

The All-Interval Twelve-Note Chords of Elliott Carter

Vertical and Linear Palindromes – Matryoshka Form

AITN Chords in Theory and Analysis

The following document contains a short definition, analysis and clarification of Elliott Carter's All-Interval Twelve-Note (AITN) Chords. This paper emerged from a period of contextual, analytical and practical research in planning and preparation for a large orchestral composition. This line of research has led the composer to studies into non-linear acoustics, chaotic pairs, fractals and musical pitch palindromes.¹

Pitch palindromes, and the potential for exploring palindromes within palindromes, further informs the composer's evolving concept of Matryoshka Form² and the theories of self-similar repetition and replication which emerged from recent consideration of organising musical pitch and sub-components of internal architecture and rhythm in relation to the study of fractals and chaos theory.

There are two types of AITN Chords: Symmetrically Inverted (SI AITN) and Parallel Inverted (PI AITN). Carter's AITN Chords are all self-contained pitch palindromes within palindromes.

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¹ A word or phrase, the letters (or components) of which, when taken in reverse order read the same.

² A design paradigm indicating the existence of object within similar object, originating from the Russian 'nested' dolls design. It is important to note that Matryoshka dolls are traditionally hand painted. They are not exact replications, but self-similar replications. Their subtle differences make each unique ...

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There are two types of AITN Chords: Parallel Inverted (PI AITN) and Symmetrically Inverted (SI AITN). The Symmetrically Inverted (SI) version was chosen as the primary resource for this preparatory analysis because it created a more symmetrical palindrome in score form (melodic and harmonic contours)³.

Carter uses four Hexachord types as the parent chords for his SI AITN:

1. Hexachord 6-1 (012345) <543210> (Carter 4): Chromatic Hexamirror/1st ord. All combinatorial (P6, Ib, RI5)
2. Hexachord 6-8 (023457) <343230> (Carter 5): 1st ord. All combinatorial (P6, Ib, RI5)
3. Hexachord 6-14 (013458) <323430> (Carter 3): Combinatorial P (6)
Hexachord 6-14b (034578) <323430> Combinatorial P (6) (6-14 is the prime form)
4. Hexachord 6-32 (024579) <143250> (Carter 6): Arezzo major Diatonic (2-2-1-2-2-3), major hexamirror, quartal hexamirror, 1st ord. All-combinatorial P (6), I (3), RI (9)

Note:

- i. Hexachord 6-1* (012345) is an all-combinatorial chromatic tritone. The total dissonance should be handled with care (second movement material).
- ii. Hexachord 6-14 (013458/034578) is first movement (and reprise) material.
- iii. Hexachord 6-32* (024579) has tonal/modal origins. This is in keeping with previous research into equidistant and consonant chromatic pitch organisation (third movement material).
- iv. The Complement and Inversion of Hexachords 6-1, 6-14 and 6-32 produces the same Hexachords: They are all palindromes (combinatorial).

All AITN Chords create pitch palindromes, but SI AITN Chords 1, 3, 58 and 60 are the only SI AITN to subsume the All-Triad Hexachord (ATH) in prime form:

³ Carter lists 88 but does not include inversions. Researchers have identified further alternates [Link Chords]

ATH 6-z17/6-z43b (012478) <322332> Complement: 6-z17B/6-z43 (014678) <322332>

SI AITN 1: 27431 6 E985T 27431 6 E985T (6-14)
SI AITN 3: 27491 6 E 385T 27491 6 E385T (6-1)
SI AITN58: 21497 6 5 38ET 21497 6 538ET (6-14)
SI AITN60: 21437 6 5 98ET 21437 6 598ET (6-32)

Note:

- i. SI AITN 1 and 58 share the same parent Hexachord 6-14 (013458) and therefore share a palindromic relationship in their construction.
- ii. SI AITN 3 is conceived from the parent Hexachord 6-1 (equidistant total dissonance).
- iii. SI AITN 58 shares the same parent hexachord as SI AITN 1.
- iv. SI AITN 60 has the parent Hexachord 6-32* (024579). Both the hexachord and the SI AITN has modal/tonal foundations.

Brief Explanation of AITN Theory:

The lowest pitch of the AITN chord is always considered as 0 or Prime. One can also use AITN in retrograde inversion (not listed by Carter), which essentially flips the palindrome. The RI can also be used alongside its counterpart to essentially double its length (verticality). In SI AITN 1 (below), the 1st interval is 2 semi-tones; the 2nd interval is 7 semi-tones and the 3rd interval is 4. If we start with the pitch of C, then we have: C – D – A – C[#]

SI AITN 1: 274316E985T (6-14)	SI AITN 1 RI: T589E613472 (6-14)
SI AITN 3: 274916E385T (6-1)	SI AITN 3 RI: T583E619472 (6-1)
SI AITN58: 214976538ET (6-14)	SI AITN58 RI: TE835679412 (6-14)
SI AITN60: 214376598ET (6-32)	SI AITN60 RI: TE895673412 (6-32)

The AITN always pivots around the tritone interval (interval class 6 inverts to class 6)

SI AITN 1: 27431 6 E985T (6-14)	SI AITN 1 RI: T589E 6 13472 (6-14)
SI AITN 3: 27491 6 E385T (6-1)	SI AITN 3 RI: T583E 6 19472 (6-1)
SI AITN58: 21497 6 538ET (6-14)	SI AITN58 RI: TE835 6 79412 (6-14)
SI AITN60: 21437 6 598ET (6-32)	SI AITN60 RI: TE895 6 73412 (6-32)

SI AITN Chords 1, 3, 58 and 60 all contain the All-Triad Hexachord (ATH) 6-z17: 012478/014678 (twice) in prime form. The ATH then subsume the All-Interval Tetrachords (AIT) 4-z15: 0146/0256 and 4-z29: 0137/0467: Palindromic Matryoshka Form ...

SI AITN 1: 27431 6 E985T – 27431 6 E985T (6-14): Subsumes 6-Z17 twice

Literal Spelling: 029145 ET7386 = C – D – A – C# – E – F – B – A# – G – D# – G# – F#

Literal Spelling: 029145 ET7386 = C – D – A – C# – E – F – B – A# – G – D# – G# – F#

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

Note: SI AITN 1 and 58 share the same parent Hexachord 6-14 (013458).

SI AITN 3: 27491 6 E385T/27491 6 E385T (6-1) Subsumes 6-Z17 twice

Literal Spelling: 0291TE 547386 = C – D – A – C# – A# – B – F – E – G – D# – G# – F#

Literal Spelling: 0291TE 547386 = C – D – A – C# – A# – B – F – E – G – D# – G# – F#

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

Note: The parent hexachord for SI AITN 3 (6-1) is a chromatic tritone, so one can presume this will dissonant and chromatic material.

SI AITN58: 21497 6 538ET – 21497 6 538ET (6-14) Subsumes 6-Z17 twice

Literal Spelling: 02374E 5T1986 = C – D – D[#] – G – E – B – F – B^b – D^b – A – G[#] – F[#]

Literal Spelling: 02374E 5T1986 = C – D – D[#] – G – E – B – F – B^b – D^b – A – G[#] – F[#]

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

Note: SI AITN 1 and 58 share the same parent Hexachord 6-14 (013458).

SI AITN60: 21437 6 598ET – 21437 6 598ET (6-32) Subsumes 012478 twice

Literal Spelling: 0237T5 E41986 = C – D – E^b – G – B^b – F – B – E – C[#] – A – G[#] – F[#]

Literal Spelling: 0237T5 E41986 = C – D – E^b – G – B^b – F – B – E – C[#] – A – G[#] – F[#]

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

Note: The parent hexachord for SI AITN 60: Hexachord 6-32 (024579) has modal/tonal origins and is also closely related to 5-35 (Major Pentatonic) and 7-35 (Modal/Tonal system). 7-35 subsumes and is complemented by 5-35.

List of Pitch-class Sets

SI AITN Chord 1

Literal Spelling: C – D – A – C[#] – E – F – B – A[#] – G – D[#] – G[#] – F[#] – C
27431 6 E985T (6-14)

SI AITN 1 – Trichords:

C	D	A	025	3-7	<011010>	Incomplete minor seventh Chord (035)
D	A	C [#]	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
A	C [#]	E	037	3-11	<001110>	Major/Minor Chord (047)
C [#]	E	F	014	3-3	<101100>	Major-minor Trichord 1 (034)
E	F	B	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
F	B	A [#]	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
B	A [#]	G	014	3-3	<101100>	Major-minor Trichord 1 (034)
A [#]	G	D [#]	037	3-11	<001110>	Major/Minor Chord (047)
G	D [#]	G [#]	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
D [#]	G [#]	F [#]	025	3-7	<011010>	Incomplete minor seventh Chord (035)
G [#]	F [#]	C	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
F [#]	C	D	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
C	D	A	025	3-7	<011010>	Incomplete minor seventh Chord (035)

Note: 3-12* (048) is not subsumed in prime form within any of the SI AITN chords.

SI AITN 1 – Tetrachords:

C	D	A	C [#]	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D	A	C [#]	E	0237	4-14 ^{<4}	<111120>	Major-second Minor Tetrachord (0457)
A	C [#]	E	F	0148	4-19	<101310>	Minor-augmented Tetrachord (0348)
C [#]	E	F	B	0146	4-z15	<111111>	All-Interval Tetrachord AIT 1 (0256)
E	F	B	A [#]	0167	4-9*[6]	<200022>	Double Tritone – Mode IV Complement
F	B	A [#]	G	0146	4-z15	<111111>	All-Interval Tetrachord AIT 1 (0256)
B	A [#]	G	D [#]	0148	4-19	<101310>	Minor-augmented Tetrachord (0348)
A [#]	G	D [#]	G [#]	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)
G	D [#]	G [#]	F [#]	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D [#]	G [#]	F [#]	C	0258	4-27	<012111>	Half-diminished Seventh Chord (0368)
G [#]	F [#]	C	D	0268	4-25*[6]	<020202>	French Sixth – Mode VI Complement
F [#]	C	D	A	0258	4-27	<012111>	Half-diminished Seventh Chord (0368)
C	D	A	C [#]	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)

Note: 4-28* (0369) is not subsumed in prime form within any of the SI AITN Chords.

⁴ < Indicates set has a complement with the same name ending.

SI AITN 1 – Pentachords:

C	D	A	C [#]	E	02347	5-11	<222220>	Centre-cluster Pentachord 1 03457
D	A	C [#]	E	F	01348	5-z17*	<212320>	Minor-Major Ninth Chord
A	C [#]	E	F	B	01468	5-30	<121321>	Enigmatic Pentachord 1 (02478)
C [#]	E	F	B	A [#]	01367	5-19	<212122>	Javanese Pentachord (01467)
E	F	B	A [#]	G	01367	5-19	<212122>	Javanese Pentachord (01467)
F	B	A [#]	G	D [#]	01468	5-30	<121321>	Enigmatic Pentachord 1 (02478)
B	A [#]	G	D [#]	G [#]	01348	5-z17*	<212320>	Minor-Major Ninth (Farben) Chord
A [#]	G	D [#]	G [#]	F [#]	02347	5-11	<222220>	Centre-cluster Pentachord 1 03457
G	D [#]	G [#]	F [#]	C	01258	5-z38	<212221>	Diminished Pentacluster 1 (03678)
D [#]	G [#]	F [#]	C	D	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
G [#]	F [#]	C	D	A	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
F [#]	C	D	A	C [#]	01258	5-z38	<212221>	Diminished Pentacluster 1 (03678)
C	D	A	C [#]	E	02347	5-11	<222220>	Centre-cluster Pentachord 1 03457

Note: 5-35* (02479) is not subsumed in prime form within any of the SI AITN Chords.

SI AITN 1 – Hexachords:

C	D	A	C [#]	E	F	013458	6-14	<323430>	Combinatorial (034578)
D	A	C [#]	E	F	B	013468	6-z24	<233331>	B: 024578 Melodic minor
A	C [#]	E	F	B	A [#]	012478	6-z17	<322332>	All-Triad Hexachord 014678
C [#]	E	F	B	A [#]	G	013679	6-30	<224223>	Minor-bitonal comb. 023689
E	F	B	A [#]	G	D [#]	012478	6-z17	<322332>	All-Triad Hexachord 014678
F	B	A [#]	G	D [#]	G [#]	013468	6-z24	<233331>	B: 024578 Melodic minor
B	A [#]	G	D [#]	G [#]	F [#]	013458	6-14	<323430>	Combinatorial (034578)
A [#]	G	D [#]	G [#]	F [#]	C	012469	6-z46	<233331>	6-z46B: 024569
G	D [#]	G [#]	F [#]	C	D	012568	6-z43	<322332>	6-z43B: 023678
D [#]	G [#]	F [#]	C	D	A	013679	6-30	<224223>	Minor-bitonal comb. 023689
G [#]	F [#]	C	D	A	C [#]	012568	6-z43	<322332>	6-z43B: 023678
F [#]	C	D	A	C [#]	E	012469	6-z46	<233331>	6-z46B: 024569
C	D	A	C [#]	E	F	013458	6-14	<323430>	Combinatorial (034578)

Note: 6-7* (012678) and 6-35* (02468T) are not subsumed in prime form within any of the SI AITN Chords.

SI AITN 1 – Heptachords:

C	D	A	C [#]	E	F	B	0134568	7-11	<444441>	7-11B: 0234578
D	A	C [#]	E	F	B	A [#]	0124578	7-z38	<434442>	7-z38B: 0134678
A	C [#]	E	F	B	A [#]	G	0135679	7-28<	<344433>	7-28B: 0234689
C [#]	E	F	B	A [#]	G	D [#]	0135679	7-28<	<344433>	7-28B: 0234689
E	F	B	A [#]	G	D [#]	G [#]	0124578	7-z38	<434442>	7-z38B: 0134678
F	B	A [#]	G	D [#]	G [#]	F [#]	0134568	7-11	<444441>	7-11B: 0234578
B	A [#]	G	D [#]	G [#]	F [#]	C	0124569	7-z17	<434541>	
A [#]	G	D [#]	G [#]	F [#]	C	D	0124689 0135789	7-30	<343542>	Neapolitan-Minor (1222131)
G	D [#]	G [#]	F [#]	C	D	A	0123679	7-19	<434343>	7-19B: 0123689
D [#]	G [#]	F [#]	C	D	A	C [#]	0123679	7-19	<434343>	7-19B: 0123689
G [#]	F [#]	C	D	A	C [#]	E	0124689 0135789	7-30	<343542>	Neapolitan-Minor (1222131)
F [#]	C	D	A	C [#]	E	F	0124569	7-z17	<434541>	
C	D	A	C [#]	E	F	B	0134568	7-11	<444441>	7-11B: 0234578

Note: 7-35* (013568T) is not subsumed in prime form within any of the SI AITN Chords.

SI AITN 1 – Octachords:

C	D	A	C [#]	E	F	B	A [#]	01234578	8-4	<655552>	8-4B 01345678
D	A	C [#]	E	F	B	A [#]	G	0124578T	8-27	<456553>	8-27B 0124679T
A	C [#]	E	F	B	A [#]	G	D [#]	0124678T	8-25*	<464644>	Messiaen VI
C [#]	E	F	B	A [#]	G	D [#]	G [#]	0124578T	8-27	<456553>	8-27B 0124679T
E	F	B	A [#]	G	D [#]	G [#]	F [#]	01234578	8-4	<655552>	8-4B 01345678
F	B	A [#]	G	D [#]	G [#]	F [#]	C	01245679	8-14<	<555562>	8-14B 02345789
B	A [#]	G	D [#]	G [#]	F [#]	C	D	01245689	8-19	<545752>	8-19B 01345789
A [#]	G	D [#]	G [#]	F [#]	C	D	A	01234689	8-z15	<555553>	Complement: AIT
G	D [#]	G [#]	F [#]	C	D	A	C [#]	01236789	8-9	<644464>	Messiaen IV
D [#]	G [#]	F [#]	C	D	A	C [#]	E	01234689	8-z15	<555553>	8-z15B 01356789
G [#]	F [#]	C	D	A	C [#]	E	F	01245689	8-19	<545752>	8-19B 01345789
F [#]	C	D	A	C [#]	E	F	B	01245679	8-14<	<555562>	8-14B 02345789
C	D	A	C [#]	E	F	B	A [#]	01234578	8-4	<655552>	8-4B 01345678

Note: 8-28* (0134679T) is not subsumed within any of the SI AITN Chords.

