Musical MIDI Accompaniment

Chord Reference Manual

This document was prepared from version 15.09 of MMA.

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Chapter 1

Chord Reference

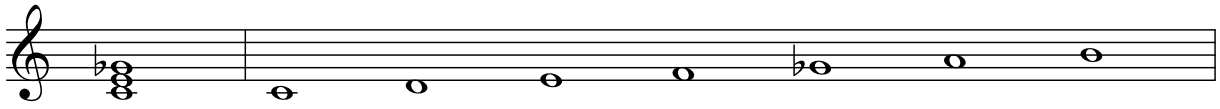
This document is a reference to the chords and scales use in *MMA*. It has been generated directly from the module `chordtable.py` in the *MMA* sources. Each section shows the chord name, a brief description, the chord notes for a "C" chord, and the associated scale tones. These chords and scales are used in *MMA* 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 *MMA* source file. Read the *MMA* Reference Guide if you don't understand this.

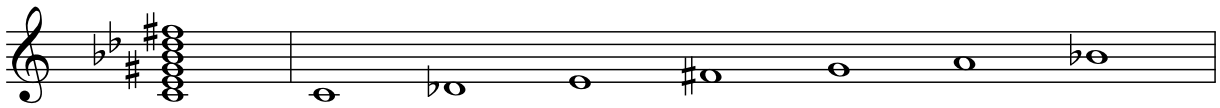
This document was prepared as a reference to verify the correctness of the chords and scales used in *MMA*. If you find an error, please let the author know.

MMA defines 93 unique chords plus 61 aliases. Chords used in *MMA* via aliased names are listed after the main name.

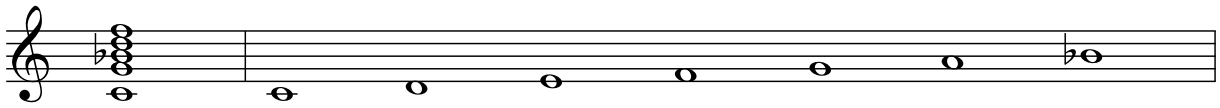
(♭5) — Major triad with flat 5th.



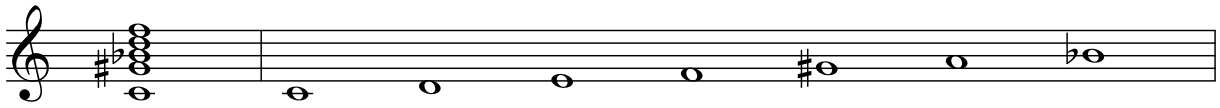
+7♭9♯11 — Augmented 7th with flat 9th and sharp 11th.



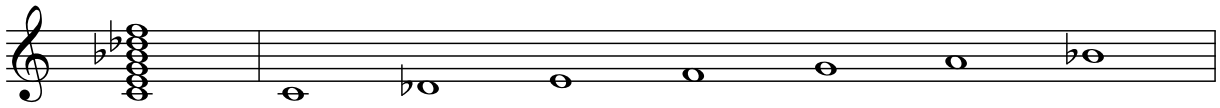
11 — 9th chord plus 11th (3rd not voiced).



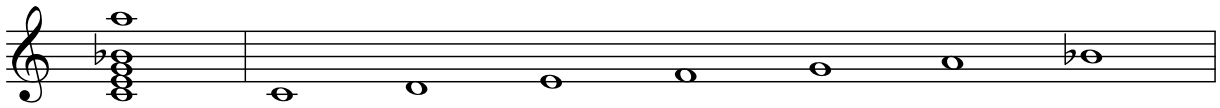
11+, 11♯5 — Augmented 11th (sharp 5).



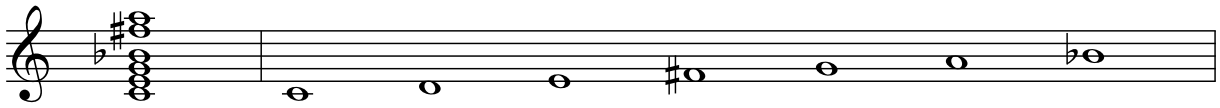
11♭9 — 7th chord plus flat 9th and 11th.



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

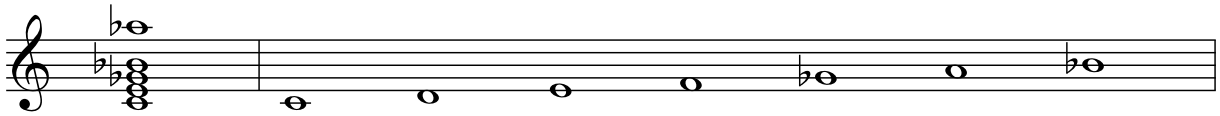


13♯11 — 7th plus sharp 11th and 13th (9th not voiced).

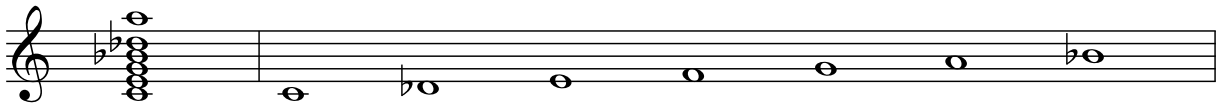


13♯9 — 7th (including 5th) plus 13th and sharp 9th (11th not voiced).

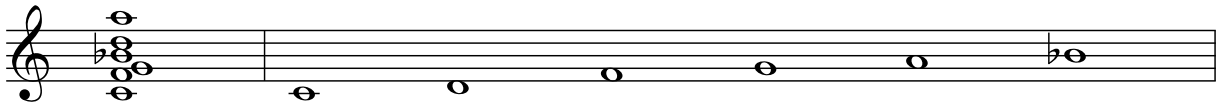
13♭5 — 7th with flat 5th, plus 13th (the 9th and 11th are not voiced).



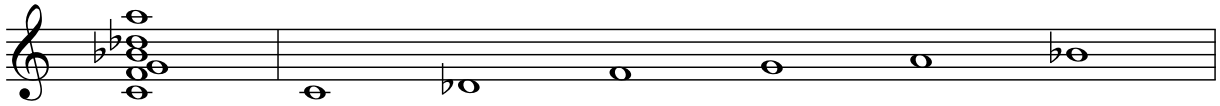
13♭9, M7(add13) — 7th (including 5th) plus 13th and flat 9th (11th not voiced).



