

Sets in Berg, Op. 2/4

4-1

4-3

* 4-7

4-8

* 4-9

4-10

* 4-z15

* 4-16

4-17

* 4-18

* 4-19

4-20

4-21

4-23

* 4-24

* 4-25

4-z29

5-20

5-21

5-29

5-32

5-33

6-20

6-27

6-32

6-z44

BERG

Example Z: Relations

	b	c	d
a	<>	<>	<>
b		V5	V1
c			V1

<> means contains or is contained in

Berg, Op. 2/4

Unary Transformations for first two chords in sequence, bar 20 ff.
(only to other sets in the song)

GENERATOR SET: 4-Z15: {1,3,6,7} 111111

Value of y is 1

4-8: {1,2,6,7} RP 200121 b.20

Value of y is 2

4-16: {1,3,7,8} R2 110121 b.8,10

Value of y is 3

4-9: {0,1,6,7} R0 200022 b.10-12

4-10: {1,3,4,6} RP 122010 b.12-14

Value of y is 4

4-16: {6,7,11,1} R2 110121 b.13

Value of y is 6

4-Z29: {6,7,9,1} ic identical b.20

GENERATOR SET: 4-Z29: {7,8,10,2} 111111

Value of y is 2

4-16: {7,8,0,2} R2 110121 b.3-4

4-19: {6,7,10,2} RP 101310 b.6

Value of y is 3

4-10: {5,7,8,10} RP 122010 b.15-16

Value of y is 4

4-16: {8,10,2,3} R2 110121 b. 1, voice & piano

also 4-7 in piano descent b.20-22

This one!

Berg, Op. 2, No. 4

GENERATOR SET: 4-16: {0,1,5,7}

110121

Only those tetrachords that occur in the piece are shown

Value of y is 1

4-8: {0,1,5,6}	R2	200121
4-9: {0,1,6,7}	RP	200022
4-18: {0,1,4,7}	RP	102111
→ 4-20: {0,1,5,8}	RP	101220
4-23: {0,2,5,7}	R0	021030
4-25: {5,7,11,1}	RP	020202

Value of y is 2

4-Z15: {1,2,5,7}	R2	111111
→ 4-16: {5,7,11,0}	ic identical	110121
4-19: {5,9,0,1}	RP	101310
4-Z29: {0,1,3,7}	R2	111111

Value of y is 3

4-7: {0,1,4,5}	R0	201210
4-8: {7,8,0,1}	R2	200121
4-21: {1,3,5,7}	RP	030201
4-23: {5,7,10,0}	R0	021030
— 4-24: {5,7,9,1}	RP	020301

Value of y is 4

4-Z15: {7,9,0,1}	R2	111111
→ 4-Z29: {1,5,7,8}	R2	111111

Berg, Op. 2/4

Unary Transformations of 4-16: {0,1,5,7} 110121
[Only tetrachord classes in this work are shown]

Value of y is 1

4-8: {0,1,5,6}	R2	200121
4-9: {0,1,6,7}	RP	200022
4-18: {0,1,4,7}	RP	102111
4-20: {0,1,5,8}	RP	101220
4-23: {0,2,5,7}	R0	021030
4-25: {5,7,11,1}	RP	020202

Value of y is 2

4-Z15: {1,2,5,7}	R2	111111	
4-16: {5,7,11,0}	ic	identical	110121
4-19: {5,9,0,1}	RP	101310	
4-Z29: {0,1,3,7}	R2	111111	

Value of y is 3

4-7: {0,1,4,5}	R0	201210
4-8: {7,8,0,1}	R2	200121
4-21: {1,3,5,7}	RP	030201
4-23: {5,7,10,0}	R0	021030
4-24: {5,7,9,1}	RP	020301

Value of y is 4

4-Z15: {7,9,0,1}	R2	111111
4-Z29: {1,5,7,8}	R2	111111

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Inventory of Pitch-Class Sets (Tetrachords)