SI AITN 1 – Nonachords:

C	D	A	C#	E	F	B	A#	G	01234578T	9-7	<677673>	01234579T
D	A	C#	E	F	B	A#	G	D#	01234678T	9-8	<676764>	01234689T
A	C#	E	F	B	A#	G	D#	G#	01234678T	9-8	<676764>	01234689T
C#	E	F	B	A#	G	D#	G#	F#	01234578T	9-7	<677673>	01234579T
E	F	B	A#	G	D#	G#	F#	C	012345789	9-4	<766773>	012456789
F	B	A#	G	D#	G#	F#	C	D	01235679T	9-11	<667773>	01235689T
B	A#	G	D#	G#	F#	C	D	A	012345689	9-3	<767763>	013456789
A#	G	D#	G#	F#	C	D	A	C#	012346789	9-5	<766674>	012356789
G	D#	G#	F#	C	D	A	C#	E	012346789	9-5	<766674>	012356789
D#	G#	F#	C	D	A	C#	E	F	012345689	9-3	<767763>	013456789
G#	F#	C	D	A	C#	E	F	B	01235679T	9-11	<667773>	01235689T
F#	C	D	A	C#	E	F	B	A#	012345789	9-4	<766773>	012456789
C	D	A	C#	E	F	B	A#	G	01234578T	9-7	<677673>	01234579T

Note: 9-12* (01245689T) is not subsumed within any of the SI AITN Chords. *

SI AITN 1 – Decachords:

C	D	A	C#	E	F	B	A#	G	D#	012345678T	10-2*	<898884>
D	A	C#	E	F	B	A#	G	D#	G#	012346789T	10-6*	<888885>
A	C#	E	F	B	A#	G	D#	G#	F#	012345678T	10-2*	<898884>
C#	E	F	B	A#	G	D#	G#	F#	C	012345789T	10-5*	<888894>
E	F	B	A#	G	D#	G#	F#	C	D	012345689T	10-4*	<888984>
F	B	A#	G	D#	G#	F#	C	D	A	012345679T	10-3*	<889884>
B	A#	G	D#	G#	F#	C	D	A	C#	0123456789	10-1*	<988884>
A#	G	D#	G#	F#	C	D	A	C#	E	012346789T	10-6*	<888885>
G	D#	G#	F#	C	D	A	C#	E	F	0123456789	10-1*	<988884>
D#	G#	F#	C	D	A	C#	E	F	B	012345679T	10-3*	<889884>
G#	F#	C	D	A	C#	E	F	B	A#	012345689T	10-4*	<888984>
F#	C	D	A	C#	E	F	B	A#	G	012345789T	10-5*	<888894>
C	D	A	C#	E	F	B	A#	G	D#	012345678T	10-2*	<898884>

List of Pitch-class Sets
SI AITN Chord 3

Literal Spelling: C – D – A – C# – A# – B – F – E – G – D# – G# – F# – C
27491 6 E385T (6-1)

SI AITN 3 – Trichords:

C	D	A	025	3-7	<011010>	Incomplete minor seventh Chord (035)
D	A	C#	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
A	C#	A#	014	3-3	<101100>	Major-minor Trichord 1 (034)
C#	A#	B	013	3-2	<111000>	Phrygian Trichord (023)
A#	B	F	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
B	F	E	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
F	E	G	013	3-2	<111000>	Phrygian Trichord (023)
E	G	D#	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
G	D#	G#	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
D#	G#	F#	025	3-7	<011010>	Incomplete minor seventh Chord (035)
G#	F#	C	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
F#	C	D	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
C	D	A	025	3-7	<011010>	Incomplete minor seventh Chord (035)

SI AITN 3 – Tetrachords:

C	D	A	C#	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D	A	C#	A#	0145	4-7	<201210>	Complement: 8-7
A	C#	A#	B	0124	4-2	<221100>	Complement: 8-2
C#	A#	B	F	0137	4-z29	<111111>	All-Interval Tetrachord (AIT) 3 (0467)
A#	B	F	E	0167	4-9*[6]	<200022>	Double Tritone – Mode IV Complement
B	F	E	G	0137	4-z29	<111111>	All-Interval Tetrachord (AIT) 3 (0467)
F	E	G	D#	0124	4-2	<221100>	Complement: 8-2
E	G	D#	G#	0145	4-7	<201210>	Complement: 8-7
G	D#	G#	F#	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D#	G#	F#	C	0258	4-27	<012111>	Half-diminished Seventh Chord (0368)
G#	F#	C	D	0268	4-25*[6]	<020202>	French Sixth – Mode VI Complement
F#	C	D	A	0258	4-27	<012111>	Half-diminished Seventh Chord (0368)
C	D	A	C#	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)

SI AITN 3 – Pentachords:

C	D	A	C#	A#	01245	5-3	<322210>	Complement: 7-3
D	A	C#	A#	B	01245	5-3	<322210>	Complement: 7-3
A	C#	A#	B	F	01248	5-13	<221311>	Augmented Pentacluster 1 02348
C#	A#	B	F	E	01367	5-19	<212122>	Javanese Pentachord (01467)
A#	B	F	E	G	01367	5-19	<212122>	Javanese Pentachord (01467)
B	F	E	G	D#	01248	5-13	<221311>	Augmented Pentacluster 1 02348
F	E	G	D#	G#	01245	5-3	<322210>	Complement: 7-3
E	G	D#	G#	F#	01245	5-3	<322210>	Complement: 7-3
G	D#	G#	F#	C	01258	5-z38	<212221>	Diminished Pentacluster 1 (03678)
D#	G#	F#	C	D	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
G#	F#	C	D	A	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
F#	C	D	A	C#	01258	5-z38	<212221>	Diminished Pentacluster 1 (03678)
C	D	A	C#	A#	01245	5-3	<322210>	Complement: 7-3

SI AITN 3 – Hexachords:

C	D	A	C#	A#	B	012345	6-1	<543210>	Chromatic Hexamirror
D	A	C#	A#	B	F	012458	6-15	<323421>	Complement: 4-15
A	C#	A#	B	F	E	012478	6-z17	<322332>	All-Triad Hexachord 014678
C#	A#	B	F	E	G	013679	6-30	<224223>	Minor-bitonal comb. 023689
A#	B	F	E	G	D#	012478	6-z17	<322332>	All-Triad Hexachord 014678
B	F	E	G	D#	G#	012458	6-15	<323421>	Complement: 4-15
F	E	G	D#	G#	F#	012345	6-1	<543210>	Chromatic Hexamirror
E	G	D#	G#	F#	C	012458	6-15	<323421>	Complement: 4-15
G	D#	G#	F#	C	D	012568	6-z43	<322332>	6-z43B: 023678
D#	G#	F#	C	D	A	013679	6-30	<224223>	Minor-bitonal comb. 023689
G#	F#	C	D	A	C#	012568	6-z43	<322332>	6-z43B: 023678
F#	C	D	A	C#	A#	012458	6-15	<323421>	Complement: 4-15
C	D	A	C#	A#	B	012345	6-1	<543210>	Chromatic Hexamirror

SI AITN 3 – Heptachords:

C	D	A	C#	A#	B	F	0123458	7-3	<544431>	Complement: 5-3
D	A	C#	A#	B	F	E	0124578	7-z38	<434442>	7-z38B: 0134678
A	C#	A#	B	F	E	G	0135679	7-28<	<344433>	7-28B: 0234689
C#	A#	B	F	E	G	D#	0135679	7-28<	<344433>	7-28B: 0234689
A#	B	F	E	G	D#	G#	0124578	7-z38	<434442>	7-z38B: 0134678
B	F	E	G	D#	G#	F#	0123458	7-3	<544431>	Complement: 5-3
F	E	G	D#	G#	F#	C	0123458	7-3	<544431>	Complement: 5-3
E	G	D#	G#	F#	C	D	0124568	7-13	<443532>	7-13B: 0234678
G	D#	G#	F#	C	D	A	0123679	7-19	<434343>	7-19B: 0123689
D#	G#	F#	C	D	A	C#	0123679	7-19	<434343>	7-19B: 0123689
G#	F#	C	D	A	C#	A#	0124568	7-13	<443532>	7-13B: 0234678
F#	C	D	A	C#	A#	B	0123468	7-9	<45342>	Complement: 5-9
C	D	A	C#	A#	B	F	0123458	7-3	<544431>	Complement: 5-3

SI AITN 3 – Octachords:

C	D	A	C#	A#	B	F	E	01234578	8-4	<655552>	8-4B 01345678
D	A	C#	A#	B	F	E	G	0124578T	8-27	<456553>	8-27B 0124679T
A	C#	A#	B	F	E	G	D#	0124678T	8-25*	<464644>	Messiaen VI
C#	A#	B	F	E	G	D#	G#	0124578T	8-27	<456553>	8-27B 0124679T
A#	B	F	E	G	D#	G#	F#	01234578	8-4	<655552>	8-4B 01345678
B	F	E	G	D#	G#	F#	C	01234589	8-7	<645652>	Complement: 4-7
F	E	G	D#	G#	F#	C	D	01234568	8-2	<665542>	Complement: 4-2
E	G	D#	G#	F#	C	D	A	01235679	8-z29	<555553>	Complement: AIT
G	D#	G#	F#	C	D	A	C#	01236789	8-9	<644464>	Messiaen IV
D#	G#	F#	C	D	A	C#	A#	01235679	8-z29	<555553>	Complement: AIT
G#	F#	C	D	A	C#	A#	B	01234568	8-2	<665542>	Complement: 4-2
F#	C	D	A	C#	A#	B	F	01234589	8-7	<645652>	Complement: 4-7
C	D	A	C#	A#	B	F	E	01234578	8-4	<655552>	8-4B 01345678

SI AITN 3 – Nonachords:

C	D	A	C#	A#	B	F	E	G	01234578T	9-7	<677673>	01234579T
D	A	C#	A#	B	F	E	G	D#	01234678T	9-8	<676764>	01234689T
A	C#	A#	B	F	E	G	D#	G#	01234678T	9-8	<676764>	01234689T
C#	A#	B	F	E	G	D#	G#	F#	01234578T	9-7	<677673>	01234579T
A#	B	F	E	G	D#	G#	F#	C	012345789	9-4	<766773>	012456789
B	F	E	G	D#	G#	F#	C	D	012345689	9-3	<767763>	013456789
F	E	G	D#	G#	F#	C	D	A	012345679	9-2	<777663>	023456789
E	G	D#	G#	F#	C	D	A	C#	012346789	9-5	<766674>	012356789
G	D#	G#	F#	C	D	A	C#	A#	012346789	9-5	<766674>	012356789
D#	G#	F#	C	D	A	C#	A#	B	012345679	9-2	<777663>	023456789
G#	F#	C	D	A	C#	A#	B	F	012345689	9-3	<767763>	013456789
F#	C	D	A	C#	A#	B	F	E	012345789	9-4	<766773>	012456789
C	D	A	C#	A#	B	F	E	G	01234578T	9-7	<677673>	01234579T

SI AITN 3 – Decachords:

C	D	A	C#	A#	B	F	E	G	D#	012345678T	10-2*	<898884>
D	A	C#	A#	B	F	E	G	D#	G#	012346789T	10-6*	<888885>
A	C#	A#	B	F	E	G	D#	G#	F#	012345678T	10-2*	<898884>
C#	A#	B	F	E	G	D#	G#	F#	C	012345789T	10-5*	<888894>
A#	B	F	E	G	D#	G#	F#	C	D	012345689T	10-4*	<888984>
B	F	E	G	D#	G#	F#	C	D	A	012345679T	10-3*	<889884>
F	E	G	D#	G#	F#	C	D	A	C#	0123456789	10-1*	<988884>
E	G	D#	G#	F#	C	D	A	C#	A#	012346789T	10-6*	<888885>
G	D#	G#	F#	C	D	A	C#	A#	B	0123456789	10-1*	<988884>
D#	G#	F#	C	D	A	C#	A#	B	F	012345679T	10-3*	<889884>
G#	F#	C	D	A	C#	A#	B	F	E	012345689T	10-4*	<888984>
F#	C	D	A	C#	A#	B	F	E	G	012345789T	10-5*	<888894>
C	D	A	C#	A#	B	F	E	G	D#	012345678T	10-2*	<898884>

List of Pitch-class Sets
SI AITN Chord 58

Literal Spelling: C – D – D[#] – G – E – B – F – B^b – D^b – A – G[#] – F[#] – C
21497 6 538ET (6-14)

SI AITN 58 – Trichords:

C	D	D [#]	013	3-2	<111000>	Phrygian Trichord (023)
D	D [#]	G	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
D [#]	G	E	014	3-3	<101100>	Major-minor Trichord 1 (034)
G	E	B	037	3-11	<001110>	Major/Minor Chord (047)
E	B	F	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
B	F	B ^b	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
F	B ^b	D ^b	037	3-11	<001110>	Major/Minor Chord (047)
B ^b	D ^b	A	014	3-3	<101100>	Major-minor Trichord 1 (034)
D ^b	A	G [#]	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
A	G [#]	F [#]	013	3-2	<111000>	Phrygian Trichord (023)
G [#]	F [#]	C	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
F [#]	C	D	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
C	D	D [#]	013	3-2	<111000>	Phrygian Trichord (023)

SI AITN 58 – Tetrachords:

C	D	D [#]	G	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)
D	D [#]	G	E	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D [#]	G	E	B	0148	4-19	<101310>	Minor-augmented Tetrachord (0348)
G	E	B	F	0137	4-z29	<111111>	All-Interval Tetrachord (AIT) 3 (0467)
E	B	F	B ^b	0167	4-9*[6]	<200022>	Double Tritone – Mode IV Complement
B	F	B ^b	D ^b	0137	4-z29	<111111>	All-Interval Tetrachord (AIT) 3 (0467)
F	B ^b	D ^b	A	0148	4-19	<101310>	Minor-augmented Tetrachord (0348)
B ^b	D ^b	A	G [#]	0125	4-4	<211110>	Minor Third Tetracluster 2 (0345)
D ^b	A	G [#]	F [#]	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)
A	G [#]	F [#]	C	0236	4-12<	<112101>	Harmonic-minor Tetrachord (0346)
G [#]	F [#]	C	D	0268	4-25*[6]	<020202>	French Sixth – Mode VI Complement
F [#]	C	D	D [#]	0236	4-12<	<112101>	Harmonic-minor Tetrachord (0346)
C	D	D [#]	G	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)

SI AITN 58 – Pentachords:

C	D	D [#]	G	E	02347	5-11	<222220>	Centre-cluster Pentachord1 03457
D	D [#]	G	E	B	03458	5-z37	<212320>	Centre-cluster Pentamirror
D [#]	G	E	B	F	01248	5-13	<221311>	Augmented Pentacluster 1 02348
G	E	B	F	B ^b	01367	5-19	<212122>	Javanese Pentachord (01467)
E	B	F	B ^b	D ^b	01367	5-19	<212122>	Javanese Pentachord (01467)
B	F	B ^b	D ^b	A	01248	5-13	<221311>	Augmented Pentacluster 1 02348
F	B ^b	D ^b	A	G [#]	03458	5-z37	<212320>	Centre-cluster Pentamirror
B ^b	D ^b	A	G [#]	F [#]	02347	5-11	<222220>	Centre-cluster Pentachord1 03457
D ^b	A	G [#]	F [#]	C	01457	5-z18	<212221>	Gypsy Pentachord 1 (02367)
A	G [#]	F [#]	C	D	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
G [#]	F [#]	C	D	D [#]	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
F [#]	C	D	D [#]	G	01457	5-z18	<212221>	Gypsy Pentachord 1 (02367)
C	D	D [#]	G	E	02347	5-11	<222220>	Centre-cluster Pentachord 1 03457

SI AITN 58 – Hexachords:

C	D	D [#]	G	E	B	013458	6-14	<323430>	Combinatorial (034578)
D	D [#]	G	E	B	F	023458	6-z39	<333321>	6-z39B: 034568
D [#]	G	E	B	F	B ^b	012478	6-z17	<322332>	All-Triad Hexachord 014678
G	E	B	F	B ^b	D ^b	013679	6-30 [6]	<224223>	Minor-bitonal comb. 023689
E	B	F	B ^b	D ^b	A	012478	6-z17	<322332>	All-Triad Hexachord 014678
B	F	B ^b	D ^b	A	G [#]	023458	6-z39	<333321>	6-z39B: 034568
F	B ^b	D ^b	A	G [#]	F [#]	013458	6-14	<323430>	Combinatorial (034578)
B ^b	D ^b	A	G [#]	F [#]	C	013457	6-z10	<333321>	6-z10B: 023467
D ^b	A	G [#]	F [#]	C	D	012568	6-z43	<322332>	6-z43B: 023678
A	G [#]	F [#]	C	D	D [#]	013679	6-30	<224223>	Minor-bitonal comb. 023689
G [#]	F [#]	C	D	D [#]	G	012568	6-z43	<322332>	6-z43B: 023678
F [#]	C	D	D [#]	G	E	013457	6-z10	<333321>	6-z10B: 023467
C	D	D [#]	G	E	B	013458	6-14	<323430>	Combinatorial (034578)

SI AITN 58 – Heptachords:

C	D	D [#]	G	E	B	F	0134568	7-11	<444441>	7-11B: 0234578
D	D [#]	G	E	B	F	B ^b	0234589	7-z18	<434442>	B: 0123589/0146789
D [#]	G	E	B	F	B ^b	D ^b	0135679	7-28<	<344433>	7-28B: 0234689
G	E	B	F	B ^b	D ^b	A	0135679	7-28<	<344433>	7-28B: 0234689
E	B	F	B ^b	D ^b	A	G [#]	0234589	7-z18	<434442>	B: 0123589/0146789
B	F	B ^b	D ^b	A	G [#]	F [#]	0134568	7-11	<444441>	7-11B: 0234578
F	B ^b	D ^b	A	G [#]	F [#]	C	0134578	7-z37*	<434541>	
B ^b	D ^b	A	G [#]	F [#]	C	D	0124568	7-13	<443532>	7-13B: 0234678
D ^b	A	G [#]	F [#]	C	D	D [#]	0123679	7-19	<434343>	7-19B: 0123689
A	G [#]	F [#]	C	D	D [#]	G	0123679	7-19	<434343>	7-19B: 0123689
G [#]	F [#]	C	D	D [#]	G	E	0124568	7-13	<443532>	7-13B: 0234678
F [#]	C	D	D [#]	G	E	B	0134578	7-z37*	<434541>	
C	D	D [#]	G	E	B	F	0134568	7-11	<444441>	7-11B: 0234578