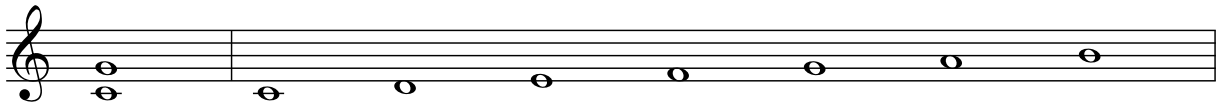
13sus — 7sus, plus 9th and 13th



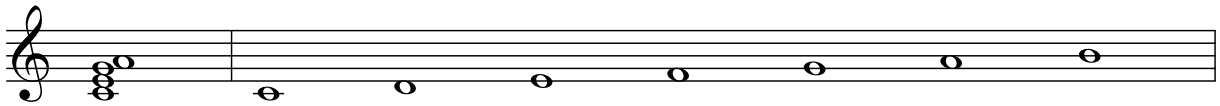
13sus♭9 — 7sus, plus flat 9th and 13th



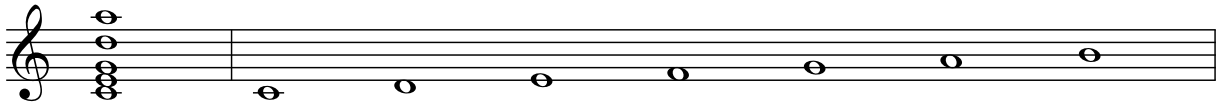
5 — Altered Fifth or Power Chord; root and 5th only.



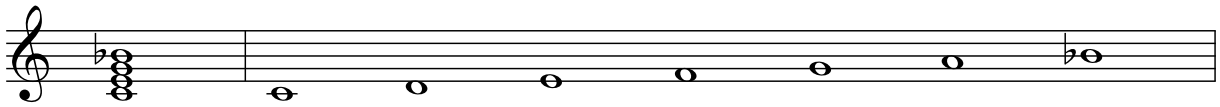
6, M6 — Major tiad with added 6th.



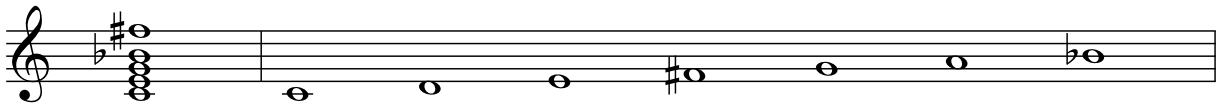
6(add9), 69 — 6th with added 9th. This is sometimes notated as a slash chord in the form “6/9”.



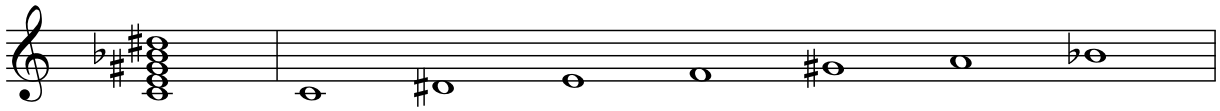
7 — 7th.



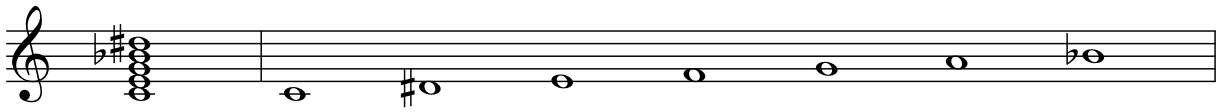
7♯11 — 7th plus sharp 11th (9th omitted).



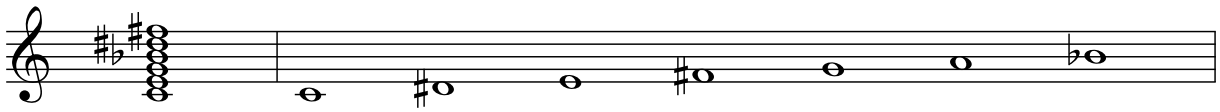
7♯5♯9 — 7th with sharp 5th and sharp 9th.



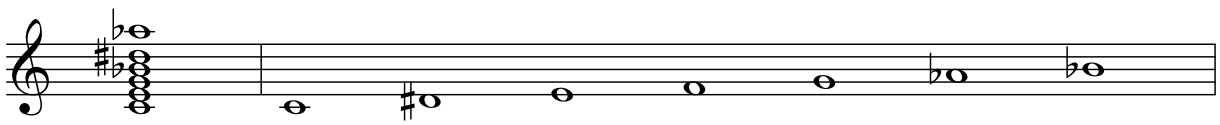
7♯9, 7+9 — 7th with sharp 9th.



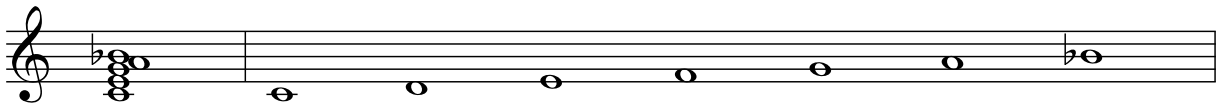
7♯9♯11 — 7th plus sharp 9th and sharp 11th.



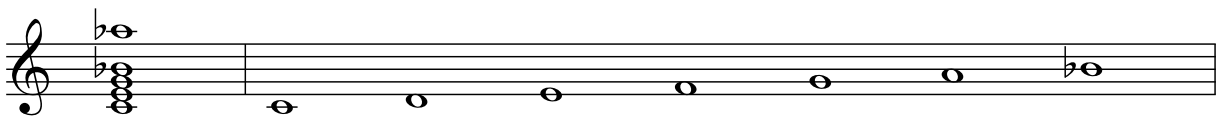
7♯9♭13 — 7th with sharp 9th and flat 13th.



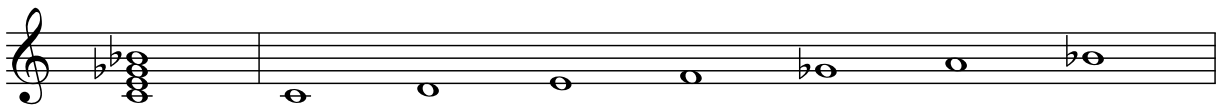
7(6) — 7th with added 6th.



