.50] 9 [50.00]	0 [215.83] 2 [165.83] 8 [165.83] 5 [153.33] [150.00] 4 [145.83] 10 [132.50] 9 [83.33] 3 [70.00] 6 [65.83] 7 [62.50] 11 [50.00]	2 [215.83] 4 [165.83] 10 [153.33] 7 [150.00] 6 [145.83] 0 [132.50] 11 [83.33] 5 [70.00] 8 [65.83] 9 [62.50] 1 [50.00]
TSC6-35	TSC6-34B					

Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

<table border="1"> <tr><td>0-2-4-6-8-10</td></tr> <tr><td>0 % / 6 equal roots</td></tr> </table>	0-2-4-6-8-10	0 % / 6 equal roots								
	0-2-4-6-8-10									
	0 % / 6 equal roots									
0-2-4-6-8-10 TSC6-35	TSC6-34B									

Root candidates and weights

<p>0-2-4-6-8-10 [331.67] 0 [331.67] 2 [331.67] 4 [331.67] 6 [331.67] 8 [331.67] 10 [50.00] 1 [50.00] 3 [50.00] 5 [50.00] 7 [50.00] 9 [50.00] 11 [50.00]</p>	<p>0-2-4-6-8-9 [575.56] 2 [331.67] 4 [230.00] 8 [218.75] 6 [198.75] 9 [175.00] 10 [98.75] 5 [97.22] 11 [81.67] 7 [72.92] 1 [50.00]</p>	<p>0-3-5-7-9-11 [575.56] 5 [331.67] 7 [230.00] 11 [218.75] 3 [198.75] 0 [175.00] 1 [98.75] 8 [97.22] 2 [81.67] 10 [72.92] 4 [50.00]</p>	<p>0-1-4-6-8-10 [575.56] 6 [331.67] 8 [230.00] 0 [218.75] 4 [198.75] 1 [175.00] 2 [98.75] 9 [97.22] 3 [81.67] 11 [72.92] 5 [50.00]</p>	<p>0-2-3-6-8-10 [575.56] 8 [331.67] 10 [230.00] 2 [218.75] 6 [198.75] 3 [175.00] 4 [98.75] 11 [97.22] 5 [81.67] 7 [72.92] 1 [50.00]</p>	<p>0-2-4-5-8-10 [575.56] 10 [331.67] 0 [230.00] 4 [218.75] 8 [198.75] 5 [175.00] 6 [98.75] 1 [97.22] 7 [81.67] 9 [72.92] 3 [50.00]</p>	<p>0-2-4-6-7-10 [575.56] 0 [331.67] 2 [230.00] 6 [218.75] 10 [198.75] 4 [175.00] 8 [98.75] 3 [97.22] 9 [81.67] 5 [72.92] 11 [50.00]</p>	<p>TSC6-35</p>	<p>TSC6-34B</p>
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Root candidates and weights

0-2-4-6-8-10 Whole-Tone Collection I Whole-tone I Whole-tone scale Anhemitonic hexatonic Hexatonic Anhemitonic Messiaen mode 1 Messiaen Modus 1	0-2-4-6-8-9 hexachord	0-3-5-7-9-11 hexachord	0-1-4-6-8-10 Seven flat ninth sharp eleventh augmented	0-2-3-6-8-10 Takemitsu Tree Line mode 2	0-2-4-5-8-10 hexachord	0-2-4-6-7-10 Augmented eleventh
TSC6-35	TSC6-34B					

Twelve-pitch chords (chromatic scales as chords)