SI AITN 58 – Octachords:

C	D	D [#]	G	E	B	F	B ^b	01245679	8-14<	<555562>	8-14B: 02345789
D	D [#]	G	E	B	F	B ^b	D ^b	01345679	8-12<	<556543>	8-12B: 02345689
D [#]	G	E	B	F	B ^b	D ^b	A	0124678T	8-25*	<464644>	Mode VI
G	E	B	F	B ^b	D ^b	A	G [#]	01345679	8-12<	<556543>	8-12B: 02345689
E	B	F	B ^b	D ^b	A	G [#]	F [#]	01245679	8-14<	<555562>	8-14B: 02345789
B	F	B ^b	D ^b	A	G [#]	F [#]	C	01234578	8-4	<655552>	8-4B: 01345678
F	B ^b	D ^b	A	G [#]	F [#]	C	D	01245689	8-19	<545752>	8-19B: 01345789
B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	01235679	8-z29	<555553>	8-z29B 02346789
D ^b	A	G [#]	F [#]	C	D	D [#]	G	01236789	8-9	<644464>	Mode IV
A	G [#]	F [#]	C	D	D [#]	G	E	01235679	8-z29	<555553>	Complement: AIT
G [#]	F [#]	C	D	D [#]	G	E	B	01245689	8-19	<545752>	8-19B: 01345789
F [#]	C	D	D [#]	G	E	B	F	01234578	8-4	<655552>	8-4B: 01345678
C	D	D [#]	G	E	B	F	B ^b	01245679	8-14<	<555562>	8-14B: 02345789

SI AITN 58 – Nonachords:

C	D	D [#]	G	E	B	F	B ^b	D ^b	012345679	9-2	<777663>	B: 023456789
D	D [#]	G	E	B	F	B ^b	D ^b	A	01234678T	9-8	<676764>	B 01234689T
D [#]	G	E	B	F	B ^b	D ^b	A	G [#]	01234678T	9-8	<676764>	B 01234689T
G	E	B	F	B ^b	D ^b	A	G [#]	F [#]	012345679	9-2	<777663>	B: 023456789
E	B	F	B ^b	D ^b	A	G [#]	F [#]	C	012345789	9-4	<766773>	B: 012456789
B	F	B ^b	D ^b	A	G [#]	F [#]	C	D	012345689	9-3	<767763>	B: 013456789
F	B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	01235679T	9-11	<667773>	B 01235689T
B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	G	012346789	9-5	<766674>	B: 012356789
D ^b	A	G [#]	F [#]	C	D	D [#]	G	E	012346789	9-5	<766674>	B: 012356789
A	G [#]	F [#]	C	D	D [#]	G	E	B	01235679T	9-11	<667773>	B 01235689T
G [#]	F [#]	C	D	D [#]	G	E	B	F	012345689	9-3	<767763>	B: 013456789
F [#]	C	D	D [#]	G	E	B	F	B ^b	012345789	9-4	<766773>	B: 012456789
C	D	D [#]	G	E	B	F	B ^b	D ^b	012345679	9-2	<777663>	B: 023456789

SI AITN 58 – Decachords:

C	D	D [#]	G	E	B	F	B ^b	D ^b	A	012345678T	10-2*	<898884>
D	D [#]	G	E	B	F	B ^b	D ^b	A	G [#]	012346789T	10-6*	<888885>
D [#]	G	E	B	F	B ^b	D ^b	A	G [#]	F [#]	012345678T	10-2*	<898884>
G	E	B	F	B ^b	D ^b	A	G [#]	F [#]	C	0123456789	10-1*	<988884>
E	B	F	B ^b	D ^b	A	G [#]	F [#]	C	D	012345689T	10-4*	<888984>
B	F	B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	012345679T	10-3*	<889884>
F	B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	G	012345789T	10-5*	<888894>
B ^b	D ^b	A	G [#]	F [#]	C	D	D [#]	G	E	012346789T	10-6*	<888885>
D ^b	A	G [#]	F [#]	C	D	D [#]	G	E	B	012345789T	10-5*	<888894>
A	G [#]	F [#]	C	D	D [#]	G	E	B	F	012345679T	10-3*	<889884>
G [#]	F [#]	C	D	D [#]	G	E	B	F	B ^b	012345689T	10-4*	<888984>
F [#]	C	D	D [#]	G	E	B	F	B ^b	D ^b	0123456789	10-1*	<988884>
C	D	D [#]	G	E	B	F	B ^b	D ^b	A	012345678T	10-2*	<898884>

List of Pitch-class Sets
SI AITN Chord 60

Literal Spelling: C – D – E^b – G – B^b – F – B – E – C[#] – A – G[#] – F[#] – C
21437 6 598ET (6-32)

SI AITN 60 – Trichords:

C	D	E ^b	013	3-2	<111000>	Phrygian Trichord (023)
D	E ^b	G	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
E ^b	G	B ^b	037	3-11	<001110>	Major/Minor Chord (047)
G	B ^b	F	025	3-7	<011010>	Incomplete minor seventh Chord (035)
B ^b	F	B	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
F	B	E	016	3-5	<100011>	Rite Chord/Tritone Fourth (056)
B	E	C [#]	025	3-7	<011010>	Incomplete minor seventh Chord (035)
E	C [#]	A	037	3-11	<001110>	Major/Minor Chord (047)
C [#]	A	G [#]	015	3-4	<100110>	Incomplete Major Seventh Chord (045)
A	G [#]	F [#]	013	3-2	<111000>	Phrygian Trichord (023)
G [#]	F [#]	C	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
F [#]	C	D	026	3-8	<010101>	Incomplete Dominant Seventh/Italian Sixth (046)
C	D	E ^b	013	3-2	<111000>	Phrygian Trichord (023)

SI AITN 60 – Tetrachords:

C	D	E ^b	G	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)
D	E ^b	G	B ^b	0158	4-20*	<101220>	Major Seventh Chord
E ^b	G	B ^b	F	0247	4-22	<021120>	Major-second Major Tetrachord (0357)
G	B ^b	F	B	0146	4-z15	<111111>	All-Interval Tetrachord 1 (0256)
B ^b	F	B	E	0167	4-9*[6]	<200022>	Double Tritone – Mode IV Complement
F	B	E	C [#]	0146	4-z15	<111111>	All-Interval Tetrachord 1 (0256)
B	E	C [#]	A	0247	4-22	<021120>	Major-second Major Tetrachord (0357)
E	C [#]	A	G [#]	0158	4-20*	<101220>	Major Seventh Chord
C [#]	A	G [#]	F [#]	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)
A	G [#]	F [#]	C	0236	4-12<	<112101>	Harmonic-minor Tetrachord (0346)
G [#]	F [#]	C	D	0268	4-25*[6]	<020202>	French Sixth – Mode VI Complement
F [#]	C	D	E ^b	0236	4-12<	<112101>	Harmonic-minor Tetrachord (0346)
C	D	E ^b	G	0237	4-14<	<111120>	Major-second Minor Tetrachord (0457)

SI AITN 60 – Pentachords:

C	D	E ^b	G	B ^b	01358	5-27	<122230>	Major-Ninth Chord (03578)
D	E ^b	G	B ^b	F	01358	5-27	<122230>	Major-Ninth Chord (03578)
E ^b	G	B ^b	F	B	01468	5-30	<121321>	Enigmatic Pentachord 1 (02478)
G	B ^b	F	B	E	01367	5-19	<212122>	Javanese Pentachord (01467)
B ^b	F	B	E	C [#]	01367	5-19	<212122>	Javanese Pentachord (01467)
F	B	E	C [#]	A	01468	5-30	<121321>	Enigmatic Pentachord 1 (02478)
B	E	C [#]	A	G [#]	01358	5-27	<122230>	Major-Ninth Chord (03578)
E	C [#]	A	G [#]	F [#]	01358	5-27	<122230>	Major-Ninth Chord (03578)
C [#]	A	G [#]	F [#]	C	01457	5-z18	<212221>	Gypsy Pentachord 1 (02367)
A	G [#]	F [#]	C	D	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
G [#]	F [#]	C	D	E ^b	02368	5-28<	<122212>	Augmented 6 th Pentachord1 02568
F [#]	C	D	E ^b	G	01457	5-z18	<212221>	Gypsy Pentachord 1 (02367)
C	D	E ^b	G	B ^b	01358	5-27	<122230>	Major-Ninth Chord (03578)

SI AITN 60 – Hexachords:

C	D	E ^b	G	B ^b	F	024579	6-32*	<143250>	Arezzo Major Diatonic Major
D	E ^b	G	B ^b	F	B	014579	6-31	<223431>	Combinatorial I (7) 013589
E ^b	G	B ^b	F	B	E	012478	6-z17	<322332>	All-Triad Hexachord 014678
G	B ^b	F	B	E	C [#]	013679	6-30	<224223>	Minor-bitonal comb. 023689
B ^b	F	B	E	C [#]	A	012478	6-z17	<322332>	All-Triad Hexachord 014678
F	B	E	C [#]	A	G [#]	014579	6-31	<223431>	Combinatorial I (7) 013589
B	E	C [#]	A	G [#]	F [#]	024579	6-32*	<143250>	Arezzo Major Diatonic Major
E	C [#]	A	G [#]	F [#]	C	014579	6-31	<223431>	Combinatorial I (7) 013589
C [#]	A	G [#]	F [#]	C	D	012568	6-z43	<322332>	6-z43B: 023678
A	G [#]	F [#]	C	D	E ^b	013679	6-30	<224223>	Minor-bitonal comb. 023689
G [#]	F [#]	C	D	E ^b	G	012568	6-z43	<322332>	6-z43B: 023678
F [#]	C	D	E ^b	G	B ^b	014579	6-31	<223431>	Combinatorial I (7) 013589
C	D	E ^b	G	B ^b	F	024579	6-32	<143250>	Arezzo Major Diatonic Major

SI AITN 60 – Heptachords:

C	D	E ^b	G	B ^b	F	B	0124579	7-27	<344451>	7-27B: 0245789
D	E ^b	G	B ^b	F	B	E	0234589	7-z18	<434442>	B: 0123589/0146789
E ^b	G	B ^b	F	B	E	C [#]	0135679	7-28<	<344433>	7-28B: 0234689
G	B ^b	F	B	E	C [#]	A	0135679	7-28<	<344433>	7-28B: 0234689
B ^b	F	B	E	C [#]	A	G [#]	0234589	7-z18	<434442>	B: 0123589/0146789
F	B	E	C [#]	A	G [#]	F [#]	0124579	7-27	<344451>	7-27B: 0245789
B	E	C [#]	A	G [#]	F [#]	C	0124579	7-27	<344451>	7-27B: 0245789
E	C [#]	A	G [#]	F [#]	C	D	0124689 0135789	7-30	<343542>	Neapolitan-Minor (1222131)
C [#]	A	G [#]	F [#]	C	D	E ^b	0123679	7-19	<434343>	7-19B: 0123689
A	G [#]	F [#]	C	D	E ^b	G	0123679	7-19	<434343>	7-19B: 0123689
G [#]	F [#]	C	D	E ^b	G	B ^b	0124689 0135789	7-30	<343542>	Neapolitan-Minor (1222131)
F [#]	C	D	E ^b	G	B ^b	F	0124579	7-27	<344451>	7-27B: 0245789
C	D	E ^b	G	B ^b	F	B	0124579	7-27	<344451>	7-27B: 0245789

SI AITN 60 – Octachords:

C	D	E ^b	G	B ^b	F	B	E	01245679	8-14<	<555562>	8-14B: 02345789
D	E ^b	G	B ^b	F	B	E	C [#]	01345679	8-12<	<556543>	8-12B: 02345689
E ^b	G	B ^b	F	B	E	C [#]	A	0124678T	8-25*	<464644>	Mode VI
G	B ^b	F	B	E	C [#]	A	G [#]	01345679	8-12<	<556543>	8-12B: 02345689
B ^b	F	B	E	C [#]	A	G [#]	F [#]	01245679	8-14<	<555562>	8-14B: 02345789
F	B	E	C [#]	A	G [#]	F [#]	C	01245789	8-20*	<545662>	
B	E	C [#]	A	G [#]	F [#]	C	D	0123568T	8-22	<465562>	8-22B: 0123579T
E	C [#]	A	G [#]	F [#]	C	D	E ^b	01234689	8-z15	<555553>	8-z15B: 01356789
C [#]	A	G [#]	F [#]	C	D	E ^b	G	01236789	8-9	<644464>	Mode IV
A	G [#]	F [#]	C	D	E ^b	G	B ^b	01234689	8-z15	<555553>	8-z15B: 01356789
G [#]	F [#]	C	D	E ^b	G	B ^b	F	0123568T	8-22	<465562>	8-22B: 0123579T
F [#]	C	D	E ^b	G	B ^b	F	B	01245789	8-20*	<545662>	
C	D	E ^b	G	B ^b	F	B	E	01245679	8-14<	<555562>	8-14B: 02345789

SI AITN 60 – Nonachords:

C	D	E ^b	G	B ^b	F	B	E	C [#]	012345679	9-2	<777663>	B: 023456789
D	E ^b	G	B ^b	F	B	E	C [#]	A	01234678T	9-8	<676764>	B: 01234689T
E ^b	G	B ^b	F	B	E	C [#]	A	G [#]	01234678T	9-8	<676764>	B: 01234689T
G	B ^b	F	B	E	C [#]	A	G [#]	F [#]	012345679	9-2	<777663>	B: 023456789
B ^b	F	B	E	C [#]	A	G [#]	F [#]	C	012345789	9-4	<766773>	B: 012456789
F	B	E	C [#]	A	G [#]	F [#]	C	D	01235679T	9-11	<667773>	B: 01235689T
B	E	C [#]	A	G [#]	F [#]	C	D	E ^b	01234578T	9-7	<677673>	B: 01234579T
E	C [#]	A	G [#]	F [#]	C	D	E ^b	G	012346789	9-5	<766674>	B: 012356789
C [#]	A	G [#]	F [#]	C	D	E ^b	G	B ^b	012346789	9-5	<766674>	B: 012356789
A	G [#]	F [#]	C	D	E ^b	G	B ^b	F	01234578T	9-7	<677673>	B: 01234579T
G [#]	F [#]	C	D	E ^b	G	B ^b	F	B	01235679T	9-11	<667773>	B: 01235689T
F [#]	C	D	E ^b	G	B ^b	F	B	E	012345789	9-4	<766773>	B: 012456789
C	D	E ^b	G	B ^b	F	B	E	C [#]	012345679	9-2	<777663>	B: 023456789

SI AITN 60 – Decachords:

C	D	E ^b	G	B ^b	F	B	E	C [#]	A	012345678T	10-2*	<898884>
D	E ^b	G	B ^b	F	B	E	C [#]	A	G [#]	012346789T	10-6*	<888885>
E ^b	G	B ^b	F	B	E	C [#]	A	G [#]	F [#]	012345678T	10-2*	<898884>
G	B ^b	F	B	E	C [#]	A	G [#]	F [#]	C	0123456789	10-1*	<988884>
B ^b	F	B	E	C [#]	A	G [#]	F [#]	C	D	012345689T	10-4*	<888984>
F	B	E	C [#]	A	G [#]	F [#]	C	D	E ^b	012345679T	10-3*	<889884>
B	E	C [#]	A	G [#]	F [#]	C	D	E ^b	G	012345789T	10-5*	<888894>
E	C [#]	A	G [#]	F [#]	C	D	E ^b	G	B ^b	012346789T	10-6*	<888885>
C [#]	A	G [#]	F [#]	C	D	E ^b	G	B ^b	F	012345789T	10-5*	<888894>
A	G [#]	F [#]	C	D	E ^b	G	B ^b	F	B	012345679T	10-3*	<889884>
G [#]	F [#]	C	D	E ^b	G	B ^b	F	B	E	012345689T	10-4*	<888984>
F [#]	C	D	E ^b	G	B ^b	F	B	E	C [#]	0123456789	10-1*	<988884>
C	D	E ^b	G	B ^b	F	B	E	C [#]	A	012345678T	10-2*	<898884>

Carter's Original List of SI AITN Chords

- | | |
|-----------------|-----------------|
| 1. 274316E985T | 45. 45E926T3178 |
| 2. 134726T589E | 46. 29E5468713T |
| 3. 274916E385T | 47. 45E326T9178 |
| 4. 194726T583E | 48. 23E5468719T |
| 5. 4523E619T78 | 49. 497126TE538 |
| 6. 19T7864523E | 50. 217946835ET |
| 7. 4529E613T78 | 51. 437126TE598 |
| 8. 13T7864529E | 52. 217346895ET |
| 9. 589T16E2347 | 53. 358126TE479 |
| 10. 1T98567432E | 54. 218536974ET |
| 11. 583T16E2947 | 55. 374ET621859 |
| 12. 1T38567492E | 56. 218596374ET |
| 13. 347216ET589 | 57. 538ET621497 |
| 14. 127436985TE | 58. 214976538ET |
| 15. 385TE612749 | 59. 598ET621437 |
| 16. 127496385TE | 60. 214376598ET |
| 17. 3T7816E4529 | 61. 4791T62E358 |
| 18. 187T369254E | 62. 2E35864791T |
| 19. 3254E6187T9 | 63. 4731T62E958 |
| 20. 187T963254E | 64. 2E95864731T |
| 21. 529416E83T7 | 65. 479E26T1358 |
| 22. 1492567T38E | 66. 2E97468531T |
| 23. 523416E89T7 | 67. 473E26T1958 |
| 24. 1432567T98E | 68. 2E37468591T |
| 25. 3E8726T5419 | 69. 4ET73695218 |
| 26. 278E369145T | 70. 37TE4681259 |
| 27. 3145T6278E9 | 71. 4ET79635218 |
| 28. 278E963145T | 72. 3521864ET79 |
| 29. 491726T5E38 | 73. 5TE83694127 |
| 30. 27194683E5T | 74. 38ET5672149 |
| 31. 431726T5E98 | 75. 5TE89634127 |
| 32. 27134689E5T | 76. 3412765TE89 |
| 33. 4137T6259E8 | 77. 54E2369T187 |
| 34. 259E864137T | 78. 32E456781T9 |
| 35. 4197T6253E8 | 79. 54E2963T187 |
| 36. 253E864197T | 80. 3T187654E29 |
| 37. 413526T79E8 | 81. 45T1369E278 |
| 38. 2531468E97T | 82. 31T546872E9 |
| 39. 419526T73E8 | 83. 45T1963E278 |
| 40. 2591468E37T | 84. 3E278645T19 |
| 41. 4E5326T9718 | 85. 592E4681T37 |
| 42. 235E468179T | 86. 4E295673T18 |
| 43. 4E5926T3718 | 87. 4E235679T18 |
| 44. 295E468173T | 88. 532E4681T97 |

Note: Carter lists 88 Symmetrically Inverted (SI) AITN chords, but the list **does not include R, I or RI versions**. Carter always pivots his 88 SI AITN chords around the interval of a tritone and the lowest pitch of the chord is always considered as 0 or Prime.