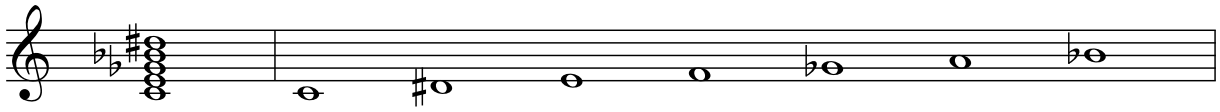
7♭13 — 7th (including 5th) plus flat 13th (the 9th and 11th are not voiced).



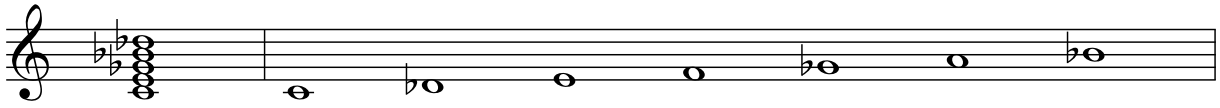
7♭5, 7-5 — 7th, flat 5.



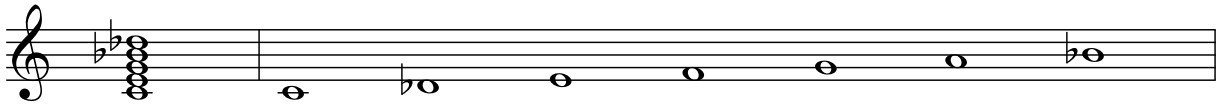
7♭5♯9 — 7th with flat 5th and sharp 9th.



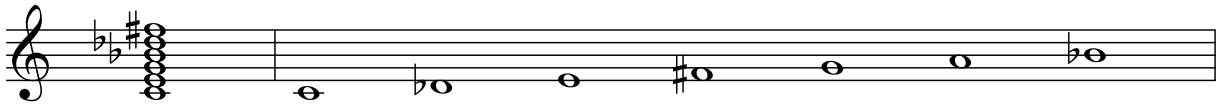
7♭5♭9, 7alt — 7th with flat 5th and flat 9th.



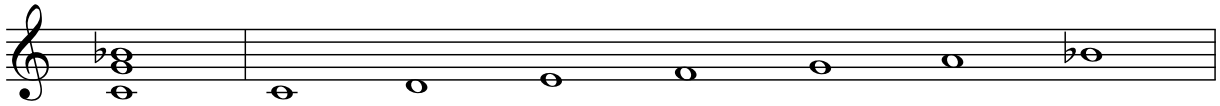
7♭9, 7-9 — 7th with flat 9th.



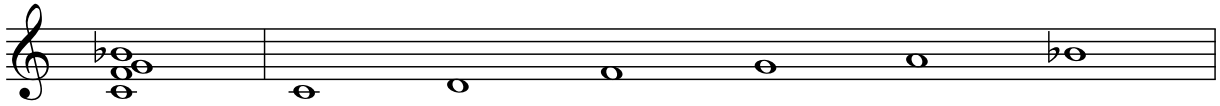
7♭9♯11 — 7th plus flat 9th and sharp 11th.



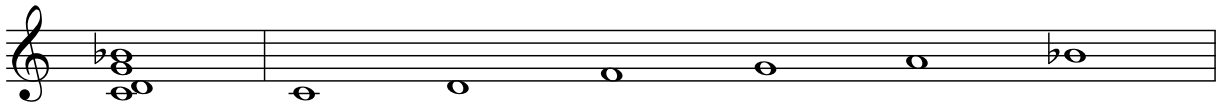
7omit3, 7(omit3) — 7th with unvoiced 3rd.



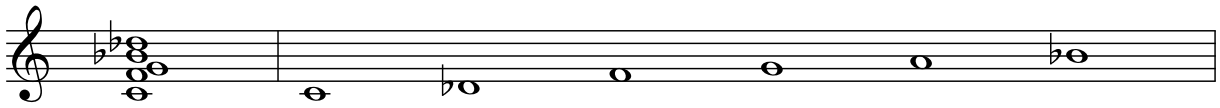
7sus, 7sus4 — 7th with suspended 4th, dominant 7th with 3rd raised half tone.



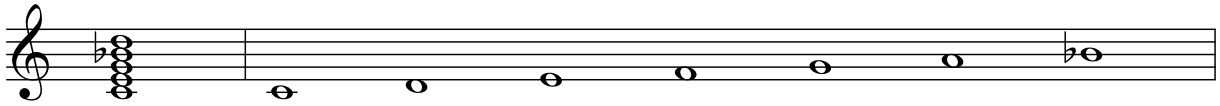
7sus2 — A sus2 with dominant 7th added.



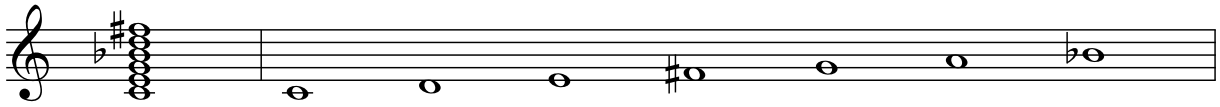
7sus♭9, 7♭9sus — 7th with suspended 4th and flat 9th.



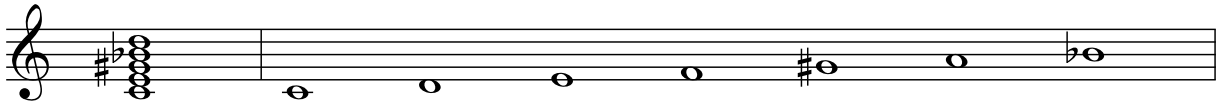
9 — 7th plus 9th.



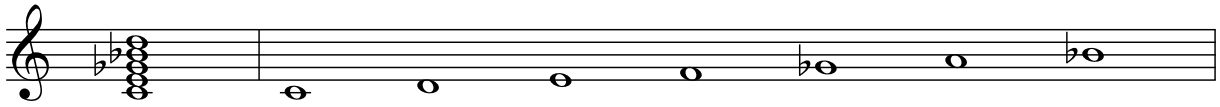
9♯11 — 7th plus 9th and sharp 11th.



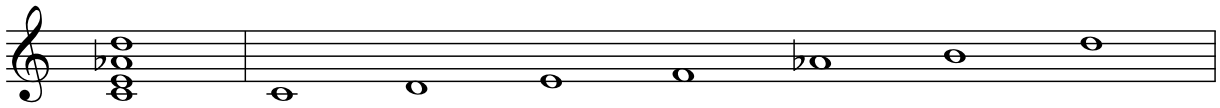
9♯5, aug9, 9+, +9, 9+5 — 7th plus 9th with sharp 5th (same as aug9).