to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

0-1-2-3-4-5- 6-7-8-9-10- 11 33.29 %	TSC12-1
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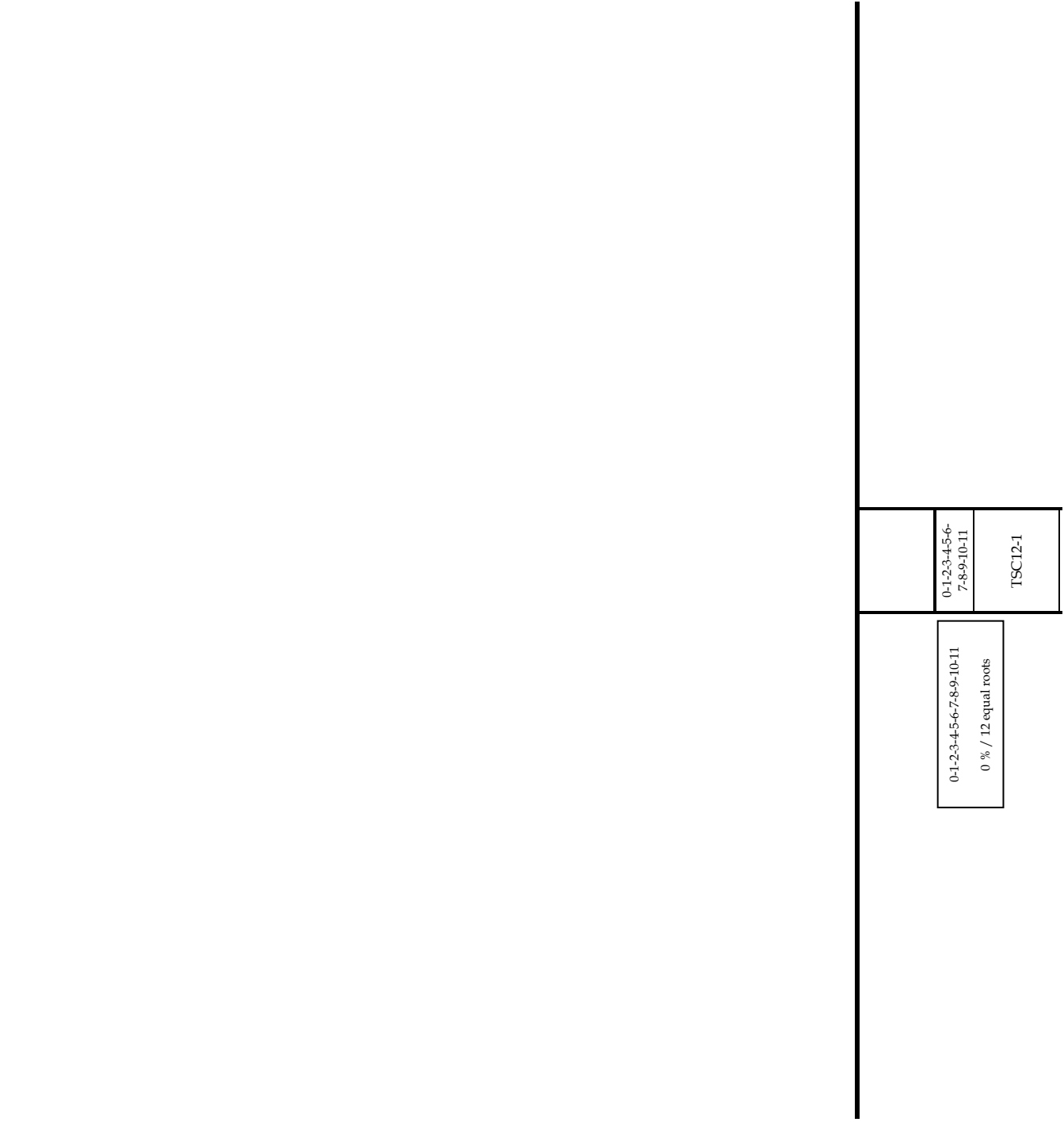
to 70%
to 67.5%
to 65%
to 62.5%
to 60%
to 57.5%
to 55%
to 52.5%
to 50%
to 47.5%
to 45%
to 42.5%
to 40%
to 37.5%
to 35%
to 32.5%
to 30%
to 27.5%
to 25%
to 22.5%
to 20%
to 17.5%
to 15%
to 12.5%
Similarity to the harmonic series

Spectral pitches and weights

0-1-2-3-4-5-6- 7-8-9-10-11	0 [215.83]	1 [215.83]	2 [215.83]	3 [215.83]	4 [215.83]	5 [215.83]	6 [215.83]	7 [215.83]	8 [215.83]	9 [215.83]	10 [215.83]	11 [215.83]	TSC12-1
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Spectral pitches and weights

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity



0-1-2-3-4-5-6-7-8-9-10-11 0% / 12 equal roots
0-1-2-3-4-5-6-7-8-9-10-11 0% / 3 equal roots
TSC12-1

to 220%
to 210%
to 200%
to 190%
to 180%
to 170%
to 160%
to 150%
to 140%
to 130%
to 120%
to 110%
to 100%
to 90%
to 80%
to 70%
to 60%
to 50%
to 40%
to 30%
to 20%
to 10%
0% / 2 equal roots
0% / 3 equal roots
0% / 4+ equal roots
Root clarity

Root candidates and weights

0-1-2-3-4-5-6- 7-8-9-10-11	0	[575,56]
	1	[575,56]
	2	[575,56]
	3	[575,56]
	4	[575,56]
	5	[575,56]
	6	[575,56]
	7	[575,56]
	8	[575,56]
	9	[575,56]
	10	[575,56]
	11	[575,56]
		[575,56]
		TSC12-1

Root candidates and weights

0-1-2-3-4-5-
6-7-8-9-10-
11

Chromatic
scales as
chords

TSC12-1

Appendix B

How harmonic
similarity (hsim) values
were calculated

The harmonic similarity measure for each chord was calculated as the sum of the harmonic similarity value for each just interval in the chord, divided by the divisor for its cardinality.

Intervals	Just interval size (cents)	Hsim
0-1	119.44	13.33
0-2	203.91	22.22
0-3	315.64	33.33
0-4	386.31	40.00
0-5	498.04	50.00
0-6	582.51	31.43
0-7	701.96	66.67
0-8	813.69	30.00
0-9	884.36	46.67
0-10	1017.60	28.89
0-11	1088.27	18.33

Cardinality	Divisor
1	1
2	1
3	3
4	6
5	10
6	15
7	21
8	28
9	36
10	45
11	55

Example:

The harmonic similarity measure for 0-4-7 is:

$$0-4 = 40.00$$

$$0-7 = 66.67$$

$$4-7 = 0-3 = 33.33$$

$$(40.00 + 66.67 + 33.33) / 3 = \mathbf{46.67}$$

Source:

Gill KZ, Purves D (2009) *A Biological Rationale for Musical Scales*. PLoS ONE 4(12): e8144. doi:10.1371/journal.pone.0008144