SI AITN Chords – Tritone Pivot

- | | |
|------------------|------------------|
| 1. 27431 6 E985T | 45.45E92 6 T3178 |
| 2. 13472 6 T589E | 46.29E54 6 8713T |
| 3. 27491 6 E385T | 47.45E32 6 T9178 |
| 4. 19472 6 T583E | 48.23E54 6 8719T |
| 5. 4523E 6 19T78 | 49.49712 6 TE538 |
| 6. 19T78 6 4523E | 50.21794 6 835ET |
| 7. 4529E 6 13T78 | 51.43712 6 TE598 |
| 8. 13T78 6 4529E | 52.21734 6 895ET |
| 9. 589T1 6 E2347 | 53.35812 6 TE479 |
| 10.1T985 6 7432E | 54.21853 6 974ET |
| 11.583T1 6 E2947 | 55.374ET 6 21859 |
| 12.1T385 6 7492E | 56.21859 6 374ET |
| 13.34721 6 ET589 | 57.538ET 6 21497 |
| 14.12743 6 985TE | 58.21497 6 538ET |
| 15.385TE 6 12749 | 59.598ET 6 21437 |
| 16.12749 6 385TE | 60.21437 6 598ET |
| 17.3T781 6 E4529 | 61.4791T 6 2E358 |
| 18.187T3 6 9254E | 62.2E358 6 4791T |
| 19.3254E 6 187T9 | 63.4731T 6 2E958 |
| 20.187T9 6 3254E | 64.2E958 6 4731T |
| 21.52941 6 E83T7 | 65.479E2 6 T1358 |
| 22.14925 6 7T38E | 66.2E974 6 8531T |
| 23.52341 6 E89T7 | 67.473E2 6 T1958 |
| 24.14325 6 7T98E | 68.2E374 6 8591T |
| 25.3E872 6 T5419 | 69.4ET73 6 95218 |
| 26.278E3 6 9145T | 70.37TE4 6 81259 |
| 27.3145T 6 278E9 | 71.4ET79 6 35218 |
| 28.278E9 6 3145T | 72.35218 6 4ET79 |
| 29.49172 6 T5E38 | 73.5TE83 6 94127 |
| 30.27194 6 83E5T | 74.38ET5 6 72149 |
| 31.43172 6 T5E98 | 75.5TE89 6 34127 |
| 32.27134 6 89E5T | 76.34127 6 5TE89 |
| 33.4137T 6 259E8 | 77.54E23 6 9T187 |
| 34.259E8 6 4137T | 78.32E45 6 781T9 |
| 35.4197T 6 253E8 | 79.54E29 6 3T187 |
| 36.253E8 6 4197T | 80.3T187 6 54E29 |
| 37.41352 6 T79E8 | 81.45T13 6 9E278 |
| 38.25314 6 8E97T | 82.31T54 6 872E9 |
| 39.41952 6 T73E8 | 83.45T19 6 3E278 |
| 40.25914 6 8E37T | 84.3E278 6 45T19 |
| 41.4E532 6 T9718 | 85.592E4 6 81T37 |
| 42.235E4 6 8179T | 86.4E295 6 73T18 |
| 43.4E592 6 T3718 | 87.4E235 6 79T18 |
| 44.295E4 6 8173T | 88.532E4 6 81T97 |

Note: Carter lists 88 Symmetrically Inverted (SI) AITN chords, but the list does not include R, I or RI versions. Carter always pivots his 88 SI AITN chords around the interval of a **tritone** and the lowest pitch of the chord is always considered as 0 or Prime.

SI AITN Chords: All-Triad Hexachord (ATH)

1. 27431 6 E985T/27431 6 E985T
2. 13472 6 T589E
3. 27491 6 E385T/27491 6 E385T
4. 19472 6 T583E
5. 4523E 6 19T78
6. 19T78 6 4523E
7. 4529E 6 13T78
8. 13T78 6 4529E
9. 589T1 6 E2347
10. 1T985 6 7432E
11. 583T1 6 E2947
12. 1T385 6 7492E
13. 34721 6 ET589
14. 12743 6 985TE
15. 385TE 6 12749
16. 12749 6 385TE
17. 3T781 6 E4529
18. 187T3 6 9254E
19. 3254E 6 187T9
20. 187T9 6 3254E
21. 52941 6 E83T7
22. 14925 6 7T38E
23. 52341 6 E89T7
24. 14325 6 7T98E
25. 3E872 6 T5419
26. 278E3 6 9145T
27. 3145T 6 278E9
28. 278E9 6 3145T
29. 49172 6 T5E38
30. 27194 6 83E5T
31. 43172 6 T5E98
32. 27134 6 89E5T
33. 4137T 6 259E8
34. 259E8 6 4137T
35. 4197T 6 253E8
36. 253E8 6 4197T
37. 41352 6 T79E8
38. 25314 6 8E97T
39. 41952 6 T73E8
40. 25914 6 8E37T
41. 4E532 6 T9718
42. 235E4 6 8179T
43. 4E592 6 T3718
44. 295E4 6 8173T
45. 45E92 6 T3178
46. 29E54 6 8713T
47. 45E32 6 T9178
48. 23E54 6 8719T
49. 49712 6 TE538
50. 21794 6 835ET
51. 43712 6 TE598
52. 21734 6 895ET
53. 35812 6 TE479
54. 21853 6 974ET
55. 374ET 6 21859
56. 21859 6 374ET
57. 538ET 6 21497
58. 21497 6 538ET/21497 6 538ET
59. 598ET 6 21437
60. 21437 6 598ET/2143 7 6 598ET
61. 4791T 6 2E358
62. 2E358 6 4791T
63. 4731T 6 2E958
64. 2E958 6 4731T
65. 479E2 6 T1358
66. 2E974 6 8531T
67. 473E2 6 T1958
68. 2E374 6 8591T
69. 4ET73 6 95218
70. 37TE4 6 81259
71. 4ET79 6 35218
72. 35218 6 4ET79
73. 5TE83 6 94127
74. 38ET5 6 72149
75. 5TE89 6 34127
76. 34127 6 5TE89
77. 54E23 6 9T187
78. 32E45 6 781T9
79. 54E29 6 3T187
80. 3T187 6 54E29
81. 45T13 6 9E278
82. 31T54 6 872E9
83. 45T19 6 3E278
84. 3E278 6 45T19
85. 592E4 6 81T37
86. 4E295 6 73T18
87. 4E235 6 79T18
88. 532E4 6 81T97

Note: Only four SI AITN Chords subsume the ATH in prime form: 1, 3, 58 and 60. The ATH subsume the AIT. The AIT subsumes all interval classes: Palindromes within palindromes. Also note that Carter does not list R, I or RI versions of the SI AITN Chords.

SI AITN – Listed Parent Hexachord

- | | |
|-------------------------|-------------------------|
| 1. 27431 6 E985T (6-14) | 45.45E92 6 T3178 (6-14) |
| 2. 13472 6 T589E (6-14) | 46.29E54 6 8713T (6-14) |
| 3. 27491 6 E385T (6-1) | 47.45E32 6 T9178 (6-14) |
| 4. 19472 6 T583E (6-1) | 48.23E54 6 8719T (6-14) |
| 5. 4523E 6 19T78 (6-8) | 49.49712 6 TE538 (6-14) |
| 6. 19T78 6 4523E (6-8) | 50.21794 6 835ET (6-14) |
| 7. 4529E 6 13T78 (6-14) | 51.43712 6 TE598 (6-8) |
| 8. 13T78 6 4529E (6-14) | 52.21734 6 895ET (6-8) |
| 9. 589T1 6 E2347 (6-14) | 53.35812 6 TE479 (6-14) |
| 10.1T985 6 7432E (6-14) | 54.21853 6 974ET (6-14) |
| 11.583T1 6 E2947 (6-1) | 55.374ET 6 21859 (6-1) |
| 12.1T385 6 7492E (6-1) | 56.21859 6 374ET (6-1) |
| 13.34721 6 ET589 (6-8) | 57.538ET 6 21497 (6-14) |
| 14.12743 6 985TE (6-8) | 58.21497 6 538ET (6-14) |
| 15.385TE 6 12749 (6-1) | 59.598ET 6 21437 (6-32) |
| 16.12749 6 385TE (6-1) | 60.21437 6 598ET (6-32) |
| 17.3T781 6 E4529 (6-14) | 61.4791T 6 2E358 (6-14) |
| 18.187T3 6 9254E (6-14) | 62.2E358 6 4791T (6-14) |
| 19.3254E 6 187T9 (6-8) | 63.4731T 6 2E958 (6-1) |
| 20.187T9 6 3254E (6-8) | 64.2E958 6 4731T (6-1) |
| 21.52941 6 E83T7 (6-14) | 65.479E2 6 T1358 (6-14) |
| 22.14925 6 7T38E (6-14) | 66.2E974 6 8531T (6-14) |
| 23.52341 6 E89T7 (6-32) | 67.473E2 6 T1958 (6-1) |
| 24.14325 6 7T98E (6-32) | 68.2E374 6 8591T (6-1) |
| 25.3E872 6 T5419 (6-32) | 69.4ET73 6 95218 (6-14) |
| 26.278E3 6 9145T (6-32) | 70.37TE4 6 81259 (6-14) |
| 27.3145T 6 278E9 (6-14) | 71.4ET79 6 35218 (6-14) |
| 28.278E9 6 3145T (6-14) | 72.35218 6 4ET79 (6-14) |
| 29.49172 6 T5E38 (6-8) | 73.5TE83 6 94127 (6-8) |
| 30.27194 6 83E5T (6-8) | 74.38ET5 6 72149 (6-8) |
| 31.43172 6 T5E98 (6-14) | 75.5TE89 6 34127 (6-32) |
| 32.27134 6 89E5T (6-14) | 76.34127 6 5TE89 (6-32) |
| 33.4137T 6 259E8 (6-14) | 77.54E23 6 9T187 (6-14) |
| 34.259E8 6 4137T (6-14) | 78.32E45 6 781T9 (6-14) |
| 35.4197T 6 253E8 (6-32) | 79.54E29 6 3T187 (6-8) |
| 36.253E8 6 4197T (6-32) | 80.3T187 6 54E29 (6-8) |
| 37.41352 6 T79E8 (6-14) | 81.45T13 6 9E278 (6-14) |
| 38.25314 6 8E97T (6-14) | 82.31T54 6 872E9 (6-14) |
| 39.41952 6 T73E8 (6-32) | 83.45T19 6 3E278 (6-14) |
| 40.25914 6 8E37T (6-32) | 84.3E278 6 45T19 (6-14) |
| 41.4E532 6 T9718 (6-14) | 85.592E4 6 81T37 (6-8) |
| 42.235E4 6 8179T (6-14) | 86.4E295 6 73T18 (6-8) |
| 43.4E592 6 T3718 (6-14) | 87.4E235 6 79T18 (6-14) |
| 44.295E4 6 8173T (6-14) | 88.532E4 6 81T97 (6-14) |

Note: Carter uses the hexachord sets 012345 (6-1), 023457 (6-8), 013458 (6-14) and 024579 (6-32) for his 88 SI AITN chords. They all invert upon themselves and produce their own complement. Therefore, Carter does not list R, I or RI versions of the SI AITN.

SI AITN Retrograde Inversions

1. 27431 6 E985T (6-14)
T589E 6 13472
2. 13472 6 T589E (6-14)
E985T 6 27431
3. 27491 6 E385T (6-1)
T583E 6 19472
4. 19472 6 T583E (6-1)
E385T 6 19472
5. 4523E 6 19T78 (6-8)
87T91 6 E3254
6. 19T78 6 4523E (6-8)
E3254 6 87T91
7. 4529E 6 13T78 (6-14)
87T31 6 E9254
8. 13T78 6 4529E (6-14)
E9254 6 87T31
9. 589T1 6 E2347 (6-14)
7432E 6 1T985
10. 1T985 6 7432E (6-14)
E2347 6 589T1
11. 583T1 6 E2947 (6-1)
7492E 6 1T385
12. 1T385 6 7492E (6-1)
E2947 6 583T1
13. 34721 6 ET589 (6-8)
985TE 6 12743
14. 12743 6 985TE (6-8)
ET589 6 34721
15. 385TE 6 12749 (6-1)
94721 6 ET583
16. 12749 6 385TE (6-1)
ET583 6 94721
17. 3T781 6 E4529 (6-14)
9254E 6 187T3
18. 187T3 6 9254E (6-14)
E4529 6 3T781
19. 3254E 6 187T9 (6-8)
9T871 6 E4523
20. 187T9 6 3254E (6-8)
E4523 6 9T781
21. 52941 6 E83T7 (6-14)
7T38E 6 14925
22. 14925 6 7T38E (6-14)
E83T7 6 52941
23. 52341 6 E89T7 (6-32)
7T98E 6 14325
24. 14325 6 7T98E (6-32)
E89T7 6 52341
25. 3E872 6 T5419 (6-32)
9145T 6 278E3
26. 278E3 6 9145T (6-32)
T5419 6 3E872
27. 3145T 6 278E9 (6-14)
9E872 6 T5413
28. 278E9 6 3145T (6-14)
T5413 6 9E872
29. 49172 6 T5E38 (6-8)
83E5T 6 27194
30. 27194 6 83E5T (6-8)
T5E38 6 49172
31. 43172 6 T5E98 (6-14)
89E5T 6 27143
32. 27134 6 89E5T (6-14)
T5E98 6 43172
33. 4137T 6 259E8 (6-14)
8E952 6 T7314
34. 259E8 6 4137T (6-14)
T7314 6 8E952
35. 4197T 6 253E8 (6-32)
8E352 6 T7914
36. 253E8 6 4197T (6-32)
T7914 6 8E352
37. 41352 6 T79E8 (6-14)
8E97T 6 25314
38. 25314 6 8E97T (6-14)
T79E8 6 41352
39. 41952 6 T73E8 (6-32)
8E37T 6 25914
40. 25914 6 8E37T (6-32)
T73E8 6 41952
41. 4E532 6 T9718 (6-14)
8179T 6 235E4
42. 235E4 6 8179T (6-14)
T9718 6 4E532
43. 4E592 6 T3718 (6-14)
8173T 6 295E4
44. 295E4 6 8173T (6-14)
T3718 6 4E592
45. 45E92 6 T3178 (6-14)
8713T 6 29E54
46. 29E54 6 8713T (6-14)
T3178 6 45E92
47. 45E32 6 T9178 (6-14)
8719T 6 23E54
48. 23E54 6 8719T (6-14)
T9178 6 45E32