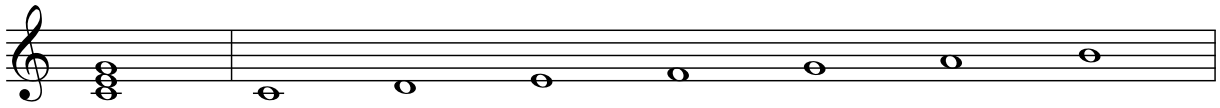
9♭5, 9-5 — 7th plus 9th with flat 5th.



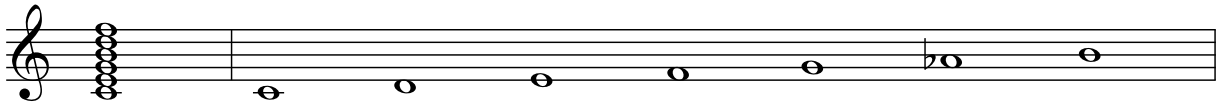
9♭6 — 9th with flat 6 (no 5th or 7th).



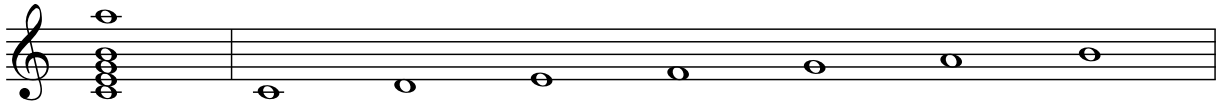
M — Major triad. This is the default and is used in the absence of any other chord type specification.



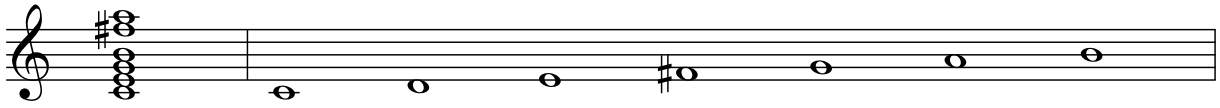
M11 — Major 9th plus 11th.



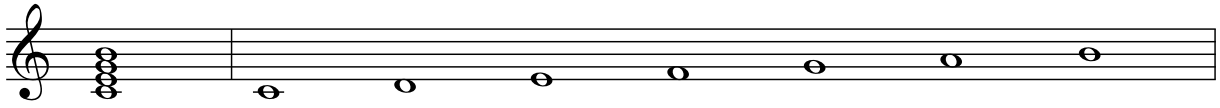
M13, maj13 — Major 7th (including 5th) plus 13th (9th and 11th not voiced).



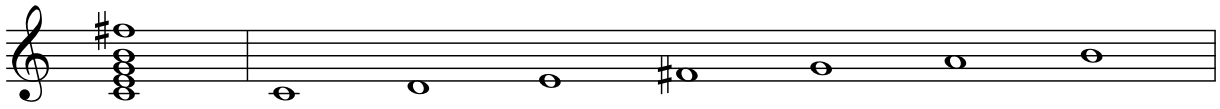
M13♯11 — Major 7th plus sharp 11th and 13th (9th not voiced).



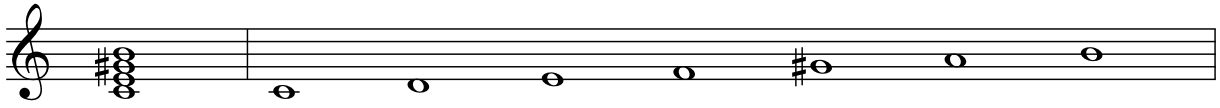
M7, maj7 — Major 7th.



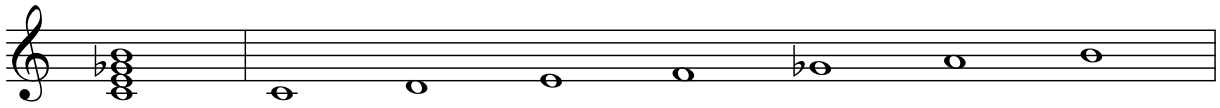
M7♯11 — Major 7th plus sharp 11th (9th omitted).



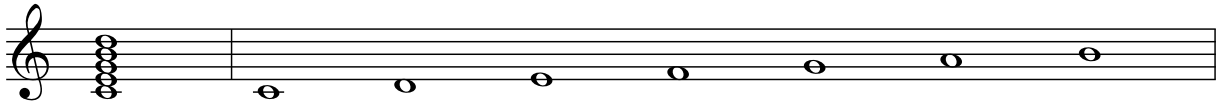
M7♯5, +M7, M7+5 — Major 7th with sharp 5th.



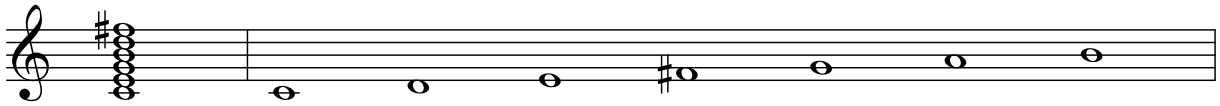
M7♭5, M7-5 — Major 7th with a flat 5th.



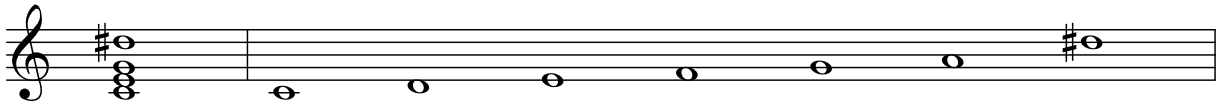
M9, maj9 — Major 7th plus 9th.



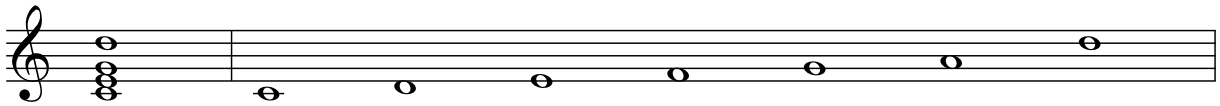
M9♯11 — Major 9th plus sharp 11th.



