

Musical MIDI Accompaniment



Chord Reference Manual

This document was prepared from version 1.7 of MMA.

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Chapter 1

Chord Reference

This document is a reference to the chords and scales use in *MtA*. It has been generated directly from the module `chordtable.py` in the *MtA* sources. Each section shows the chord name, a brief description, the chord notes for a “C” chord, and the associated scale tones. These chords and scales are used in *MtA* to generate chords, bass, arpeggios, arias, harmonies and scales.

In all cases you will need to preface the name with a chord pitch. For example, the reference for an 11th chord is listed simply as “11”; you would use a “C11” or “Eb11”, etc. in your *MtA* source file. Read the *MtA* Reference Guide if you don’t understand this.

This document was prepared as a reference to verify the correctness of the chords and scales used in *MtA*. If you find an error, please let the author know.

MtA defines 87 unique chords plus 53 aliases. Chords used in *MtA* via aliased names are listed after the main name.

(b5) — Major triad with flat 5th.



+7b9#11 — Augmented 7th with flat 9th and sharp 11th.



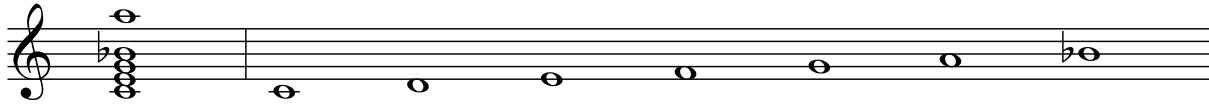
11 — 9th chord plus 11th (3rd not voiced).



11 \flat 9 — 7th chord plus flat 9th and 11th.



13 — 7th (including 5th) plus 13th (the 9th and 11th are not voiced).



13 \sharp 11 — 7th plus sharp 11th and 13th (9th not voiced).



13 \sharp 9 — 7th (including 5th) plus 13th and sharp 9th (11th not voiced).



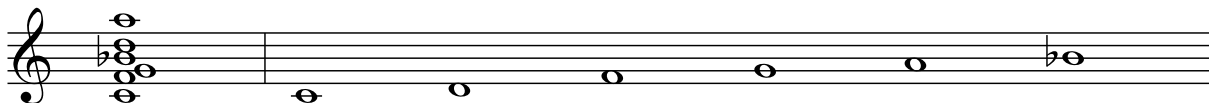
13 \flat 5 — 7th with flat 5th, plus 13th (the 9th and 11th are not voiced).



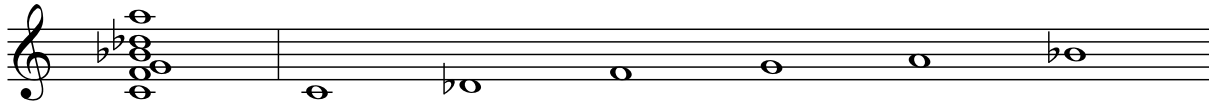
13 \flat 9, M7(add13) — 7th (including 5th) plus 13th and flat 9th (11th not voiced).



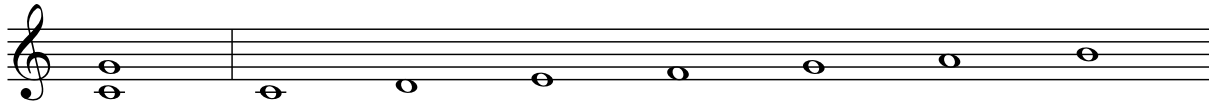
13sus — 7sus, plus 9th and 13th



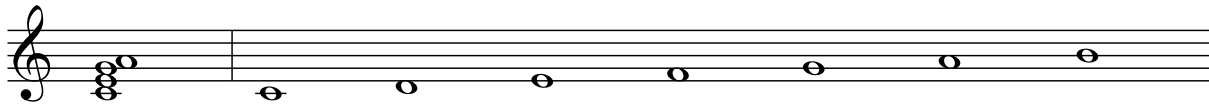
13sus \flat 9 — 7sus, plus flat 9th and 13th



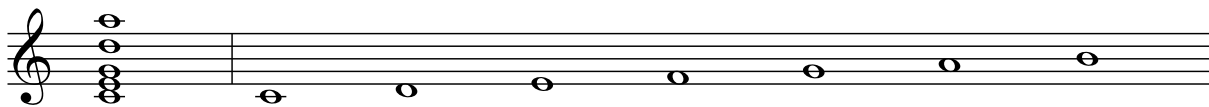
5 — Altered Fifth or Power Chord; root and 5th only.