49.49712 6 TE538 (6-14) 835ET 6 21794	69.4ET73 6 95218 (6-14) 81259 6 37TE4
50.21794 6 835ET (6-14) TE538 6 49712	70.37TE4 6 81259 (6-14) 95218 6 4ET73
51.43712 6 TE598 (6-8) 895ET 6 21734	71.4ET79 6 35218 (6-14) 81253 6 97TE4
52.21734 6 895ET (6-8) TE598 6 43712	72.35218 6 4ET79 (6-14) 97TE4 6 81253
53.35812 6 TE479 (6-14) 974ET 6 21853	73.5TE83 6 94127 (6-8) 72149 6 38ET5
54.21853 6 974ET (6-14) TE479 6 35812	74.38ET5 6 72149 (6-8) 94127 6 5TE83
55.374ET 6 21859 (6-1) 95812 6 TE473	75.5TE89 6 34127 (6-32) 72143 6 98ET5
56.21859 6 374ET (6-1) TE473 6 95812	76.34127 6 5TE89 (6-32) 98ET5 6 72143
57.538ET 6 21497 (6-14) 79412 6 TE835	77.54E23 6 9T187 (6-14) 781T9 6 32E45
58.21497 6 538ET (6-14) TE835 6 79412	78.32E45 6 781T9 (6-14) 9T187 6 54E23
59.598ET 6 21437 (6-32) 73412 6 TE895	79.54E29 6 3T187 (6-8) 781T3 6 92E45
60.21437 6 598ET (6-32) TE895 6 73412	80.3T187 6 54E29 (6-8) 92E45 6 781T3
61.4791T 6 2E358 (6-14) 853E2 6 T1974	81.45T13 6 9E278 (6-14) 872E9 6 31T54
62.2E358 6 4791T (6-14) T1974 6 853E2	82.31T54 6 872E9 (6-14) 9E278 6 45T13
63.4731T 6 2E958 (6-1) 859E2 6 T1374	83.45T19 6 3E278 (6-14) 872E3 6 91T54
64.2E958 6 4731T (6-1) T1374 6 859E2	84.3E278 6 45T19 (6-14) 91T54 6 872E3
65.479E2 6 T1358 (6-14) 8531T 6 2E974	85.592E4 6 81T37 (6-8) 73T18 6 4E295
66.2E974 6 8531T (6-14) T1358 6 479E2	86.4E295 6 73T18 (6-8) 81T37 6 592E4
67.473E2 6 T1958 (6-1) 8591T 6 2E374	87.4E235 6 79T18 (6-14) 81T97 6 532E4
68.2E374 6 8591T (6-1) T1958 6 473E2	88.532E4 6 81T97 (6-14) 79T18 6 4E235

Note:

Carter does not consider R, I or RI versions as different chords, so *The Harmony Book* never lists them. SI AITN 1, 3, 58 and 60 are the only SI AITN to contain the ATH as a contiguous subset. The ATH is also subsumed (again within prime form) within the R, I and RI versions. The ATH subsumes the AIT – The AIT subsumes all interval classes ...

PI (Parallel Inverted) AITN Chords – Parent Hexachords

Carter uses the following nine hexachord types for his 60 Parallel-Inverted All-Interval Twelve-Note (PI AITN) Chords:

1. 6-1 (Carter 4): 012345: Chromatic Hexamirror/1st ord. All combinatorial (P6, Ib, RI5) <543210> * [Also used in SI AITN Chords.](#) *
2. 6-2 (Carter 19): 012346: Combinatorial I (b) <443211>
6-2b: 023456: Combinatorial I (1) <443211>
3. 6-8 (Carter 5): 023457: 1st ord. All combinatorial (P6, Ib, RI5) <343230>
4. 6-9 (Carter 20): 012357: Combinatorial I (b) <342231>
6-9b: 024567: Combinatorial I (3) (Note: Two AIT) <342231> *
5. 6-15 (Carter 13): 012458: Combinatorial I (b) <323421>
6-15B: 034678: Combinatorial I (5), <323421>
6. 6-16 (Carter 11): 014568: Combinatorial I (3) <322431>
6-16b: 023478: Megha or 'Cloud' Raga/Combinatorial I (1) <322431>
7. 6-31 (Carter 8): 013589: Combinatorial I (7) <223431>
6-31b: 014689: Combinatorial I (b), <223431>
8. 6-32 (Carter 6): 024579: Arezzo major Diatonic, major hexamirror, quartal hexamirror, 1st ord. All-combinatorial P (6), I (3), RI (9) <143250>
* [Also used in SI AITN Chords.](#) *
9. 6-33 (Carter 18): 023579: Dorian Hexachord Combinatorial I (1) <143241>
6-33b: 024679: Dominant-11th/Lydian Hexachord/Combinatorial I (5) <143241>

Note:

- i. Hexachord 6-9 (012357) and 6-9b (024567) are combinatorial chords (self-contained palindromes) subsuming two All-Interval Tetrachords (AIT): 4-z15b (0256) and 4-z29b (0467).
- ii. Hexachords 6-1 (012345) and 6-32 (024579) are also used as the parent hexachords for symmetrically inverted versions of Carter's AITN Chords.

Parallel Inverted All-Interval Twelve-Note (PI AITN) Chords

1. 473E2 6 8591T (6-1)
T1958 6 2E374
8591T 6 473E2
2E374 6 T1958
2. 27491 6 T583E (6-1)
E385T 6 19472
T583E 6 27491
19472 6 E385T
3. 87T91 6 4523E (6-8)
E3254 6 19T78
4523E 6 87T91
19T78 6 E3254
4. 592E4 6 73T18 (6-8)
81T37 6 4E295
73T18 6 592E4
4E295 6 81T37
5. 41952 6 8E37T (6-32)
T73E8 6 25914
8E37T 6 41952
25914 6 T73E8
6. 53412 6 798ET (6-32)
TE897 6 21435
798ET 6 53412
21435 6 TE897
7. 5E423 6 718T9 (6-31)
9T817 6 324E5
718T9 6 5E423
324E5 6 9T817
8. 315T4 6 9E728 (6-31)
827E9 6 4T513
4T513 6 827E9
9E728 6 315T4
9. 59241 6 73T8E (6-31)
E8T37 6 14295
73T8E 6 59241
14295 6 E8T37
10. 52134 6 7TE98 (6-31)
89ET7 6 43125
7TE98 6 52134
43125 6 89ET7
11. 451T9 6 87E23 (6-16)
32E78 6 9T154
87E23 6 451T9
9T154 6 32E78
12. 81529 6 4E7T3 (6-16)
3T7E4 6 92518
4E7T3 6 81529
92518 6 3T7E4
13. 4315T 6 89E72 (6-16)
27E98 6 T5134
89E72 6 4315T
T5134 6 27E98
14. 38512 6 947ET (6-16)
TE749 6 21583
947ET 6 38512
21583 6 TE749
15. 3T871 6 9245E (6-15)
E5429 6 178T3
9245E 6 3T871
178T3 6 E5429
16. 835T1 6 4972E (6-15)
E2794 6 1T538
4972E 6 835T1
1T538 6 E2794
17. E3247 6 19T85 (6-15)
58T91 6 7423E
19T85 6 E3247
7423E 6 58T91
18. 82153 6 4TE79 (6-15)
97ET4 6 35128
4TE79 6 82153
35128 6 97ET4
19. 9154T 6 3E782 (6-33)
287E3 6 T4519
3E782 6 9154T
T4519 6 287E3
20. 82791 6 4T53E (6-33)
E35T4 6 19728
4T53E 6 82791
19728 6 E35T4
21. 34217 6 98TE5 (6-33)
5ET89 6 71243
98TE5 6 34217
71243 6 5ET89
22. 53241 6 97T8E (6-33)
E8T97 6 14235
97T8E 6 53241
14235 6 E8T97
23. 58T31 6 7429E (6-2)
E9247 6 13T85
7429E 6 58T31
13T85 6 E9247
24. 28159 6 T4E73 (6-2)
37E4T 6 95182
T4E73 6 28159
95182 6 37E4T

25.94271 6 38T5E (6-2)	28.3524E 6 97T81 (6-9) *
E5T83 6 17249	18T79 6 E4253
38T5E 6 94271	97T81 6 3524E
17249 6 E5T83	E4253 6 18T79
26.82137 6 4TE95 (6-2)	29.72419 6 5T8E3 (6-9) *
59ET4 6 73128	3E8T5 6 91427
4TE95 6 82137	5T8E3 6 72419
73128 6 59ET4	91427 6 3E8T5
27.31T85 6 9E247 (6-9) *	30.37421 6 958TE (6-9) *
742E9 6 58T13	ET859 6 12473
9E247 6 31T85	958TE 6 37421
58T13 6 742E9	12473 6 ET859

Note:

Analysts have highlighted further variations of the SI and PI AITN Chords (Link Chords).

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SI AITN 1

Prime Form [C]

Ian Percy

SI AITN 1 Prime [Interval]: 27431 6 E985T. [Literal]: 029145 ET87386

Parent: 6-14: 013458/034578 6-14: 013458 (all-combinatorial)

4-4: 0125 4-9: 0167 4-4: 0125

3-7: 025 3-3: 014 3-3: 014 3-7: 025

6-30: 013679 (all-combinatorial)
6-30 subsumes both 4-z15 (AIT)

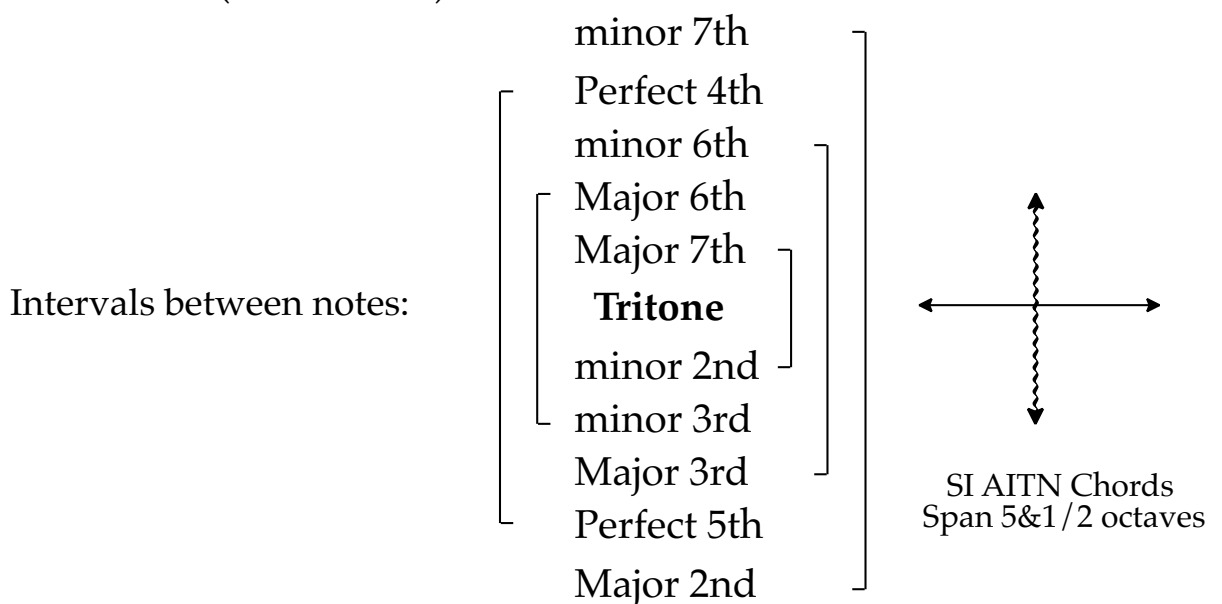
M2 P5 M3 m3 m2 Tt M7 M6 m6 P4 m7
0 2 9 1 4 5 11 10 7 3 8 6

6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

Trichords: 0&3 = 3-7. 2&7 = 3-4. 9&T = 3-11. 1&E = 3-3. 4&5 = 3-5. 8&6 = 3-8.
Tetrachords: 0&7 = 4-4. 2&T = 4-14. 9&E = 4-19. **1&5 = 4-z15.** 4* = 4-9. 3&6 = 4-27. 8* = 4-25.
Pentachords: 0&T = 5-11. 2&E = 5-z17. 9&5 = 5-30. 1&4 = 5-19. 7&6 = 5-z38. 3&8 = 5-28.
Hexachords: 0&E = 6-14. 2&5 = 6-z24. **9&4 = 6-z17.** 1&3 = 6-30. T&6 = 6-z46. 7&8 = 6-z43.

SI AITN 1: (Prime form)



Transposable Bass Tone →

Note: The **inversion** of SI AITN 1 would be a more idiomatic choice for vertical orchestration and orchestral balance, as then most of the larger interval types would be in the bass register (space for resonance), but this prime form is far more lyrical as a linear line ...

SI AITN 1

Inversion [C]

Ian Percy

SI AITN 1 Inversion [Interval]: T589E 6 13472. [Literal]: 0T3E87 125946

Parent: 6-14: 013458/034578 6-14: 013458 (all-combinatorial)

4-4: 0125 4-9: 0167 4-4: 0125

3-7: 025 3-3: 014 3-3: 014 3-7: 025

6-30: 013679 (all-combinatorial)
6-30 subsumes both 4-z15 (AIT)

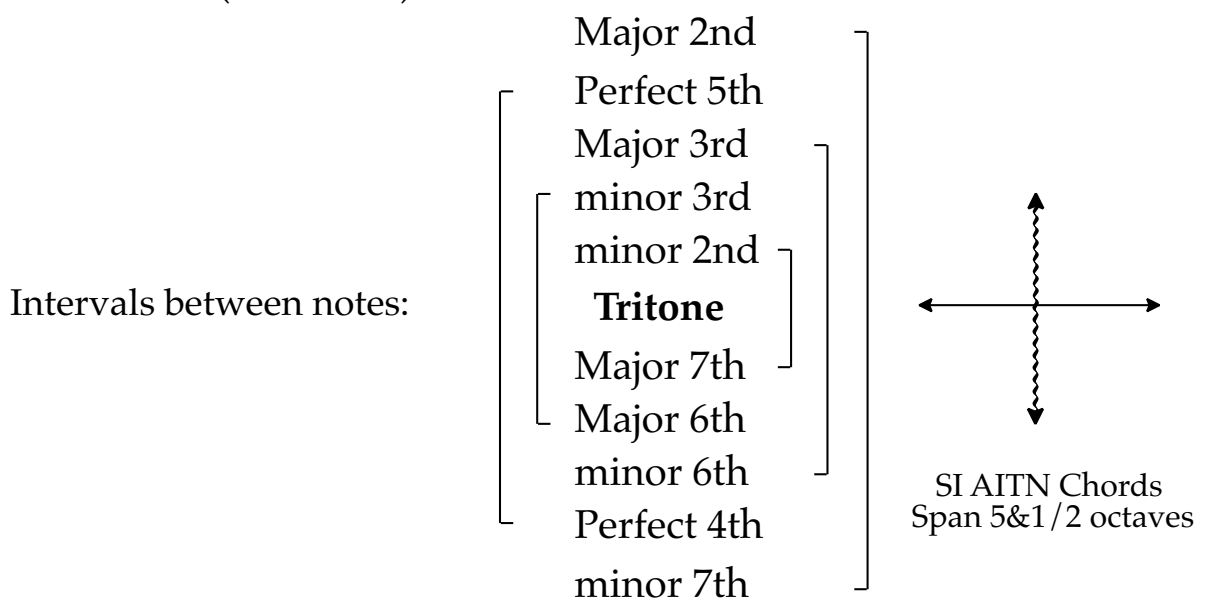
m7 P4 m6 M6 M7 Tt m2 m3 M3 P5 M2
0 10 3 11 8 7 1 2 5 9 4 6

6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

- Trichords:** 0&9 = 3-7. T&5 = 3-4. 3&2 = 3-11. E&1 = 3-3. 8&7 = 3-5. 4&6 = 3-8.
Tetrachords: 0&5 = 4-4. T&2 = 4-14. 3&1 = 4-19. E&7 = 4-z15. 8* = 4-9. 9&6 = 4-27. 4* = 4-25.
Pentachords: 0&2 = 5-11. T&1 = 5-z17. 3&7 = 5-30. E&8 = 5-19. 5&6 = 5-z38. 9&4 = 5-28.
Hexachords: 0&1 = 6-14. T&7 = 6-z24. 3&8 = 6-z17. E&9 = 6-30. 2&6 = 6-z46. 5&4 = 6-z43.

SI AITN 1: (Inversion)



Transposable Bass Tone →

Note: This inversion of SI AITN 1 is a more idiomatic choice for vertical orchestration and orchestral balance as most of the larger interval types are in the bass register (allowing space for resonance), but the prime form is more lyrical as a linear line ...