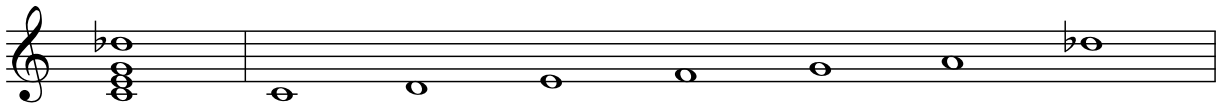
add♯9, (add♯9) — Major chord plus sharp 9th (no 7th.)



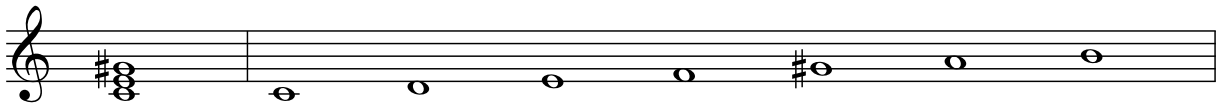
add9, (add9) — Major chord plus 9th (no 7th.)



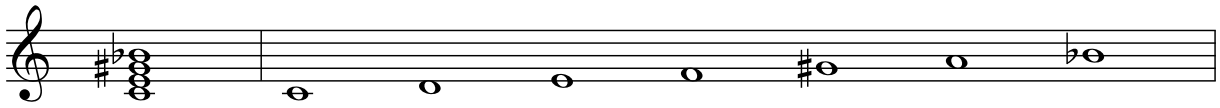
add♭9, (add♭9) — Major chord plus flat 9th (no 7th.)



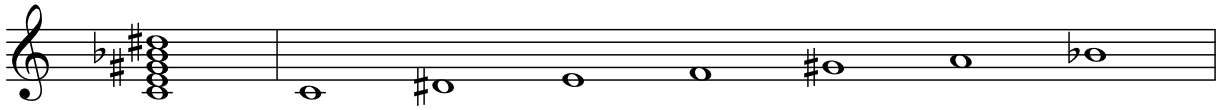
aug, +, ♯5 — Augmented triad.



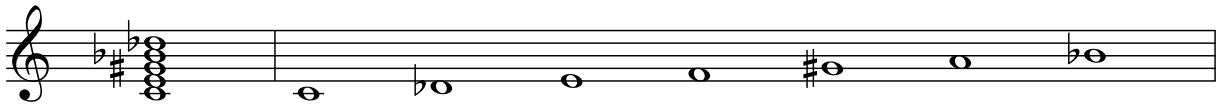
aug7, +7, 7+, 7♯5, 7+5 — An augmented chord (raised 5th) with a dominant 7th.



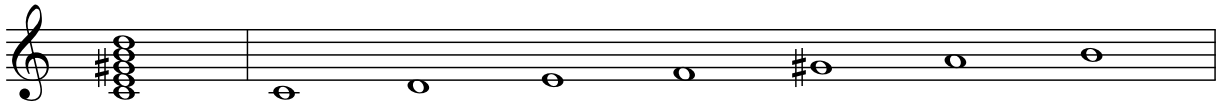
aug7♯9, +7♯9 — An augmented chord (raised 5th) with a dominant 7th and sharp 9th.



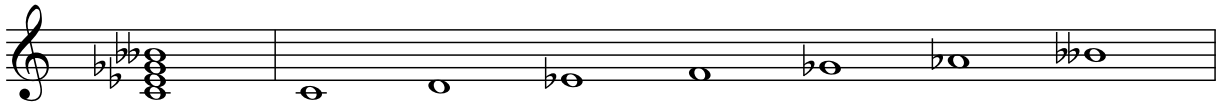
aug7♭9, +7♭9, 7♯5♭9 — An augmented chord (raised 5th) with a dominant 7th and flat 9th.



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

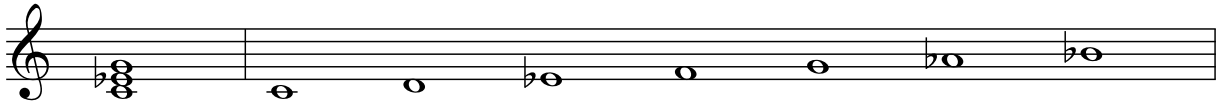


dim7, dim, ° — Diminished seventh.

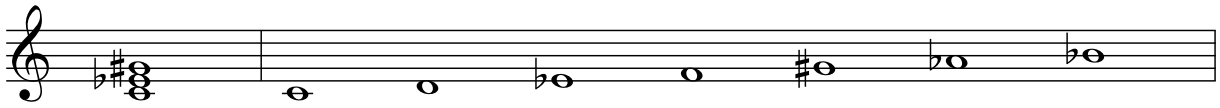


dim7(addM7), °(addM7) — Diminished tirad with added Major 7th.

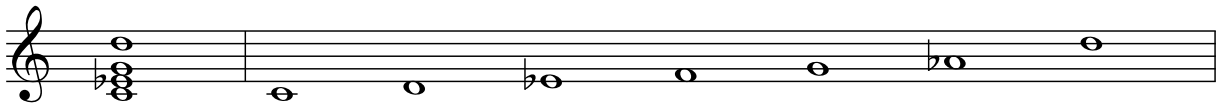
m — Minor triad.



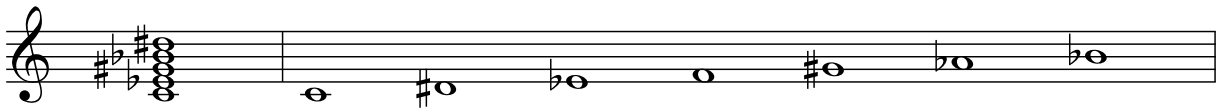
m♯5, m+5, m+ — Minor triad with augmented 5th.



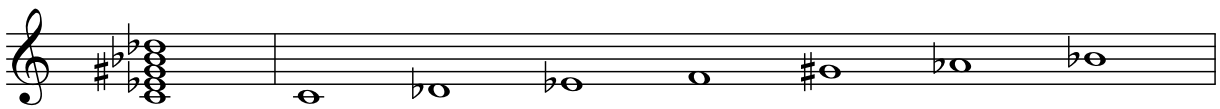
m(sus9), m(add9) — Minor triad plus 9th (no 7th).



