

66

Debussy

Wagner

76

Scriabin

Wagner

Handwritten musical score for measures 66-76. The score is divided into two systems, each with two staves. The first system is labeled "Debussy" and "Wagner". The second system is labeled "Scriabin" and "Wagner". The Scriabin section has sub-labels "b.2" and "b.8". Triangles ( $\Delta$ ) and pi symbols ( $\pi$ ) are placed below the staves to indicate specific notes or chords.

8

Handwritten musical score for measure 8. The score consists of four staves. The first two staves are in treble clef, and the last two are in bass clef. The score includes notes, rests, and dynamic markings. A bracket labeled "[A B]" is under the third staff, and a bracket labeled "[H F]" is under the fourth staff. A triangle symbol ( $\Delta$ ) is placed below the fourth staff.

10

Handwritten musical score for measure 10. The score consists of a single staff in bass clef. The score includes notes and rests.

*Theoretical*

Derivation of delta prime from delta, a permutational interpretation  
(probably not Wagner's!)

Delta in original arrangement	Rotate delta	$IT_7$	Rotate (retrograde or (03)(12) permutation) = Delta'
8	3	4	11
3	11	8	2
11	5	2	8
5	8	11	4

# A Permutational View of the Tristan Chord

Partition	Permutation (cyclic notation)	Pc Set (Delta) [bass up]	Bip
(1)(1)(1)(1) Even	(0)(1)(2)(3)	✓ 5 11 3 8	456
.....			
(4) Odd	(0123)	✓ 11 3 8 5	345
	(0321)	✓ 8 5 11 3	346
	(0213)	✓ 3 8 11 5	356
	(0132)	✓ 11 8 5 3	233
	(0312)	✓ 8 3 5 11	256
	(0231)	✓ 3 5 8 11	233
.....			
(2)(1)(1) Odd	(01)	✓ 11 5 3 8	256
	(12)	✓ 5 3 11 8	234
	(23)	✓ 5 11 8 3	356
	(03)	✓ 8 11 3 5	234
	(13)	✓ 5 8 3 11	345
	(02)	✓ 3 11 5 8	346
.....			
(3)(1) Even	(123)	✓ 5 3 8 11	235
	(023)	✓ 3 11 8 5	334
	(031)	✓ 8 5 3 11	234
	(012)	✓ 11 3 5 8	234
	(132)	✓ 5 8 11 3	334
	(032)	✓ 8 11 5 3	236
	(013)	✓ 11 8 3 5	235
	(021)	✓ 3 5 11 8	236
.....			
(2)(2) (Even)	(01)(23)	✓ 11 5 8 3	356
	(02)(13)	✓ 3 8 5 11	356
	(03)(12)	✓ 8 3 11 5	456

## 4-27 as delta

Permutations	Linear pc successions	Bips
11 3 5 8	4-2-3	234
11 5 8 3	6-3-5	356
11 8 3 5	3-5-2	235
11 3 8 5	4-5-3	345
11 8 5 3	3-3-2	233
11 5 3 8	6-2-5	256
3 5 8 11	2-3-3	233
3 8 11 5	5-3-6	356
3 11 5 8	4-6-3	346
3 5 11 8	2-6-3	236
3 11 8 5	4-3-3	334
3 8 5 11	5-3-6	356
5 11 3 8	6-4-5	456
5 3 8 11	2-5-3	235
5 11 8 3	6-3-5	356
5 8 3 11	3-5-4	345
5 3 11 8	2-4-3	234
5 8 11 3	3-3-4	334
8 11 3 5	3-4-2	234
8 3 5 11	5-2-6	256
8 5 11 3	3-6-4	346
8 11 5 3	3-6-2	236
8 5 3 11	3-2-4	234
8 3 11 5	5-4-6	456

4-27 as delta prime ( $\Sigma T_7$ )

Permutation	Linear pc succession	Bip
4 8 11 2	4-3-3	334
4 11 2 8	5-3-6	356
4 2 8 11	2-6-3	236
4 8 2 11	4-6-3	346
4 2 11 8	2-3-3	233
4 11 8 2	5-3-6	356
8 11 2 4	3-3-2	233
8 2 4 11	6-2-5	256
8 4 11 2	4-5-3	345
8 11 4 2	3-5-2	235
8 4 2 11	4-2-3	234
8 2 11 4	6-3-5	356
11 4 8 2	5-4-6	456
11 8 2 4	3-6-2	236
11 4 2 8	5-2-6	256
11 2 8 4	3-6-4	346
11 8 4 2	3-4-2	234
11 2 4 8	3-2-4	234
2 4 8 11	2-4-3	234
2 8 11 4	6-3-5	356
2 11 4 8	3-5-4	345
2 4 11 8	2-5-3	235
2 11 8 4	3-3-4	334
2 8 4 11	6-4-5	456