SI AITN 1 Prime [C]: 27431 6 E985T/029145 ET87386

complement: 06 (tritone)

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

Decachord 10-6: 012346789T **Messiaen Mode VII**

SI AITN 1 Prime: 27431 6 E985T

complement 4-25: 0268

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

Octachord 8-25: 0124678T **Messiaen Mode VI** (Subsumes both ATH 6-z17)

SI AITN 1 Prime: 27431 6 E985T

complement 6-30: 013679

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

Hexachord 6-30: 013679 (Subsumes both AIT 4-z15)

SI AITN 1 Prime: 27431 6 E985T

complement 8-9: 01236789 **Messiaen Mode IV**

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

Tetrachord 4-9: 0167

SI AITN 1 Prime: 27431 6 E985T

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

tritone pivot: 06 (complement to 10-6)

SI AITN 1 Prime: 27431 6 E985T

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

SI AITN 1 Inversion [C]: T589E 6 13472/0T3E87 125946

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

Pentachord 5-z17: 01348 Pentachord 5-z17: 01348

SI AITN 1 Inversion: T589E 6 13472

complement 4-25: 0268

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

Tetrachord 4-19: 0148 Tetrachord 4-19: 0148

SI AITN 1 Inversion: T589E 6 13472

complement 6-30: 013679

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

Trichord 3-7: 025 Trichord 3-3: 014 Trichord 3-3: 014 Trichord 3-7: 025

SI AITN 1 Inversion: T589E 6 13472

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

Interval class 1 (min2/Maj7)

SI AITN 1 Inversion: T589E 6 13472

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

tritone pivot: 06 (complement to 10-6)

SI AITN 1 Inversion: T589E 6 13472

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

SI AITN 1

Combined 20-note Scale [C]

Ian Percy

Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Inverted Decachord 10-1: 0123456789

4-z15: 0146 (AIT)

6-z17: 012478 (ATH) M2 Pivot

M2 P5 m2 m3 M2 m2 m2 Tt M6 M2 M6 Tt m2 m2 M2 m3 m2 P5 M2
0 2 9 10 1 3 4 5 11 8 10 7 1 2 3 5 8 9 4 6

M2 Pivot 6-z17: 012478 (ATH)

4-z15: 0146 (AIT)

Prime Form Decachord 10-1: 0123456789

SI AITN 1: (Combined Scale)

Intervals between notes:

- Major 2nd
- Perfect 5th
- minor 2nd
- minor 3rd
- Major 2nd
- minor 2nd
- minor 2nd
- Tritone**
- Major 6th
- Major 2nd**
- Major 6th
- Tritone**
- minor 2nd
- minor 2nd
- Major 2nd
- minor 3rd
- minor 2nd
- Perfect 5th
- Major 2nd

Combined Scale
Spans 5&1/2 octaves

Transposable Bass Tone: →

SI AITN 3

Prime Form [C]

Ian Percy

SI AITN 3 Prime [Interval]: 27491 6 E385T. [Literal]: 0291TE 547386

Parent: 6-1: 012345 6-1: 012345 (all-combinatorial)

4-4: 0125 4-9: 0167 4-4: 0125

3-7: 025 3-2: 013 3-2: 013 3-7: 025

6-30: 013679 (all-combinatorial)

6-30 subsumes both 4-z29 (AIT)

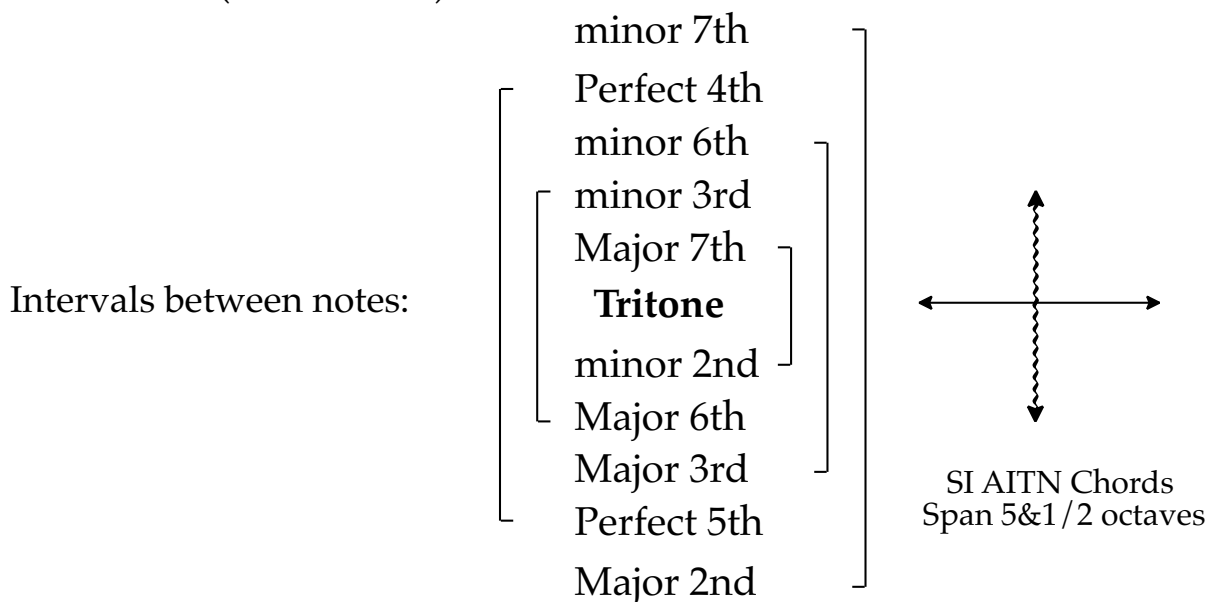
M2 P5 M3 M6 m2 Tt M7 m3 m6 P4 m7
0 2 9 1 10 11 5 4 7 3 8 6

6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

Trichords: 0&3 = 3-7. 2&7 = 3-4. 9&4 = 3-3. 1&5 = 3-2. T&E = 3-5. 8&6 = 3-8.
Tetrachords: 0&7 = 4-4. 2&4 = 4-7. 9&5 = 4-2. 1&E = 4-z29. T* = 4-9. 3&6 = 4-27. 8* = 4-25.
Pentachords: 025&4 = 5-3. 9&E = 5-13. 1&T = 5-19. 7&6 = 5-z38. 3&8 = 5-28.
Hexachords: 0&5 = 6-1. 2E4&6 = 6-15. 9&T = 6-z17. 1&3 = 6-30. 7&8 = 6-z43.

SI AITN 3: (Prime form)



Transposable Bass Tone →

Note: SI AITN 3 only has two intervals changed in comparison to SI AITN 1 (min3/Maj6). Perhaps this is too similar for composition? SI AITN 3 could start from a different prime root to enhance a sense of change: Perhaps use 0 = Eb [no.3] in the overall pitch scheme?

SI AITN 3

Inversion [C]

Ian Percy

SI AITN 3 Inversion [Interval]: T583E 6 19472. [Literal]: 0T3E21 785946

Parent: 6-1: 012345 6-1: 012345 (all-combinatorial)

4-4: 0125 4-9: 0167 4-4: 0125

3-7: 025 3-2: 013 3-2: 013 3-7: 025

6-30: 013679 (all-combinatorial)
6-30 subsumes both 4-z29 (AIT)

m7 0 P4 10 m6 3 m3 11 M7 2 Tt 1 m2 7 M6 8 M3 5 P5 9 M2 6

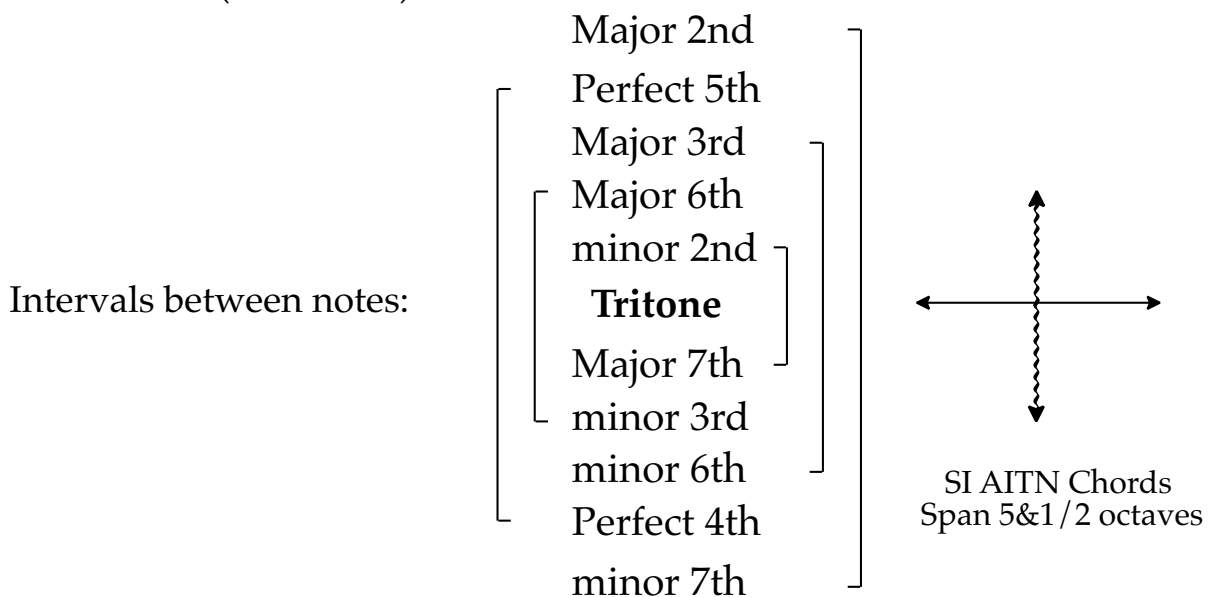
pivot

6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

Trichords: 0&9 = 3-7. T&5 = 3-4. 3&8 = 3-3. E&7 = 3-2. 2&1 = 3-5. 4&6 = 3-8.
Tetrachords: 0&5 = 4-4. T&8 = 4-7. 3&7 = 4-2. E&1 = 4-z29. 2* = 4-9. 9&6 = 4-27. 4* = 4-25.
Pentachords: 0T7&8 = 5-3. 3&1 = 5-13. E&2 = 5-19. 5&6 = 5-z38. 9&4 = 5-28.
Hexachords: 0&7 = 6-1. T18&6 = 6-15. 3&2 = 6-z17. E&9 = 6-30. 5&4 = 6-z43.

SI AITN 3: (Inversion)



Transposable Bass Tone →

Note: Unlike the other options, SI AITN 3 has a fairly equal balance in division of the larger interval types, so both versions (Prime and Inversion) are suitable for orchestral balance and orchestration. Perhaps use 0 = Eb [no.3] in the overall pitch scheme?

SI AITN 3 Prime [C]: 27491 6 E385T / 0291TE 547386

complement 06 (tritone)

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4. A bracket underlines the first ten notes (0-9).

Decachord 10-6: 012346789T **Messiaen Mode VII**

SI AITN 3 Prime: 27491 6 E385T

complement 4-25: 0268

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4. A bracket underlines the first eight notes (0-7).

Octachord 8-25: 0124678T **Messiaen Mode VI** (Subsumes both ATH 6-z17)

SI AITN 3 Prime: 27491 6 E385T

complement 6-30: 013679

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4. A bracket underlines the first six notes (0-5).

Hexachord 6-30: 013679 (Subsumes both AIT 4-z29)

SI AITN 3 Prime: 27491 6 E385T

complement 8-9: 01236789 **Messiaen Mode IV**

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4. A bracket underlines the first four notes (0-3).

Tetrachord 4-9: 0167

SI AITN 3 Prime: 27491 6 E385T

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4. A bracket underlines the last two notes (10-11).

tritone pivot: 06 (complement to 10-6)

SI AITN 3 Prime: 27491 6 E385T

A musical staff in treble clef with a key signature of one sharp (F#). The notes are: C4, D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4.

SI AITN 3 Inversion [C]: T583E 6 19472/0T3E21 785946

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

Pentachord 5-3: 01245 Pentachord 5-3: 01245

SI AITN 3 Inversion: T583E 6 19472

complement 4-25: 0268

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

Tetrachord 4-2: 0124 Tetrachord 4-2: 0124

SI AITN 3 Inversion: T583E 6 19472

complement 6-30: 013679

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

Trichord 3-7: 025 Trichord 3-2: 013 Trichord 3-2: 013 Trichord 3-7: 025

SI AITN 3 Inversion: T583E 6 19472

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

Interval class 1 (min2/Maj7)

SI AITN 3 Inversion: T583E 6 19472

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

tritone pivot: 06 (complement to 10-6)

SI AITN 3 Inversion: T583E 6 19472

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

SI AITN 3

Combined 20-note Scale [C]

Ian Percy

Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Note: Does not contain ATH*

Inverted Octachord 8-2: 01234568

4-z15: 0146 (AIT)

m6 pivot

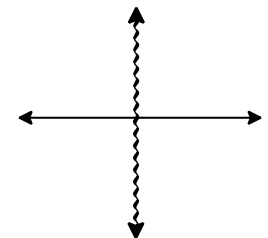
M2	P5	m2	m3	M2	P5	m2	m3	m3	m6	m3	m3	m2	P5	M2	m3	m2	P5	M2	
0	2	9	10	1	3	10	11	2	5	1	4	7	8	3	5	8	9	4	6

Prime Form Octachord 8-2: 01234568

SI AITN 3: (Combined Scale)

Intervals between notes:

- Major 2nd
- Perfect 5th
- minor 2nd
- minor 3rd
- Major 2nd
- Perfect 5th
- minor 2nd
- minor 3rd
- minor 3rd
- minor 6th**
- minor 3rd
- minor 3rd
- minor 2nd
- Perfect 5th
- Major 2nd
- minor 3rd
- minor 2nd
- Perfect 5th
- Major 2nd



Combined Scale
Spans 5&1/2 octaves

Transposable Bass Tone: →

SI AITN 58

Prime Form [C]

Ian Percy

SI AITN 58 Prime [Interval]: 21497 6 538ET. [Literal]: 02374E 5T1986

Parent: **6-14:** 013458 / 034578 **6-14:** 013458 (all-combinatorial)

4-14: 0237 4-9: 0167 4-14: 0237

3-2: 013 3-11: 037 3-11: 037 3-2: 013

6-30: 013679 (all-combinatorial)
6-30 subsumes both **4-z29** (AIT)

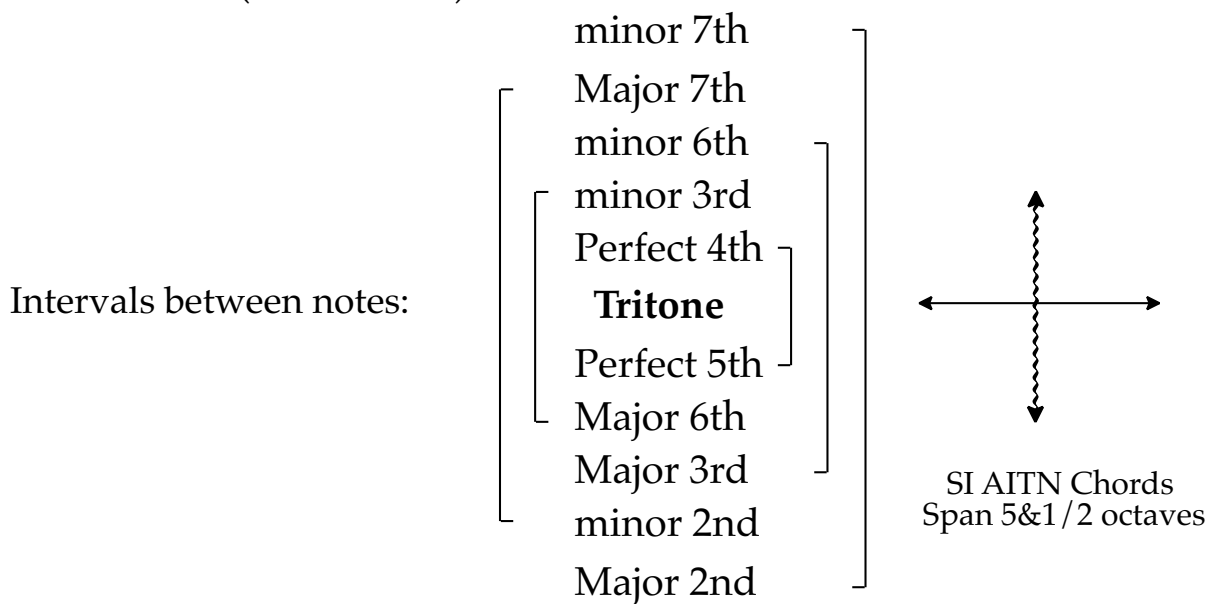
M2 m2 M3 M6 P5 Tt P4 m3 m6 M7 m7
0 2 3 7 4 11 5 10 1 9 8 6

6-z17: 012478 / 014678 (ATH)

6-z17: 012478 / 014678 (ATH)

- Trichords:** 0&9 = 3-2. 2&1 = 3-4. 3&T = 3-3. 7&5 = 3-11. 4&E = 3-5. 8&6 = 3-8.
Tetrachords: 0&1 = 4-14. 2&T = 4-4. 3&5 = 4-19. 7&E = 4-z29. 4* = 4-9. 9&6 = 4-12. 8* = 4-25.
Pentachords: 0&T = 5-11. 2&5 = 5-z37. 3&E = 5-13. 7&4 = 5-19. 1&6 = 5-z18. 9&8 = 5-28.
Hexachords: 0&5 = 6-14. 2&E = 6-z39. 3&4 = 6-z17. 7&9 = 6-30. T&6 = 6-z10. 1&8 = 6-z43.