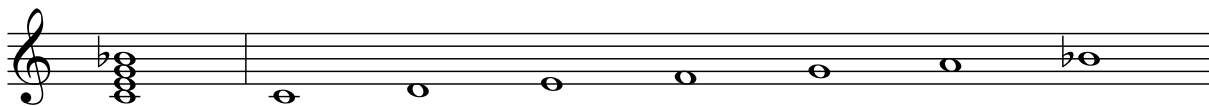
6, M6 — Major triad with added 6th.



6(add9), 69 — 6th with added 9th. This is sometimes notated as a slash chord in the form “6/9”.



7 — 7th.



7 \sharp 11 — 7th plus sharp 11th (9th omitted).



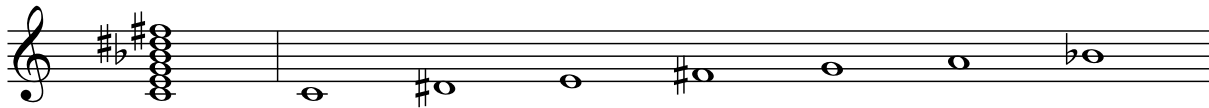
7 \sharp 5 \sharp 9 — 7th with sharp 5th and sharp 9th.



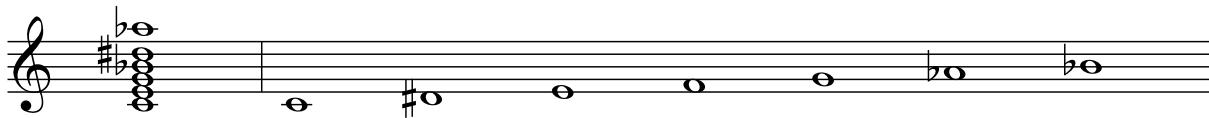
7[#]9, 7+9 — 7th with sharp 9th.



7[#]9[#]11 — 7th plus sharp 9th and sharp 11th.



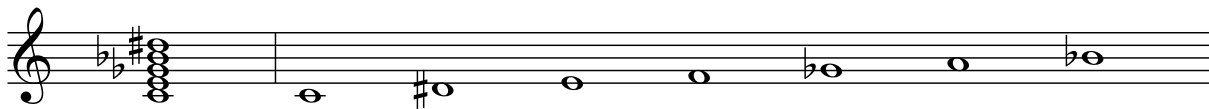
7[#]9^b13 — 7th with sharp 9th and flat 13th.



7^b5, 7-5 — 7th, flat 5.



7^b5[#]9 — 7th with flat 5th and sharp 9th.



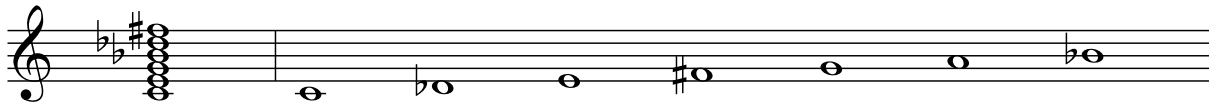
7^b5^b9, 7alt — 7th with flat 5th and flat 9th.



7^b9, 7-9 — 7th with flat 9th.



7^b9[#]11 — 7th plus flat 9th and sharp 11th.



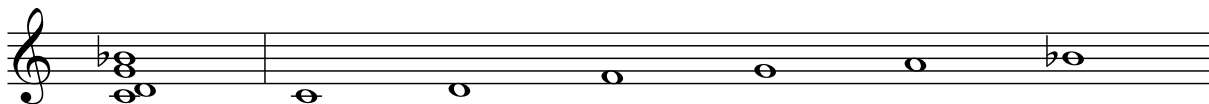
7omit3, 7(omit3) — 7th with unvoiced 3rd.