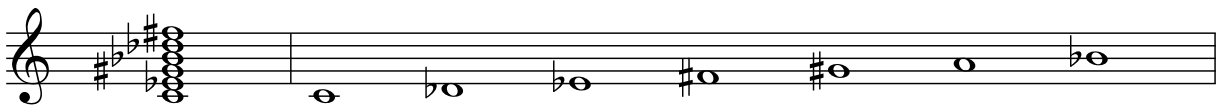
m+7♯9 — Augmented minor 7 plus sharp 9th.



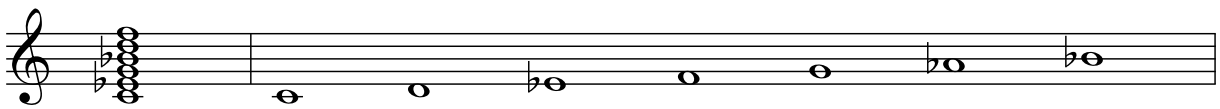
m+7♭9 — Augmented minor 7 plus flat 9th.



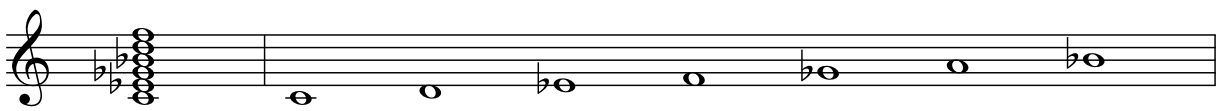
m+7♭9♯11 — Augmented minor 7th with flat 9th and sharp 11th.



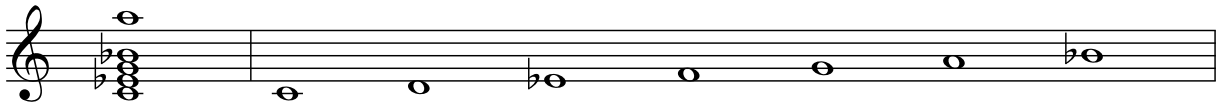
m11 — 9th with minor 3rd, plus 11th.



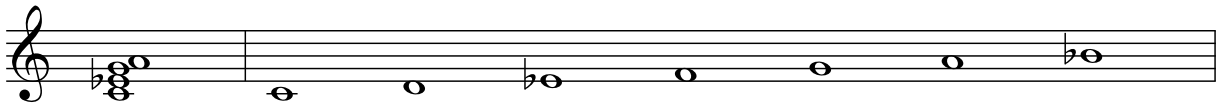
m11♭5 — Minor 7th with flat 5th plus 11th.



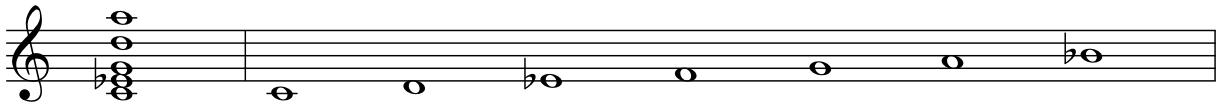
m13 — Minor 7th (including 5th) plus 13th (9th and 11th not voiced).



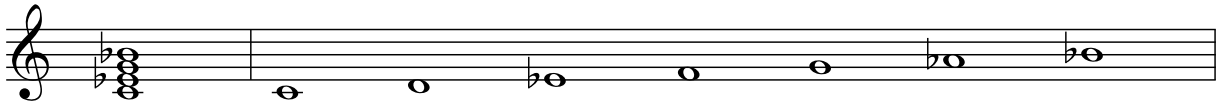
m6 — Minor 6th (flat 3rd plus a 6th).



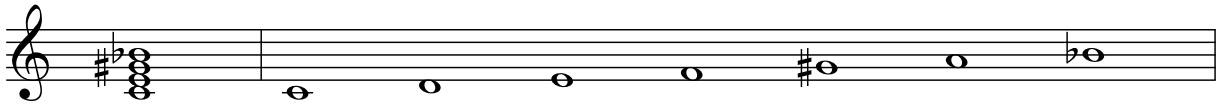
m6(add9), m69 — Minor 6th with added 9th. This is sometimes notated as a slash chord in the form "m6/9".



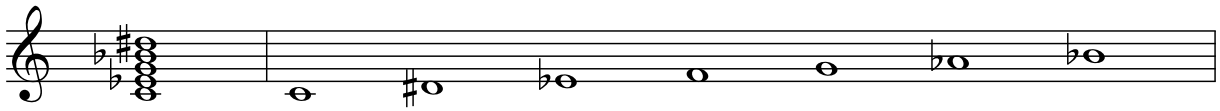
m7 — Minor 7th (flat 3rd plus dominant 7th).



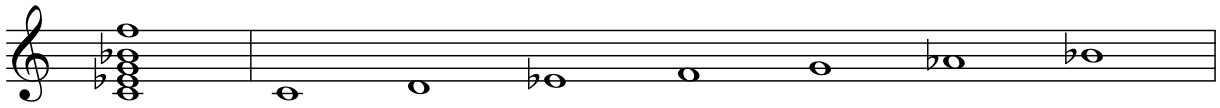
m7♯5 — Minor 7th with sharp 5th.



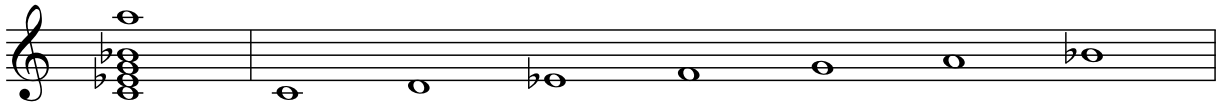
m7♯9, m7(♯9) — Minor 7th with added sharp 9th.



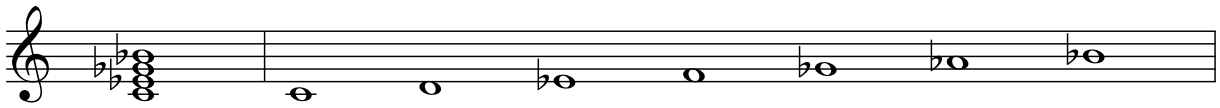
m7(add11) — Minor 7th plus 11th.



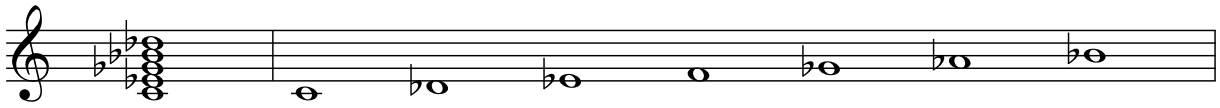
m7(add13) — Minor 7th plus 13th.