SI AITN 58: (Prime form)



Note: The **inversion** of SI AITN 58 would be a more idiomatic choice for vertical orchestration and orchestral balance, as then most of the larger interval types would be in the bass register (space for resonance) ... Perhaps use **0 = Bb** [no.58] in the overall pitch scheme?

SI AITN 58

Inversion [C]

Ian Percy

SI AITN 58 Inversion [Interval]: ET835 6 79412. [Literal]: 0T9581 72E346

Parent: **6-14:** 013458 / 034578 **6-14:** 013458 (all-combinatorial)

4-14: 0237 4-9: 0167 4-14: 0237

3-2: 013 3-11: 037 3-11: 037 3-2: 013

6-30: 013679 (all-combinatorial)
6-30 subsumes both **4-z29** (AIT)

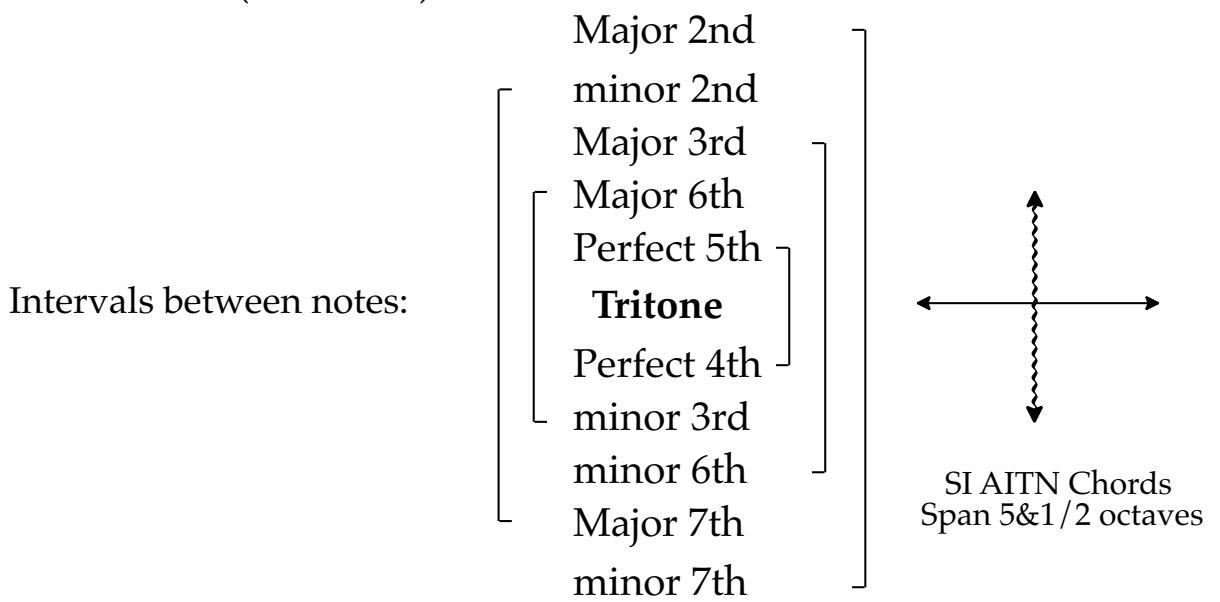
m7 M7 m6 m3 P4 Tt P5 M6 M3 m2 M2
0 10 9 5 8 1 7 2 11 3 4 6

6-z17: 012478 / 014678 (ATH)

6-z17: 012478 / 014678 (ATH)

- Trichords:** 0&3 = 3-2. T&E = 3-4. 9&2 = 3-3. 5&7 = 3-11. 8&1 = 3-5. 4&6 = 3-8.
Tetrads: 0&E = 4-14. T&2 = 4-4. 9&7 = 4-19. **5&1 = 4-z29**. 8* = 4-9. 3&6 = 4-12. 4* = 4-25.
Pentads: 0&2 = 5-11. T&7 = 5-z37. 9&1 = 5-13. 5&8 = 5-19. E&6 = 5-z18. 3&4 = 5-28.
Hexads: **0&7 = 6-14**. T&1 = 6-z39. **9&8 = 6-z17**. 5&3 = 6-30. 2&6 = 6-z10. E&4 = 6-z43.

SI AITN 58: (Inversion)



Transposable Bass Tone →

Note: This **inversion** of SI AITN 58 is a more idiomatic choice for vertical orchestration and orchestral balance, as most of the larger interval types are in the bass register ... Perhaps use **0 = Bb** [no.58] in the overall pitch scheme?

SI AITN 58 Prime [C]: 21497 6 538ET / 02374E 5T1986

complement 06 (tritone)

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

Decachord 10-6: 012346789T **Messiaen Mode VII**

SI AITN 58 Prime: 21497 6 538ET

complement 4-25: 0268

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

Octachord 8-25: 0124678T **Messiaen Mode VI** (Subsumes both ATH 6-z17)

SI AITN 58 Prime: 21497 6 538ET

complement 6-30: 013679

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

Hexachord 6-30: 013679 (Subsumes both AIT 4-z29)

SI AITN 58 Prime: 21497 6 538ET

complement 8-9: 01236789 **Messiaen Mode IV**

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

Tetrachord 4-9: 0167

SI AITN 58 Prime: 21497 6 538ET

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

tritone pivot: 06 (complement to 10-6)

SI AITN 58 Prime: 21497 6 538ET

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

SI AITN 58 Inversion [C]: ET835 6 79412/0T9581 72E346

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

Pentachord 5-z37: 03458 Pentachord 5-z37: 03458

SI AITN 58 Inversion: ET835 6 79412

complement 4-25: 0268

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

Tetrachord 4-19: 0148 Tetrachord 4-19: 0148

SI AITN 58 Inversion: ET835 6 79412

complement 6-30: 013679

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

Trichord 3-2: 013 Trichord 3-11: 037 Trichord 3-11: 037 Trichord 3-2: 013

SI AITN 58 Inversion: ET835 6 79412

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

Interval class 5 (P4th/P5th)

SI AITN 58 Inversion: ET835 6 79412

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

tritone pivot: 06 (complement to 10-6)

SI AITN 58 Inversion: ET835 6 79412

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

SI AITN 58

Combined 20-note Scale [C]

Ian Percy

Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Note: Does not contain AIT*

Inverted Decachord 10-5: 012345789T

M2 m2 M3 m3 Tt P4 M2 Tt m3 M2 m3 Tt M2 P4 Tt m3 M3 m2 M2
0 2 3 7 10 4 9 11 5 8 10 1 7 9 2 8 11 3 4 6

Prime Form Decachord 10-5: 012345789T

SI AITN 58: (Combined Scale)

Intervals between notes:

- Major 2nd
- minor 2nd
- Major 3rd
- minor 3rd
- Tritone**
- Perfect 4th
- Major 2nd
- Tritone**
- minor 3rd
- Major 2nd**
- minor 3rd
- Tritone**
- Major 2nd
- Perfect 4th
- Tritone**
- minor 3rd
- Major 3rd
- minor 2nd
- Major 2nd

Combined Scale Spans 5&1/2 octaves

Transposable Bass Tone: →

SI AITN 60

Prime Form [C]

Ian Percy

SI AITN 60 Prime [Interval]: 21437 6 598ET. [Literal]: 0237T5 E41986

Parent: 6-32: 024579 6-32: 024579 (all-combinatorial)

4-14: 0237 4-9: 0167 4-14: 0237

3-2: 013 3-7: 025 3-7: 025 3-2: 013

6-30: 013679 (all-combinatorial)

6-30 subsumes both 4-z15 (AIT)

M2 m2 M3 m3 P5 Tt P4 M6 m6 M7 m7
0 2 3 7 10 5 11 4 1 9 8 6

6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

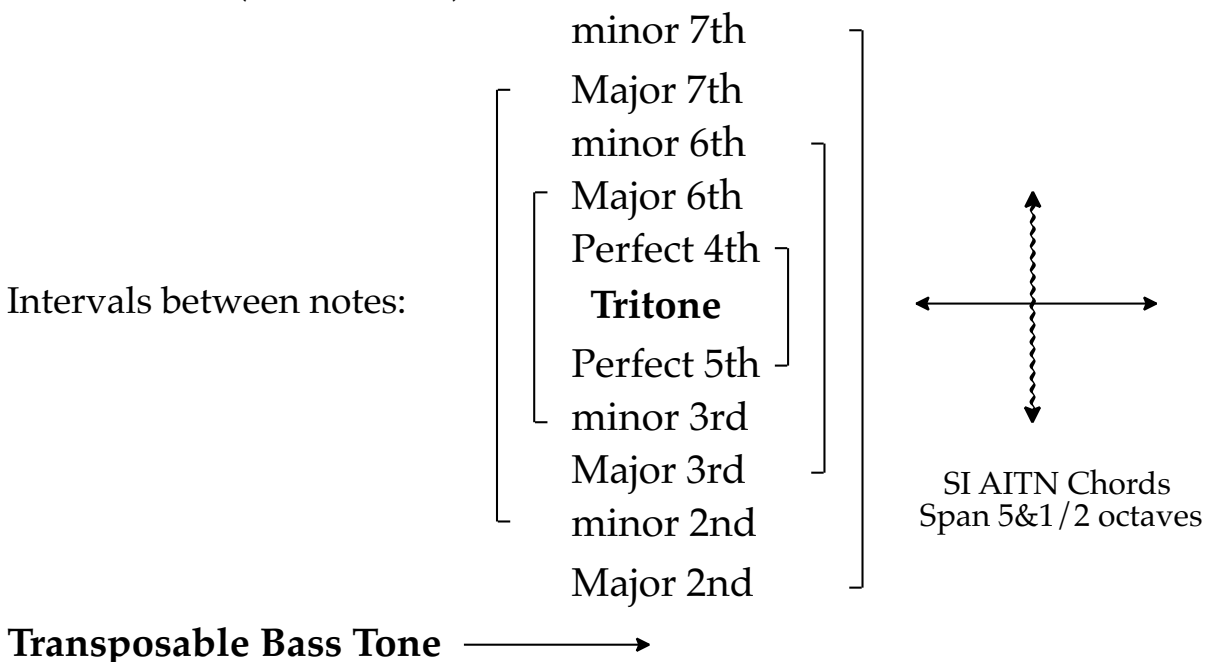
Intervals between notes:

minor 7th
Major 7th
minor 6th
Major 6th
Perfect 4th
Tritone
Perfect 5th
minor 3rd
Major 3rd
minor 2nd
Major 2nd

SI AITN Chords
Span 5½ octaves

Trichords: 0&9 = 3-2. 2&1 = 3-4. 3&4 = 3-11. 7&E = 3-7. T&5 = 3-5. 8&6 = 3-8.
Tetrachords: 0&1 = 4-14. 2&4 = 4-20. 3&E = 4-22. 7&5 = 4-z15. T* = 4-9. 9&6 = 4-12. 8* = 4-25.
Pentachords: 02E&4 = 5-27. 3&5 = 5-30. 7&T = 5-19. 1&6 = 5-z18. 9&8 = 5-28.
Hexachords: 0&E = 6-32. 254&6 = 6-31. 3&T = 6-z17. 7&9 = 6-30. 1&8 = 6-z43.

SI AITN 60: (Prime form)



Note: The inversion of SI AITN 60 would be a more idiomatic choice for vertical orchestration and orchestral balance, as then most of the larger interval types would be in the bass register (space for resonance) ... 3rd mvt. material. Perhaps 0 = C, but up an octave?

SI AITN 60

Inversion [C]

Ian Percy

SI AITN 60 Inversion [Interval]: TE895 6 73412. [Literal]: 0T9527 18E346

Parent: 6-32: 024579 6-32: 024579 (all-combinatorial)

4-14: 0237 4-9: 0167 4-14: 0237

3-2: 013 3-7: 025 3-7: 025 3-2: 013

6-30: 013679 (all-combinatorial)

6-30 subsumes both 4-z15 (AIT)

m7 M7 m6 M6 P4 Tt P5 m3 M3 m2 M2
0 10 9 5 2 7 1 8 11 3 4 6

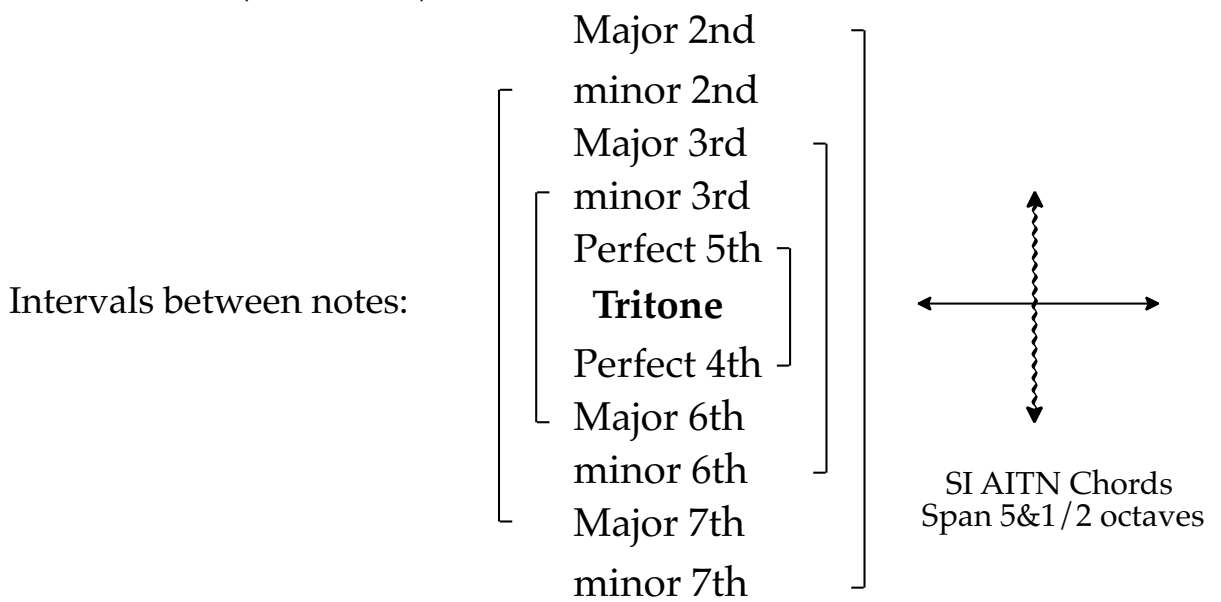
6-z17: 012478/014678 (ATH)

6-z17: 012478/014678 (ATH)

pivot

Trichords: 0&3 = 3-2. T&E = 3-4. 9&8 = 3-11. 5&1 = 3-7. 2&7 = 3-5. 4&6 = 3-8.
Tetrachords: 0&E = 4-14. T&8 = 4-20. 9&1 = 4-22. 5&7 = 4-z15. 2* = 4-9. 3&6 = 4-12. 4* = 4-25.
Pentachords: 0T1&8 = 5-27. 9&7 = 5-30. 5&2 = 5-19. E&6 = 5-z18. 3&4 = 5-28.
Hexachords: 0&1 = 6-32. T7&6 = 6-31. 9&2 = 6-z17. 5&3 = 6-30. E&4 = 6-z43.

SI AITN 60: (Inversion)



Transposable Bass Tone →

Note: This **inversion** of SI AITN 60 is a more idiomatic choice for vertical orchestration and orchestral balance, as most of the larger interval types are in the bass register ... Consider this as 3rd movement material. Perhaps use 0 = C, but up an octave?

SI AITN 60 Prime [C]: 21437 6 598ET / 0237T5 E41986

complement 06 (tritone)

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

Decachord 10-6: 012346789T **Messiaen Mode VII**

SI AITN 60 Prime: 21437 6 598ET

complement 4-25: 0268

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

Octachord 8-25: 0124678T **Messiaen Mode VI** (Subsumes both ATH 6-z17)

SI AITN 60 Prime: 21437 6 598ET

complement 6-30: 013679

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

Hexachord 6-30: 013679 (Subsumes both AIT 4-z15)

SI AITN 60 Prime: 21437 6 598ET

complement 8-9: 01236789 **Messiaen Mode IV**

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

Tetrachord 4-9: 0167

SI AITN 60 Prime: 21437 6 598ET

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

tritone pivot: 06 (complement to 10-6)

SI AITN 60 Prime: 21437 6 598ET

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

SI AITN 60 Inversion [C]: TE895 6 73412/0T9527 18E346

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

Pentachord 5-27: 01358 Pentachord 5-27: 01358

SI AITN 60 Inversion: TE895 6 73412

complement 4-25: 0268

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

Tetrachord 4-22: 0247 Tetrachord 4-22: 0247

SI AITN 60 Inversion: TE895 6 73412

complement 6-30: 013679

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

Trichord 3-2: 013 Trichord 3-7: 025 Trichord 3-7: 025 Trichord 3-2: 013

SI AITN 60 Inversion: TE895 6 73412

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

Interval class 5 (P4th/P5th)

SI AITN 60 Inversion: TE895 6 73412

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

tritone pivot: 06 (complement to 10-6)

SI AITN 60 Inversion: TE895 6 73412

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

SI AITN 60

Combined 20-note Scale [C]

Ian Percy

Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Inverted Nonachord 9-9: 01235678T

6-z17: 012478 (ATH)

4-z15: 0146 (AIT)

m6 pivot

6-z17: 012478 (ATH)

Prime Form Nonachord 9-9: 01235678T

SI AITN 60: (Combined Scale)

Intervals between notes:

- Major 2nd
- minor 2nd
- Major 3rd
- minor 3rd
- Perfect 5th
- Major 3rd
- Major 2nd
- Perfect 4th
- minor 2nd
- minor 6th**
- minor 2nd
- Perfect 4th
- Major 2nd
- Major 3rd
- Perfect 5th
- minor 3rd
- Major 3rd
- minor 2nd
- Major 2nd

Combined Scale
Spans 5 & 1/2 octaves

Transposable Bass Tone: →

SI AITN 3

Prime Form [Eb]

Ian Percy

SI AITN 3 [P3] Prime [Eb] [Interval]: 27491 6 E385T [Literal Eb]: 350412 87T6E9

M2 3
P5 5
M3 0
M6 4
m2 1
Tt 2
M7 8
m3 7
m6 10
P4 6
m7 11
9

Note: If one plays the retrograde (R) row in parallel with the prime (P) row, the resultant vertical interval is always a tritone.