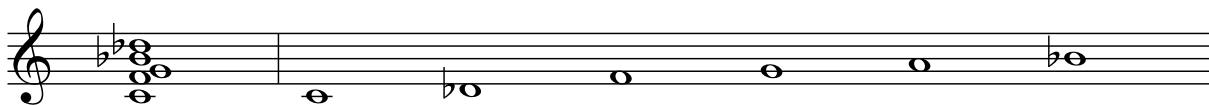
7sus, 7sus4 — 7th with suspended 4th, dominant 7th with 3rd raised half tone.



7sus2 — A sus2 with dominant 7th added.



7sus^b9 — 7th with suspended 4th and flat 9th.



9 — 7th plus 9th.



9#11 — 7th plus 9th and sharp 11th.



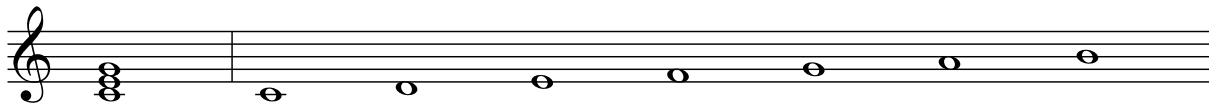
9#5, aug9, +9, 9+5 — 7th plus 9th with sharp 5th (same as aug9).



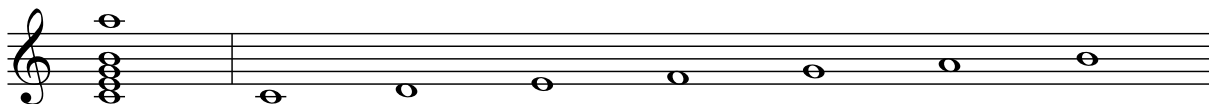
9b5, 9-5 — 7th plus 9th with flat 5th.



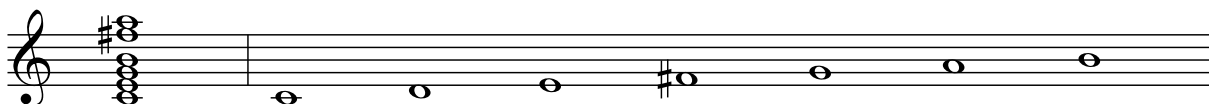
M — Major triad. This is the default and is used in the absense of any other chord type specification.



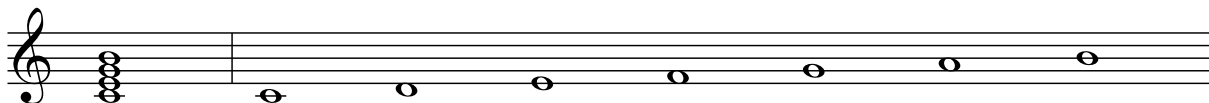
M13, maj13 — Major 7th (including 5th) plus 13th (9th and 11th not voiced).



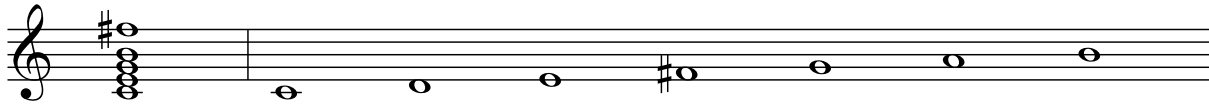
M13#11 — Major 7th plus sharp 11th and 13th (9th not voiced).



M7, maj7 — Major 7th.



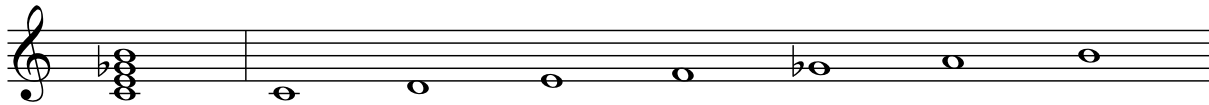
M7 \sharp 11 — Major 7th plus sharp 11th (9th omitted).



