

Mixed Sagittal Athenian Chord Charts

Diads

Andrew Meronek (2018)

1:1
Unison

1:2
Octave
(2nd Harmonic)

2:3
Perfect Fifth
(3rd Harmonic)

3:4
Perfect Fourth

5
3:5
Quintal Major Sixth

4:5
Quintal Major Third
(5th Harmonic)

6:5
Quintal Minor Third

4:7
Septimal Minor Seventh
(7th Harmonic)

9
5:7
Small Septimal Tritone

6:7
Septimal Minor Third

5:8
Quintal Minor Sixth

7:8
Septimal Major Second

13
5:9
Quintal Minor Seventh

7:9
Septimal Major Third

8:9
Major Whole Tone
(9th Harmonic)

7:10
Large Septimal Tritone

17
9:10
Minor Whole Tone

6:11
Undecimal Neutral Seventh

7:11
Undecimal Minor Sixth

8:11
Undecimal Tritone
(11th Harmonic)

21
9:11
Undecimal Neutral Third

10:11

7:12
Septimal Major Sixth

11:12
Undecimal Neutral Half-Step

25
7:13

8:13
13th Harmonic

9:13

10:13

11:13

12:13

31
9:14
Septimal Minor Sixth

11:14

13:14

8:15
Quintal Major Seventh
(15th Harmonic)

35 11:15 13:15 14:15 9:16 11:16
Cowell Half-Step Pythagorean Minor Seventh

40 13:16 15:16 9:17 10:17 11:17 12:17 13:17
Quintal Major Half-Step

47 14:17 15:17 16:17 11:18 13:18 17:18
Overtone Half-Step (17th Harmonic) Undecimal Neutral Sixth

53 11:20 13:20 17:20 11:21 13:21 16:21 17:21 20:21
Septimal Fourth (21st Harmonic)

61 13:22 15:22 17:22 21:22 13:24 17:24 13:25 14:25

69 16:25 17:25 18:25 21:25 22:25 24:25
Quintal Augmented Fifth (25th Harmonic) Quintal Augmented Fourth Quintal Minor Half-Step

75 15:26 17:26 21:26 25:26 14:27 16:27
Septimal Major Seventh Pythagorean Major Sixth (27th Harmonic)

81 17:27 20:27 22:27 25:27 26:27 15:28 17:28 25:28 27:28
Wolf Fourth

90 17:30 17:32 21:32 25:32 27:32
Quintal Diminished Fourth Pythagorean Minor Third

The image displays ten staves of musical notation, each representing a set of diads. Each staff begins with a measure number (35, 40, 47, 53, 61, 69, 75, 81, 90) and contains several diads. Each diad is represented by two notes on a staff, with a frequency ratio written above it. Some diads are accompanied by names and descriptions of the intervals. The notation includes various accidentals (sharps, flats, naturals) and some diads are marked with 'x' to indicate specific characteristics or tuning adjustments. The intervals shown include Cowell Half-Step, Pythagorean Minor Seventh, Quintal Major Half-Step, Overtone Half-Step (17th Harmonic), Undecimal Neutral Sixth, Septimal Fourth (21st Harmonic), Quintal Augmented Fifth (25th Harmonic), Quintal Augmented Fourth, Quintal Minor Half-Step, Septimal Major Seventh, Pythagorean Major Sixth (27th Harmonic), Wolf Fourth, Quintal Diminished Fourth, and Pythagorean Minor Third.

95 27:40 64:81 81:128 128:243
 Wolf Fifth Pythagorean Major Third Pythagorean Minor Sixth Pythagorean Major Seventh

99 243:256 512:729 729:1024
 Pythagorean Diatonic Semitone Pythagorean Augmented Fourth Pythagorean Diminished Fifth

102 2048:2187 4096:6561 6561:8192
 Pythagorean Chromatic Semitone Pythagorean Augmented Fifth Pythagorean Diminished Fourth

105 262144:524288
 Pythagorean Augmented Seventh