Set Name	Normal Order	Location
4-10	[1,3,4,6]	12-14 piano
4-10	[3,5,6,8]	6 voice piano
4-10	[5,7,8,10]	15-16 voice piano
4-16	[0,1,5,7]	1 piano
4-16	[0,2,6,7]	3 voice piano
4-16	[0,2,6,7]	7-8 voice
4-16	[1,2,6,8]	22-23 piano
4-16	[1,2,6,8]	3-4 voice
4-16	[1,3,7,8]	10 voice
4-16	[1,3,7,8]	8 voice piano
4-16	[11,1,5,6]	21-22 piano
4-16	[11,1,5,6]	4 piano
4-16	[11,1,5,6]	4-5 voice piano
4-16	[2,3,7,9]	7 voice piano
4-16	[2,4,8,9]	11 voice
4-16	[2,4,8,9]	3-4 voice
4-16	[3,5,9,10]	8-9 voice piano
4-16	[4,5,9,11]	22-23 piano
4-16	[4,6,10,0]	15 voice piano
4-16	[5,6,10,0]	23-24 voice
4-16	[5,7,11,0]	1 piano
4-16	[5,7,11,0]	5 voice
4-16	[6,7,11,1]	13 voice piano
4-16	[7,8,0,2]	3-4 piano

4-16	[8,10,0,3]	1 voice piano
4-16	[8,9,1,3]	8 voice piano
4-16	[9,11,3,4]	1-4 piano
4-17	[0,3,4,7]	15 voice
4-17	[1,4,5,8]	12 voice
4-17	[4,7,8,11]	12 piano
4-17	[4,7,8,11]	12-13 voice
4-17	[4,7,8,11]	13 voice
4-18	[1,4,7,8]	11-12 voice
4-18	[2,3,6,9]	22 piano
4-18	[3,4,7,10]	8 voice piano
4-18	[4,5,8,11]	14 voice
4-18	[8,11,2,3]	14 voice
4-18	[8,9,0,3]	11 voice
4-18	[8,9,0,3]	3 voice
4-18	[9,0,3,4]	3 voice
4-19	[11,0,3,7]	15 voice
4-19	[11,0,3,7]	5-6 voice
4-19	[4,5,8,0]	11 voice
4-19	[5,6,10,2]	23 voice
4-19	[6,7,10,2]	6 piano
4-19	[8,9,0,4]	11 voice
4-20	[0,1,4,5,8]	1 piano
4-20	[2,3,7,10]	6 piano
4-20	[4,5,9,0]	10 piano
4-20	[5,6,10,1]	24 voice

4-23	[6,8,11,1]	21 piano
4-24	[1,3,5,9]	20-24 voice
4-24	[11,1,3,7]	10 voice
4-24	[2,4,6,10]	2-4 voice
4-24	[2,6,8,10]	6 piano
4-24	[3,5,7,11]	6 piano
4-24	[4,8,10,0]	12 voice
4-24	[5,7,11,1]	12 voice piano
4-24	[7,9,11,3]	21-22 voice
4-25	[3,5,9,11]	6 piano
4-25	[4,6,10,0]	17 piano
4-25	[4,6,10,0]	2 voice
4-3	[10,11,1,2]	13-14 voice
4-3	[10,11,1,2]	14 voice
4-3	[11,0,2,3]	21-22 voice
4-3	[8,9,11,0]	13 piano
4-7	[3,4,7,8]	12 voice
4-7	[5,6,9,10]	10 piano
4-7	[9,10,1,2]	14 voice
4-8	[0,1,5,6]	23-24 voice piano
4-8	[1,2,6,7]	20 piano
4-8	[3,4,8,9]	3-4 voice
4-8	[6,7,11,0]	13 piano
4-8	[6,7,11,0]	5-6 piano
4-8	[8,9,2,3]	14 voice
4-9	[0,1,6,7]	10-12 piano

4-9	[3,4,9,10]	16-20 voice piano
4-9	[4,5,10,11]	15 voice piano
4-9	[4,5,10,11]	3-4 piano
4-9	[7,8,1,2]	20 piano
4-z15	[0,2,5,6]	23 voice piano
4-z15	[1,3,6,7]	20 piano
4-z15	[11,1,4,5]	21 piano
4-z15	[7,8,11,1]	13 voice
4-z15	[9,11,2,3]	22 [piano]
4-z29	[1,5,7,8]	1 piano
4-z29	[3,4,6,10]	21 piano
4-z29	[5,6,8,0]	21 piano
4-z29	[6,7,9,1]	20 voice piano
4-z29	[7,8,10,2]	20 piano
5-21	[10,11,1,2,5,6]	24 piano
5-21	[4,5,8,9,0]	10 piano
5-21	[6,7,10,11,2]	9 piano
5-32	[6,9,11,2,3]	22 piano
6-32	[6,8,10,11,1,3]	20-22 piano
6-z44	[0,1,4,5,6,9]	10 piano
6-z44	[5,6,7,10,11,2]	9 voice piano
8-19	(0,1,4,8)	6 piano

only 4 values of y are relevant

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Unary Transformations of 4-16: {0,1,5,7} 110121
[Only tetrachord classes in this work are shown]

bar!