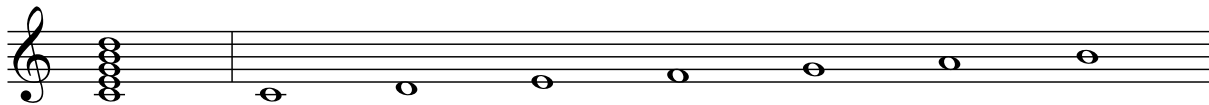
M7 \sharp 5, +M7, M7+5 — Major 7th with sharp 5th.



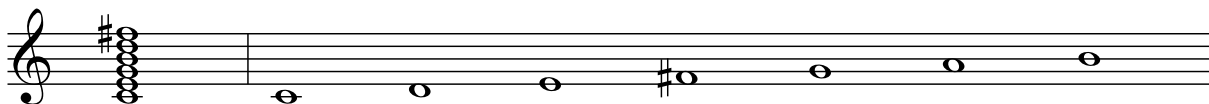
M7 \flat 5, M7-5 — Major 7th with a flat 5th.



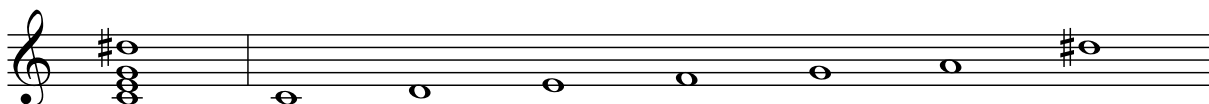
M9, maj9 — Major 7th plus 9th.



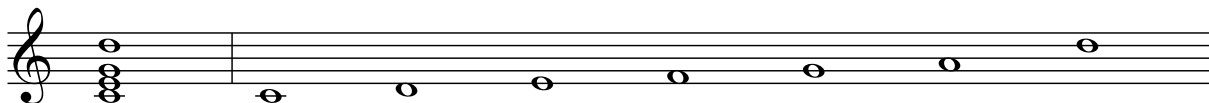
M9 \sharp 11 — Major 9th plus sharp 11th.



add \sharp 9, (add \sharp 9) — Major chord plus sharp 9th (no 7th.)



add9, (add9) — Major chord plus 9th (no 7th.)



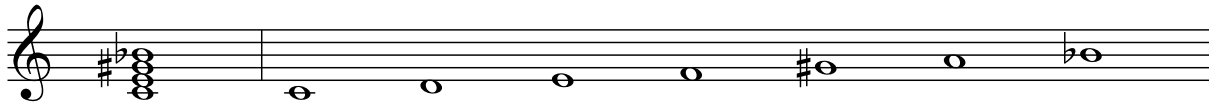
add \flat 9, (add \flat 9) — Major chord plus flat 9th (no 7th.)



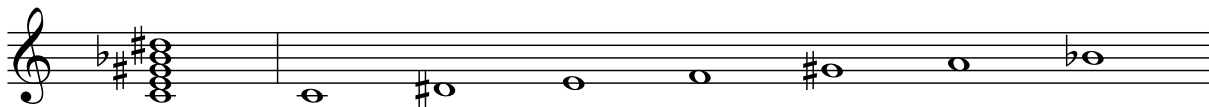
aug, +, \sharp 5 — Augmented triad.



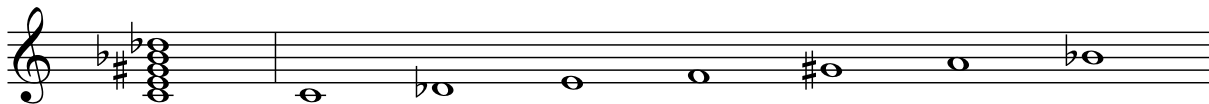
aug7, +7, 7+, 7 \sharp 5, 7+5 — An augmented chord (raised 5th) with a dominant 7th.



aug7 \sharp 9 — An augmented chord (raised 5th) with a dominant 7th and sharp 9th.



aug7 \flat 9, 7 \sharp 5 \flat 9 — An augmented chord (raised 5th) with a dominant 7th and flat 9th.



aug9M7, +9M7 — An augmented chord (raised 5th) with a major 7th and 9th.