SI AITN 3: (Prime form)

Intervals between notes:

- minor 7th
- Perfect 4th
- minor 6th
- minor 3rd
- Major 7th
- Tritone**
- minor 2nd
- Major 6th
- Major 3rd
- Perfect 5th
- Major 2nd

SI AITN Chords
Span 5&1/2 octaves

Transposable Bass Tone →

SI AITN 3

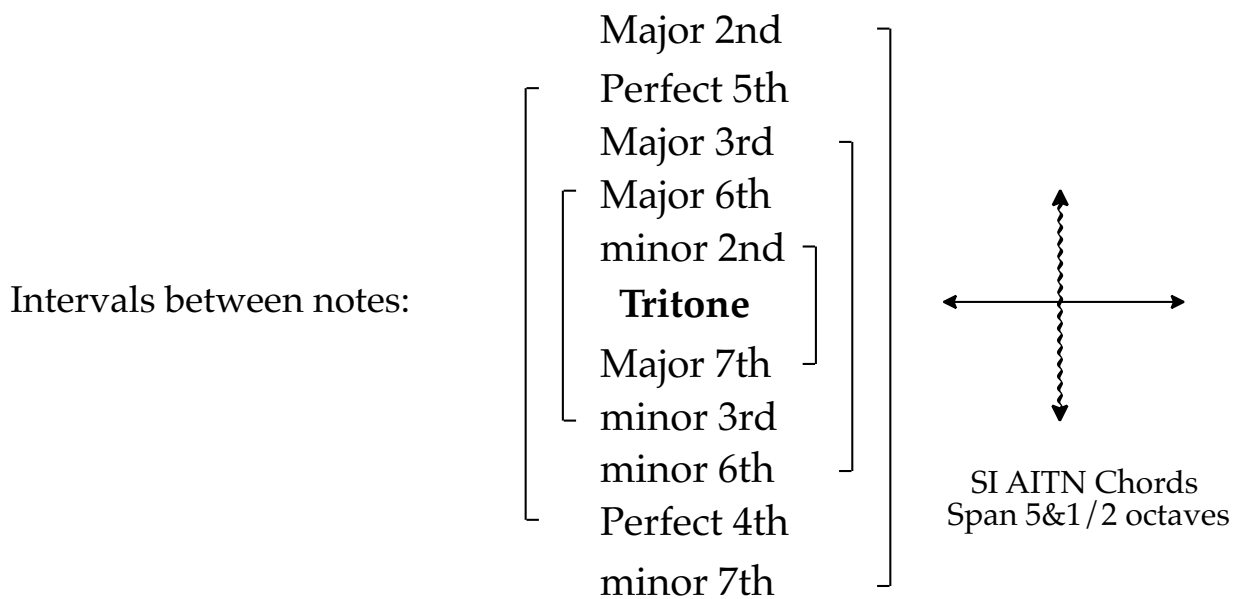
Inversion [Eb]

Ian Percy

SI AITN 3 [I3] Inversion [Eb] [Interval]: T583E 6 19472 [Literal Eb]: 316254 TE8079

Note: If one plays the retrograde inversion (RI) row in parallel with the inverted (I) row, the resultant vertical interval is always a tritone.

SI AITN 3: (Inversion)



Transposable Bass Tone →

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Prime [Eb]: 27491 6 E385T/350412 87T6E9

Musical notation for SI AITN 3 Prime [Eb]. The staff shows a sequence of notes: G3, A3, Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4, C5. Fret numbers are 3, 5, 0, 4, 1, 2, 8, 7, 10, 6, 11, 9.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



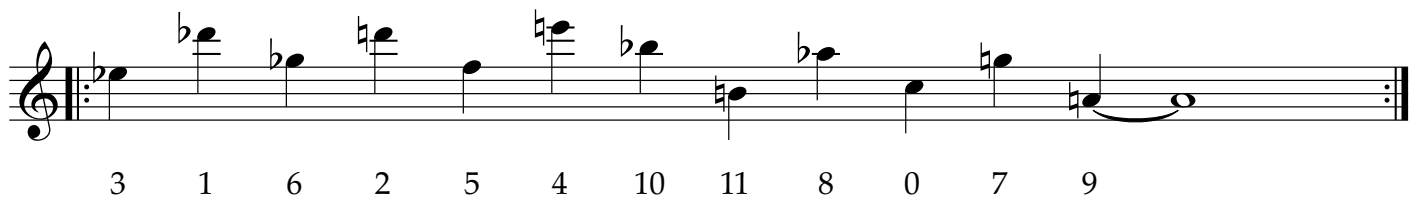
Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



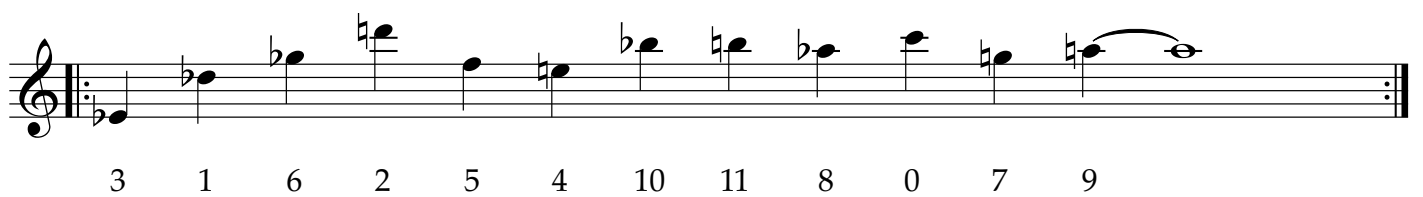
Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079



Musical notation for SI AITN 3 Inversion [Eb]: T583E 6 19472/316254 TE8079. The notation is on a single staff in treble clef with a key signature of one flat (Bb). The notes are: G3 (3), F3 (1), Bb2 (6), Ab2 (2), G3 (5), F3 (4), Bb3 (10), Ab3 (11), G3 (8), F3 (0), Bb3 (7), Ab3 (9). The notes are connected by a slur.

SI AITN 3

Combined 20-note Scale [Eb]

Ian Percy

Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Note: Does not contain ATH*

Inverted Octachord 8-2: 01234568

4-z15: 0146 (AIT)

m6 pivot

M2	P5	m2	m3	M2	P5	m2	m3	m3	m6	m3	m3	m2	P5	M2	m3	m2	P5	M2	
3	5	0	1	4	6	1	2	5	8	4	7	10	11	6	8	11	0	7	9

SI AITN 3: (Combined Scale)

Intervals between notes:

- Major 2nd
- Perfect 5th
- minor 2nd
- minor 3rd
- Major 2nd
- Perfect 5th
- minor 2nd
- minor 3rd
- minor 3rd
- minor 6th**
- minor 3rd
- minor 3rd
- minor 2nd
- Perfect 5th
- Major 2nd
- minor 3rd
- minor 2nd
- Perfect 5th
- Major 2nd

Combined Scale Spans 5&1/2 octaves

Transposable Bass Tone: →

SI AITN 58

Prime Form [B \flat]

Ian Percy

SI AITN 58 [P10] Prime [B \flat] [Interval]: 21497 6 538ET [Literal B \flat]: T01529 38E764

Musical notation for SI AITN 58 Prime [B \flat]. The notation shows a treble and bass clef with notes and chords. Above the notes, the intervals between them are labeled: M2, m2, M3, M6, P5, Tt, P4, m3, m6, M7, m7. Below these labels are the corresponding fret numbers: 10, 0, 1, 5, 2, 9, 3, 8, 11, 7, 6, 4.

Note: If one plays the retrograde (R) row in parallel with the prime (P) row, the resultant vertical interval is always a tritone.

SI AITN 58: (Prime form)

Intervals between notes:

- minor 7th
- Major 7th
- minor 6th
- minor 3rd
- Perfect 4th
- Tritone**
- Perfect 5th
- Major 6th
- Major 3rd
- minor 2nd
- Major 2nd

SI AITN Chords
Span 5 & 1/2 octaves

Transposable Bass Tone →

SI AITN 58

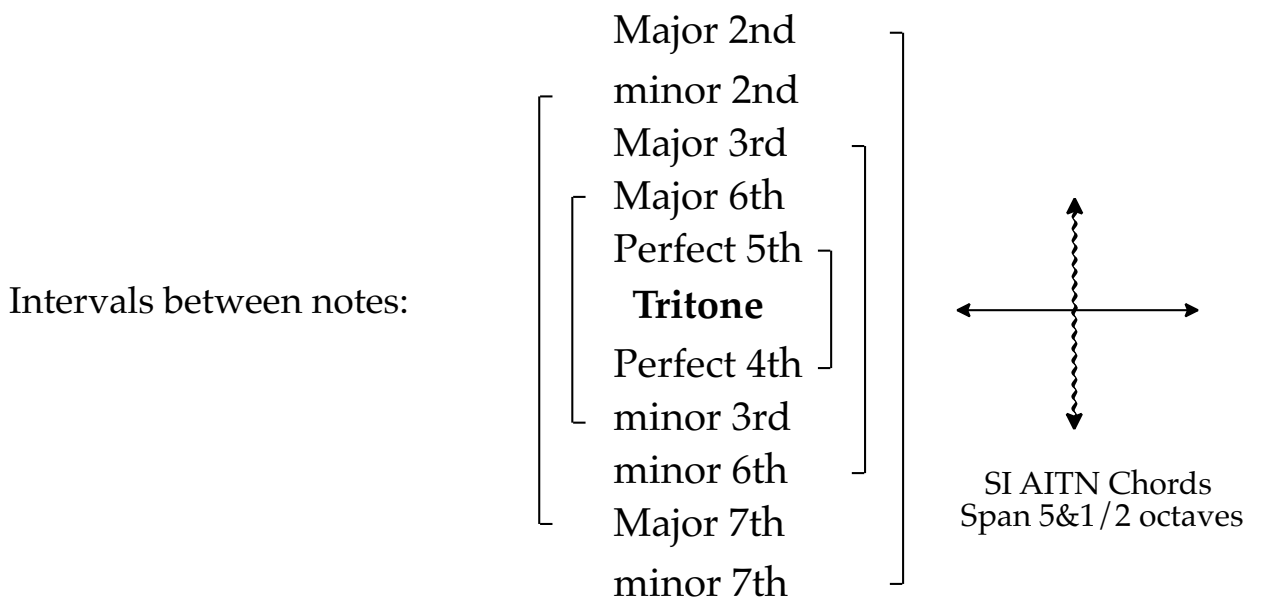
Inversion [B \flat]

Ian Percy

SI AITN 58 [I10] Inversion [B \flat] [Interval]: ET835 6 79412 [Literal B \flat]: T8736E 509124

Note: If one plays the retrograde inversion (RI) row in parallel with the inverted (I) row, the resultant vertical interval is always a tritone.

SI AITN 58: (Inversion)



Transposable Bass Tone →

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Prime [Bb]: 21497 6 538ET / T01529 38E764

Musical notation for SI AITN 58 Prime [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: G2 (10), G2 (0), A2 (1), C3 (5), D3 (2), E3 (9), F3 (3), G3 (8), Ab3 (11), G3 (7), F3 (6), and E3 (4). The notes are connected by a slur from the 11th fret to the 4th fret.

SI AITN 58 Inversion [Bb]: ET835 6 79412/T8736E 509124

Musical notation for SI AITN 58 Inversion [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: Bb (10), Ab (8), G (7), Eb (3), Eb (6), Ab (11), G (5), F (0), Ab (9), G# (1), F (2), and G (4). The notes are connected by stems and beams, with a final G note held as a whole note.

SI AITN 58 Inversion [Bb]: ET835 6 79412/T8736E 509124

Musical notation for SI AITN 58 Inversion [Bb]. The notation is on a single staff in treble clef with a key signature of two flats (Bb). The notes are: Bb (10), Ab (8), G (7), Eb (3), Eb (6), Ab (11), G (5), F (0), Ab (9), G# (1), F (2), and G (4). The notes are connected by stems and beams, with a final G note held as a whole note.

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SI AITN 58

Combined 20-note Scale [B \flat]

Ian Percy

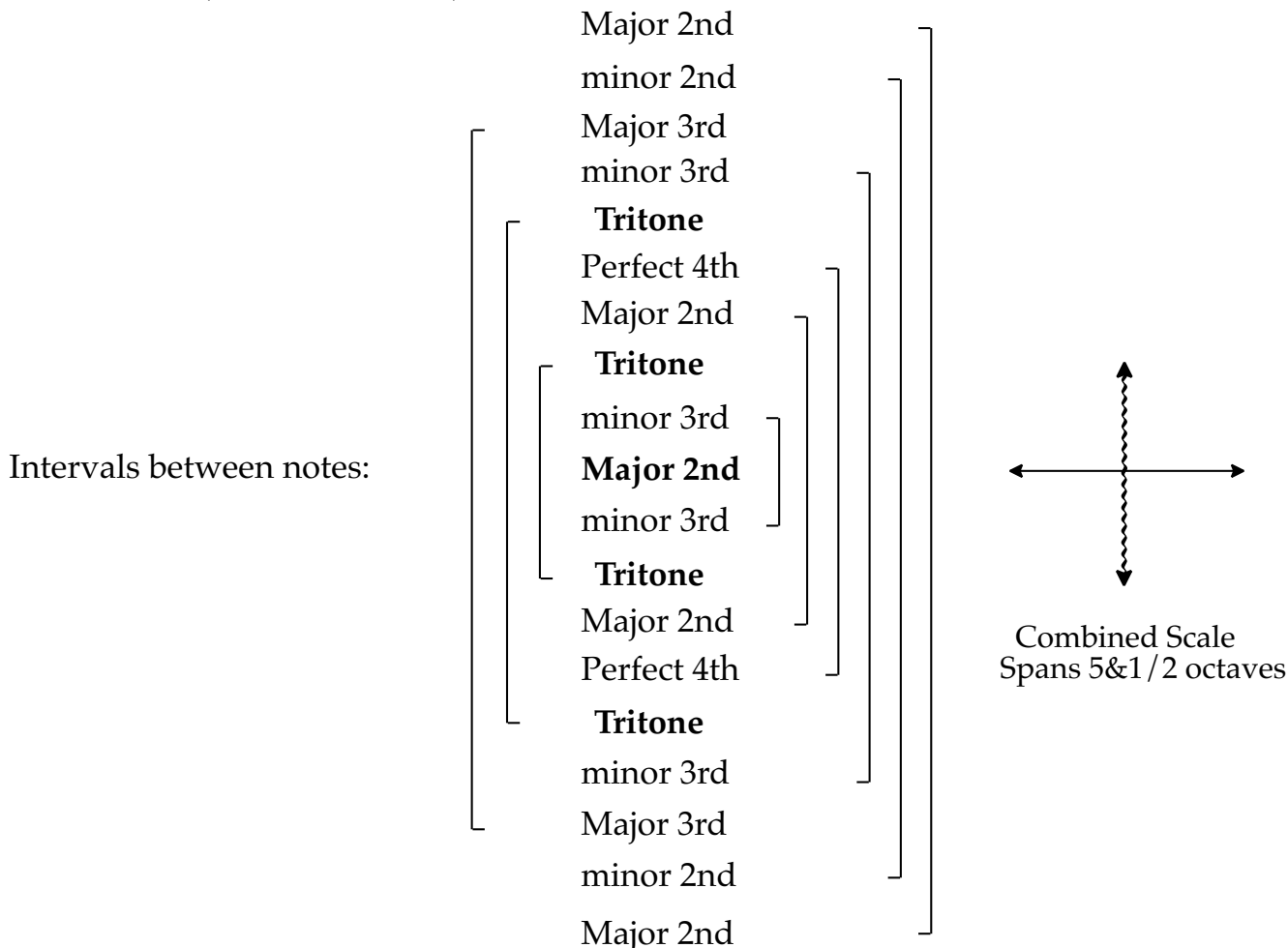
Note: Symmetrically Inverted SI AITN Chords produce Parallel Inverted Combined Scales

Note: Does not contain AIT*

Inverted Decachord 10-5: 012345789T

Prime Form Decachord 10-5: 012345789T

SI AITN 58: (Combined Scale)



Transposable Bass Tone: →