Value of y is 1

4-8: {0,1,5,6}	R2	200121	23-24 voices & piano
4-9: {0,1,6,7}	RP	200022	10-12 piano
4-18: {0,1,4,7}	RP	102111	whats?
4-20: {0,1,5,8}	RP	101220	bar 1, piano
4-23: {0,2,5,7}	R0	021030	3-5 piano
4-25: {5,7,11,1}	RP	020202	12 voices piano

Value of y is 2

4-Z15: {1,2,5,7}	R2	111111	whats?
4-16: {5,7,11,0}	ic	identical	110121 5 voices
4-19: {5,9,0,1}	RP	101310	whats?
4-Z29: {0,1,3,7}	R2	111111	whats?

Value of y is 3

4-7: {0,1,4,5}	R0	201210	whats?
4-8: {7,8,0,1}	R2	200121	?
4-21: {1,3,5,7}	RP	030201	?
4-23: {5,7,10,0}	R0	021030	?
4-24: {5,7,9,1}	RP	020301	?

Value of y is 4

4-Z15: {7,9,0,1}	R2	111111	?
4-Z29: {1,5,7,8}	R2	111111	1 piano

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Unary Transformations for first two chords in sequence, bar 20 ff.
(only to other sets in the song)

GENERATOR SET: 4-Z15: {1,3,6,7} 111111

Value of y is 1

4-8: {1,2,6,7} RP 200121 b.20

Value of y is 2

4-16: {1,3,7,8} R2 110121 b.8,10

Value of y is 3

4-9: {0,1,6,7} R0 200022 b.10-12

4-10: {1,3,4,6} RP 122010 b.12-14

Value of y is 4

4-16: {6,7,11,1} R2 110121 b.13

Value of y is 6

4-Z29: {6,7,9,1} ic identical b.20

GENERATOR SET: 4-Z29: {7,8,10,2} 111111

Value of y is 2

4-16: {7,8,0,2} R2 110121 b.3-4

4-19: {6,7,10,2} RP 101310 b.6

Value of y is 3

4-10: {5,7,8,10} RP 122010 b.15-16

Value of y is 4

4-16: {8,10,2,3} R2 110121 b. 1, voice & piano

this is the most significant relation

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Example A: Relations

	b	c	d	e	f	g	h	i
a	V1	T1	IT0	[v]	T11	[v]	IT5	T7
b		[v]	[v]		[v]	[v]	[v]	[v]
c			IT1	[v]	T10	[v]	IT6	T6
d				[v]	IT11	[v]	T5	IT7
e					[v]	[v]	V1	V1
f						[v]	IT4	T8
g							IT0	V1
h								IT0

[v] means simplex transform possible, but not realized

Empty entry means no simplex transform or T or IT possible

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Example B: Relations

	b	c	d	e	f	g
a	V4	[v]	[v]		[v]	[v]
b		[v]	[v]		[v]	[v]
c			IT10		[v]	[v]
d					[v]	[v]
e						
f						V4*

*V given precedence over T or IT!

Row and column for e (4-1) are completely empty, since 4-1 is in none of the defined relations with any other the other sets. However, it is V-related to 4-3, 4-10, and 4-z29, sets whose significance becomes evident as the song develops.

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Example C: Relations

	b	c	d	e	f	g
a	T0	[v]	[v]	[v]	[v]	V2
b		[v]	[v]	[v]	[v]	V2
c			T0	*V4	[v]	V1
d				*V4	[v]	V1
e					[v]	V5
f						V4

Example D: Relations

	b	c	d	e	f	g
a	T10	IT7	[v]	T2	[v]	[v]
b		IT5	[v]	T4	[v]	[v]
		c	[v]	T6	[v]	[v]
			d	[v]	[v]	[v]
				e	[v]	[v]
					f	V3

REG

Example E: Relations

	b	c
a	[v]	[v]
	b	v3

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Example F: Relations

	b	c	d	e	f	g	h	i
a	V1	[v]	[v]	[v]	[v]	[]	[]	[]
b	V3	IT5	[v]			<>		
c	V3					<>		
d			V2				<>	
e				V2				
f								
g						IT5	V3	
h							V3	