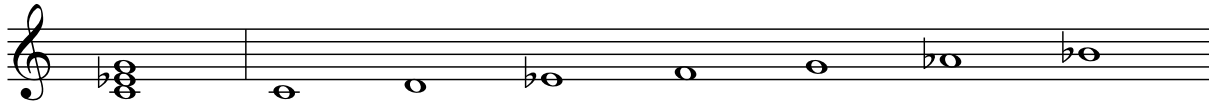
dim7, dim, $^{\circ}$ — Diminished seventh.



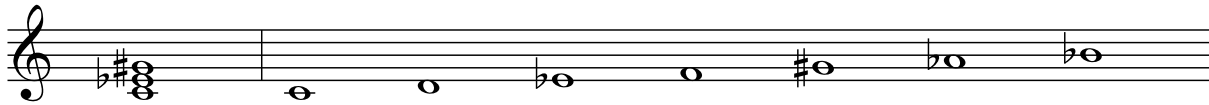
dim7(addM7), °(addM7) — Diminished triad with added Major 7th.



m — Minor triad.



m#5, m+5 — Minor triad with augmented 5th.



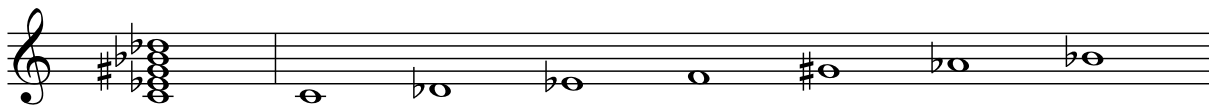
m(sus9), m(add9) — Minor triad plus 9th (no 7th).



m+7#9 — Augmented minor 7 plus sharp 9th.



m+7b9 — Augmented minor 7 plus flat 9th.



m+7b9#11 — Augmented minor 7th with flat 9th and sharp 11th.



m11 — 9th with minor 3rd, plus 11th.



m11b5 — Minor 7th with flat 5th plus 11th.



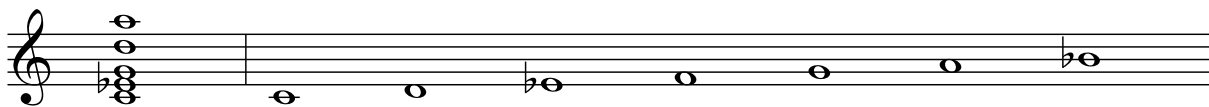
m13 — Minor 7th (including 5th) plus 13th (9th and 11th not voiced).



m6 — Minor 6th (flat 3rd plus a 6th).



m6(add9), m69 — Minor 6th with added 9th. This is sometimes notated as a slash chord in the form “m6/9”.



m7 — Minor 7th (flat 3rd plus dominant 7th).



m7[#]5 — Minor 7th with sharp 5th.



m7[#]9, m7([#]9) — Minor 7th with added sharp 9th.



m7(add11) — Minor 7th plus 11th.



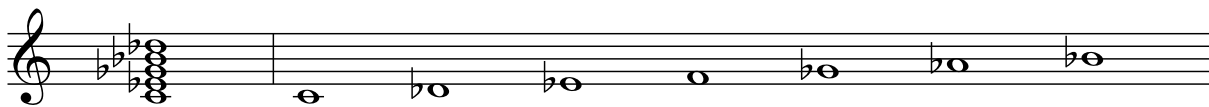
m7(add13) — Minor 7th plus 13th.



m7b5, m7-5, ø — Minor 7th, flat 5 (aka 1/2 diminished).