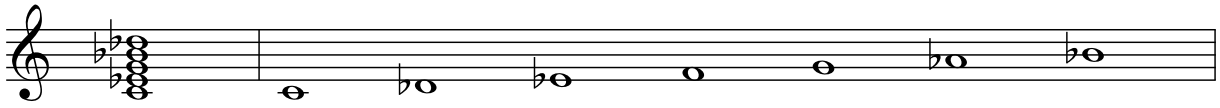
m7♭5, m7-5, ø — Minor 7th, flat 5 (aka 1/2 diminished).



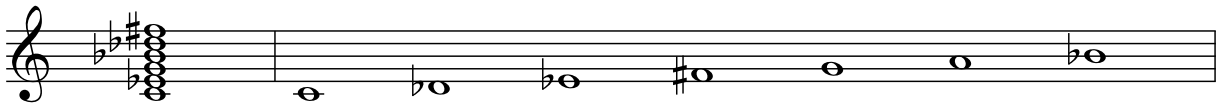
m7♭5♭9 — Minor 7th with flat 5th and flat 9th.



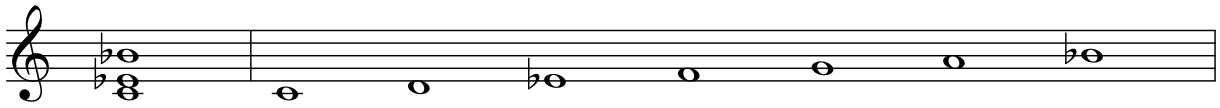
m7♭9, m7(♭9) — Minor 7th with added flat 9th.



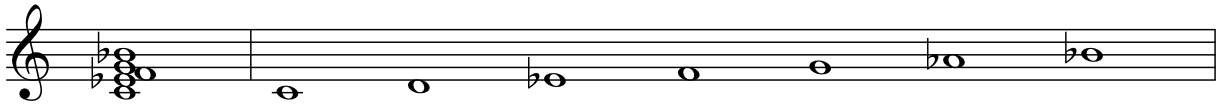
m7♭9♯11 — Minor 7th plus flat 9th and sharp 11th.



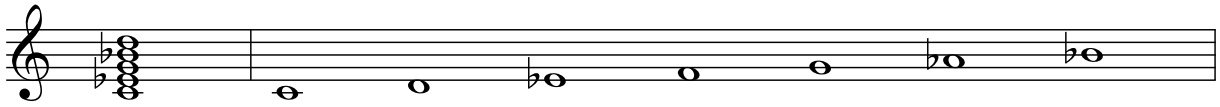
m7omit5, m7(omit5) — Minor 7th with unvoiced 5th.



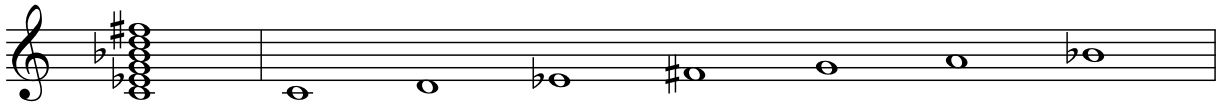
m7sus4, m7sus — Minor suspended 4th, minor triad plus 4th and dominant 7th.



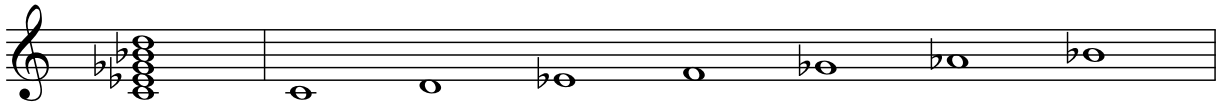
m9 — Minor triad plus 7th and 9th.



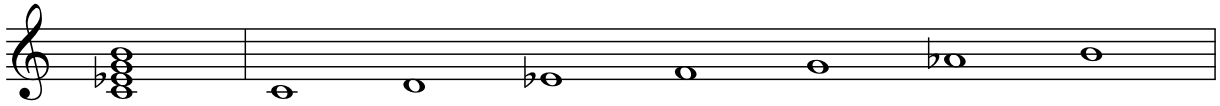
m9♯11 — Minor 7th plus 9th and sharp 11th.



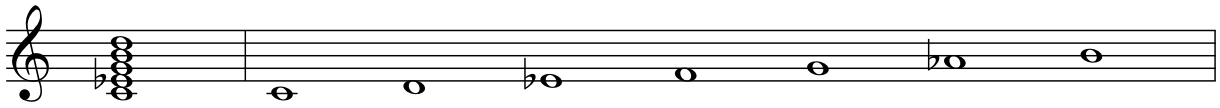
m9♭5 — Minor triad, flat 5, plus 7th and 9th.



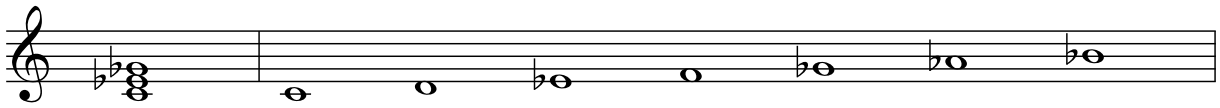
mM7, m(maj7), m+7, min(maj7), min♯7, m♯7 — Minor Triad plus Major 7th. You will also see this printed as "m(maj7)", "m+7", "min(maj7)" and "min♯7" (which *MtA* accepts); as well as the *MtA invalid* forms: "-(Δ7)", and "min♮7".



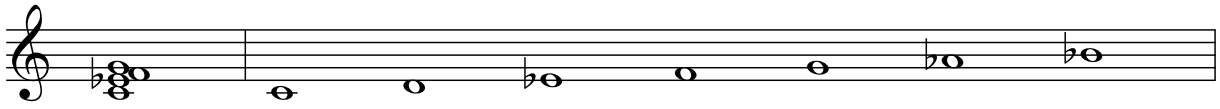
mM7(add9) — Minor Triad plus Major 7th and 9th.