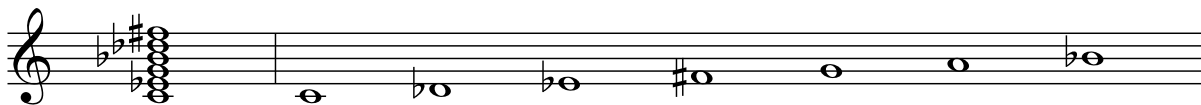
m7b5b9 — Minor 7th with flat 5th and flat 9th.



m7b9, m7(b9) — Minor 7th with added flat 9th.



m7 \flat 9 \sharp 11 — Minor 7th plus flat 9th and sharp 11th.



m7omit5, m7(omit5) — Minor 7th with unvoiced 5th.



m9 — Minor triad plus 7th and 9th.



m9 \sharp 11 — Minor 7th plus 9th and sharp 11th.



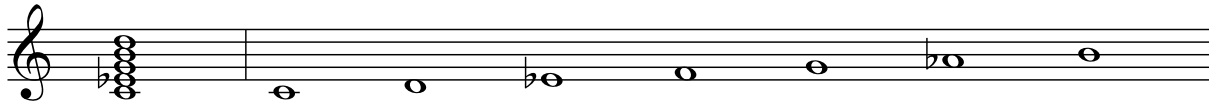
m9 \flat 5 — Minor triad, flat 5, plus 7th and 9th.



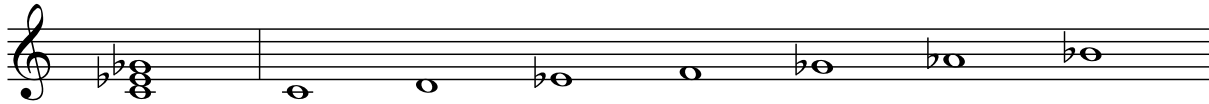
mM7, m(maj7), m+7, min(maj7), min \sharp 7, m \sharp 7 — Minor Triad plus Major 7th. You will also see this printed as “m(maj7)”, “m+7”, “min(maj7)” and “min \sharp 7” (which *MuA* accepts); as well as the *MuA* invalid forms: “-(Δ 7)”, and “min \flat 7”.



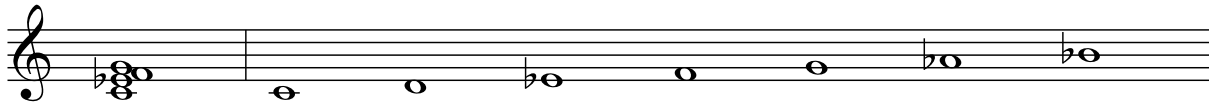
mM7(add9) — Minor Triad plus Major 7th and 9th.



m♭5, m(b5), °3, dim3 — Minor triad with flat 5th (aka dim).



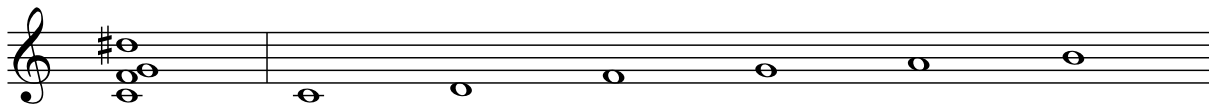
msus4 — Minor suspended 4th, minor triad plus 4th.



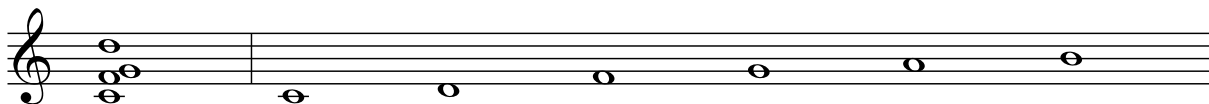
omit3add9, omit3(add9) — Triad: root, 5th and 9th.



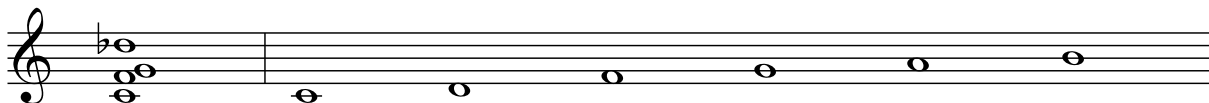
sus(add♯9) — Suspended 4th, major triad with the 3rd raised half tone plus sharp 9th.



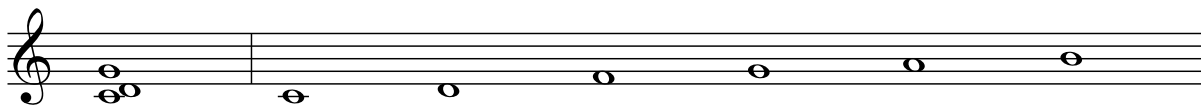
sus(add9) — Suspended 4th, major triad with the 3rd raised half tone plus 9th.



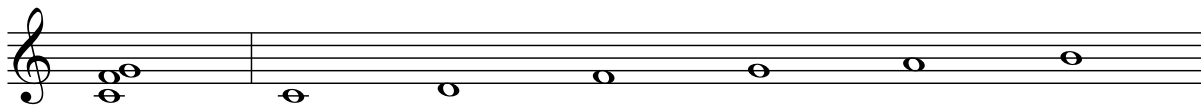
sus(add♭9) — Suspended 4th, major triad with the 3rd raised half tone plus flat 9th.



sus2 — Suspended 2nd, major triad with the major 2nd above the root substituted for 3rd.



sus4, sus — Suspended 4th, major triad with the 3rd raised half tone.



sus9, 9sus, 9sus4 — 7sus plus 9th.



Index of Chords

#5 9	7#5b9 9	M7(add13) 3	m+7b9#11 10
(b5) 2	7#5#9 4	M7+5 8	m+7#9 10
(addb9) 9	7#5 9	M7-5 8	m+7 13
(add#9) 8	7#9 5	M9 8	m11 11
(add9) 8	7#9b13 5	M9#11 8	m11b5 11
+7b9#11 2	7#9#11 5	ø 12	m13 11
+7 9	7(omit3) 6	°(addM7) 10	m6 11
+9M7 9	7+5 9	°3 14	m6(add9) 11
+9 7	7+9 5	° 9	m69 11
+M7 8	7+ 9		m7 11
+ 9	7-5 5	addb9 9	m7b5 12
	7-9 6	add#9 8	m7b5b9 12
	7alt 5	add9 8	m7b9 12
11 2	7omit3 6	aug 9	m7b9#11 13
11b9 3	7sus 6	aug7 9	m7#5 12
13 3	7susb9 6	aug7b9 9	m7#9 12
13b5 3	7sus2 6	aug7#9 9	m7(b9) 12
13b9 3	7sus4 6	aug9M7 9	m7(#9) 12
13#11 3		aug9 7	m7(add11) ... 12
13#9 3	9 6		m7(add13) ... 12
13sus 3	9b5 7	dim3 14	m7(omit5) 13
13susb9 4	9#11 7	dim7 9	m7-5 12
	9#5 7	dim7(addM7) 10	m7omit5 13
5 4	9+5 7	dim 9	m9 13
	9-5 7		m9b5 13
6 4	9sus4 15	m 10	m9#11 13
6(add9) 4	9sus 15	mb5 14	mM7 13
69 4		m#5 10	mM7(add9) .. 14
	M 7	m#7 13	maj13 7
7 4	M13 7	m(b5) 14	maj7 7
7b5 5	M13#11 7	m(add9) 10	maj9 8
7b5b9 5	M6 4	m(maj7) 13	min#7 13
7b5#9 5	M7 7	m(sus9) 10	min(maj7) 13
7b9 6	M7b5 8	m+5 10	msus4 14
7b9#11 6	M7#11 8	m+7b9 10	
7#11 4	M7#5 8		

omit3(add9) .. 14	sus(add\flat9) ... 14	sus2 15	sus 15
omit3add9 ... 14	sus(add\sharp9) ... 14	sus4 15	
	sus(add9) 14	sus9 15	