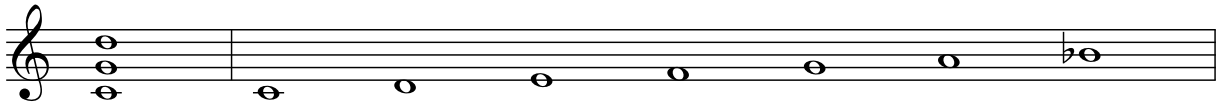
m♭5, m(♭5), °3, dim3 — Minor triad with flat 5th (aka dim).



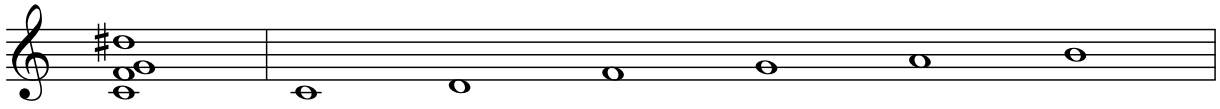
msus4, msus — Minor suspended 4th, minor triad plus 4th.



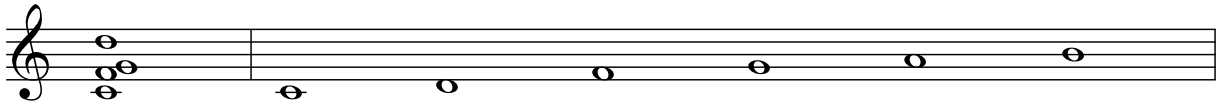
omit3add9, omit3(add9) — Triad: root, 5th and 9th.



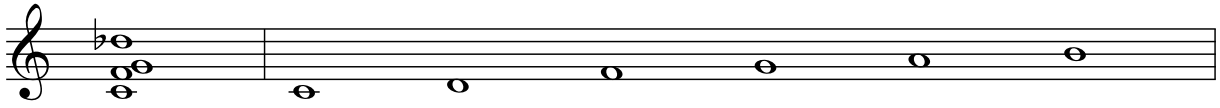
sus(add♯9) — Suspended 4th, major triad with the 3rd raised half tone plus sharp 9th.



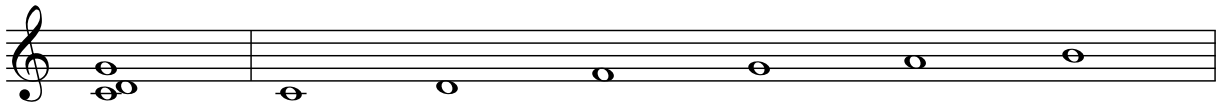
sus(add9) — Suspended 4th, major triad with the 3rd raised half tone plus 9th.



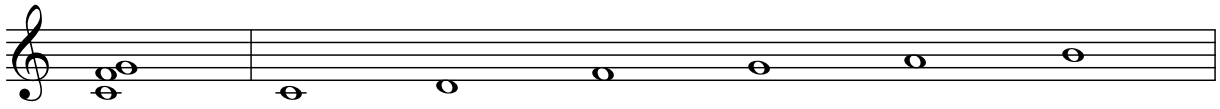
sus(add♭9) — Suspended 4th, major triad with the 3rd raised half tone plus flat 9th.



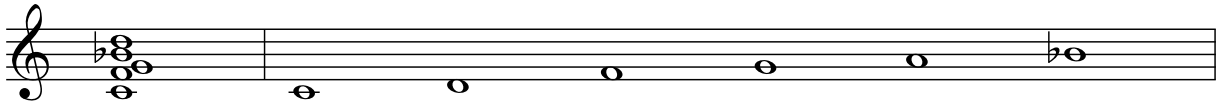
sus2 — Suspended 2nd, major triad with the major 2nd above the root substituted for 3rd.



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



sus9, 9sus, 9sus4 — 7sus plus 9th.



Appendix A

Index of Chords

♯5 9

(♭5) 2
(add♭9) 9
(add♯9) 9
(add9) 9

+7♭9♯11 2
+7♭9 10
+7♯9 10
+7 10
+9M7 10
+9 7
+M7 8
+ 9

11 2
11♭9 3
11♯5 3
11+ 3
13 3
13♭5 3
13♭9 3
13♯11 3
13♯9 3
13sus 4
13sus♭9 4

5 4

6 4
6(add9) 4
69 4

7 4
7♭13 5
7♭5 5
7♭5♭9 6
7♭5♯9 6
7♭9 6
7♭9♯11 6
7♭9sus 7
7♯11 4
7♯5♭9 10
7♯5♯9 5
7♯5 10
7♯9 5
7♯9♭13 5
7♯9♯11 5
7(6) 5
7(omit3) 6
7+5 10
7+9 5
7+ 10
7-5 5
7-9 6
7alt 6
7omit3 6
7sus 6
7sus♭9 7
7sus2 7
7sus4 6

9 7
9♭5 7
9♭6 7
9♯11 7
9♯5 7
9+5 7
9+ 7
9-5 7
9sus4 16
9sus 16

M 8
M11 8
M13 8
M13♯11 8
M6 4
M7 8
M7♭5 9
M7♯11 8
M7♯5 8
M7(add13) 3
M7+5 8
M7-5 9
M9 9
M9♯11 9

ø 13
°(addM7) 10
°3 15
° 10

add♭9 9
add♯9 9
add9 9
aug 9
aug7 10
aug7♭9 10
aug7♯9 10
aug9M7 10
aug9 7

dim3 15
dim7 10
dim7(addM7) 10
dim 10

m 10
m♭5 15
m♯5 11
m♯7 14
m(♭5) 15
m(add9) 11
m(maj7) 14
m(sus9) 11
m+5 11
m+7♭9 11
m+7♭9♯11 11
m+7♯9 11
m+7 14
m+ 11
m11 11
m11♭5 11
m13 12
m6 12
m6(add9) 12
m69 12
m7 12
m7♭5 13
m7♭5♭9 13
m7♭9 13
m7♭9♯11 13
m7♯5 12
m7♯9 12
m7(♭9) 13
m7(♯9) 12
m7(add11) . . . 13
m7(add13) . . . 13
m7(omit5) 14
m7-5 13
m7omit5 14
m7sus4 14
m7sus 14
m9 14

m9♭5 14
m9♯11 14
mM7 14
mM7(add9) . . 15
maj13 8
maj7 8
maj9 9
min♯7 14
min(maj7) 14
msus4 15
msus 15
omit3(add9) . . 15
omit3add9 . . . 15
sus(add♭9) . . . 15
sus(add♯9) . . . 15
sus(add9) 15
sus2 16
sus4 16
sus9 16
sus 16