

Schoenberg, Sechs Stücke für Männerchor, Op.35

No. 1, "Hemmung", completed Feb. 19, 1930

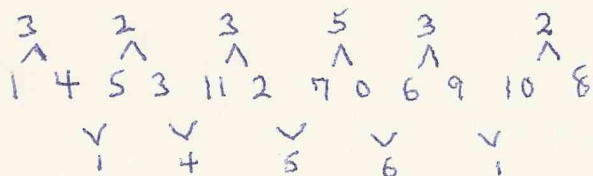
Row Matrix

*The hexachord is given first in m. 23, in retrograde.  
This determines the ordering of this row, as shown here.*

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

The hexachord, 6-2, is inversionally combinatorial for one value of t.

$P_0 I_{10}$   
 $P_{10} I_7$   
 $P_9 I_6$



} dyads & intervals  
 very important - see sep. page

Heurung

Cadenres end ies 2, 3, 5 and 4

m. 3

$$ic5 \begin{bmatrix} 0 \\ 7 \end{bmatrix}$$

$$ic5 \begin{bmatrix} 8 \\ 3 \end{bmatrix}$$

4-20

m. 10

$$ic1 \begin{bmatrix} 8 \\ 3 \end{bmatrix}$$

$$ic5 \begin{bmatrix} 7 \\ 0 \end{bmatrix}$$

—

m. 10

$$ic4 \begin{bmatrix} 3 \\ 7 \end{bmatrix}$$

$$ic4 \begin{bmatrix} 0 \\ 8 \end{bmatrix}$$

—

m. 19

$$ic2 \begin{bmatrix} 1 \\ 11 \end{bmatrix}$$

$$ic2 \begin{bmatrix} 8 \\ 6 \end{bmatrix}$$

4-23

m. 22

$$ic4 \begin{bmatrix} 6 \\ 2 \end{bmatrix}$$

$$ic2 \begin{bmatrix} 5 \\ 3 \end{bmatrix}$$

m. 30

$$ic1 \begin{bmatrix} 9 \\ 7 \end{bmatrix}$$

$$ic3 \begin{bmatrix} 2 \\ 11 \end{bmatrix}$$

4-22

Schönberg, Op. 35/1, "Hamnung" (Feb. 19, 1930)

(1)

|                |                    |                  |                  |                |    |                               |                 |   |   |
|----------------|--------------------|------------------|------------------|----------------|----|-------------------------------|-----------------|---|---|
| T <sub>1</sub> | 2 <sub>5</sub> 2   | 2                | 0 <sub>6</sub>   | 0              | 2  | 2                             | 2               | 0 | 0 |
| T <sub>2</sub> | 11 <sub>4</sub> 11 | 11               | 7 <sub>7</sub>   | 7              | 11 | 11                            | 11              | 7 | 7 |
| B <sub>1</sub> |                    | 6 <sub>8</sub> 6 | 9 <sub>9</sub>   | 9              | 9  | 10 <sub>10</sub>              | 8 <sub>11</sub> | 8 | 8 |
| B <sub>2</sub> |                    |                  | 1 <sub>0</sub> 1 | 4 <sub>4</sub> | 4  | 5 <sub>2</sub> 3 <sub>3</sub> | 3               | 3 | 3 |

4-14 desc 6, 11, 11, 11  
 tetrad 2  
 4-2 tetrad 3  
 4-2 tetrad 4  
 4-11      4-26  
 5-27  
 4-18  
 [6-219: 8, 8, 10, 0, 2, 33]  
 4-20: 7, 8, 0, 3

HB.  
The Signature!

(P<sub>1</sub>)

|                |    |    |    |   |   |    |    |    |    |   |   |   |
|----------------|----|----|----|---|---|----|----|----|----|---|---|---|
| T <sub>1</sub> | 6  | 6  | 6  | 9 | 9 | 10 | 8  | 8  | 8  |   |   |   |
| T <sub>2</sub> |    |    |    | 1 | 1 | 4  | 4  | 4  | 5  | 3 | 3 | 3 |
| B <sub>1</sub> | 11 | 11 | 11 | 7 | 7 |    | 11 | 11 | 11 | 7 |   |   |
| B <sub>2</sub> | 2  | 2  | 2  | 0 | 0 |    | 2  | 2  | 2  | 0 |   |   |

4-14      4-26      4-18  
 4-20: 7, 8, 0, 3

(P<sub>2</sub>)

Red subscripts are order numbers.

The row is set out in tetrachords. Order preserved within tetrachords, but not among tetrachords w/r total ordering of the row.

2nd success in row 1-15  
 4-26 | 4-22 | 4-26 | 4-18 | 4-22

2

m. 11

|       |    |    |    |    |    |   |   |    |   |    |    |   |   |
|-------|----|----|----|----|----|---|---|----|---|----|----|---|---|
| $T_1$ | 11 |    | 1  | 4  | 4  | 4 | 5 | 3  | 3 | 3  | 3  |   | 3 |
| $T_2$ | 11 | 2  | 2  | 11 | 0  | 7 | 0 | 11 |   | 2  | 11 | 7 | 7 |
| $B_1$ | 2  | 11 | 11 | 2  | 11 | 0 | 7 | 2  |   | 11 | 2  | 0 | 0 |
| $B_2$ |    |    | 6  | 6  | 9  | 9 | 9 | 10 | 8 |    | 8  | 8 | 8 |

⊕

$P_1$

m. 16

|       |    |   |    |   |    |    |    |   |    |   |    |   |    |   |    |   |    |   |    |   |   |   |   |   |
|-------|----|---|----|---|----|----|----|---|----|---|----|---|----|---|----|---|----|---|----|---|---|---|---|---|
| $T_1$ |    |   | 3  | 3 | 3  | 5  | 5  | 5 | 4  | 4 | 1  | 1 | 3  | 3 | 5  | 5 | 5  | 4 | 4  | 1 | 1 |   |   |   |
| $T_2$ |    | 1 | 8  | 8 | 10 | 10 | 10 | 9 | 9  | 6 | 6  |   | 0  | 0 | 7  | 7 | 7  | 7 | 2  | 2 | 1 | 1 | 1 | 1 |
| $B_1$ | 2  |   | 2  | 0 | 2  | 0  | 2  | 0 | 2  | 0 | 2  |   | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 9 |   |   |   |
| $B_2$ | 11 | 7 | 11 | 7 | 11 | 7  | 11 | 7 | 11 | 7 | 11 |   | 8  | 6 | 8  | 6 | 8  | 6 | 8  | 6 | 6 |   |   |   |

$R(P_1)$

ordered as in  $P_1$

$R(P_1)$

app.

⊕ For first three statements of  $P_1$  the order of the tetrachords is 2-3-1.

(2)

|       |    |   |    |    |    |   |    |    |    |    |    |    |    |   |    |   |    |   |   |   |   |   |
|-------|----|---|----|----|----|---|----|----|----|----|----|----|----|---|----|---|----|---|---|---|---|---|
| $T_1$ | 1  | 8 | 8  | 10 | 10 | 8 | 10 | 10 | 8  | 10 | 8  | 10 | 8  | 8 | 10 | 8 | 10 | 9 | 9 | 6 | 6 | 6 |
| $T_2$ | 11 | 0 | 0  | 7  | 0  | 7 | 7  | 2  | 11 | 2  | 11 | 2  | 11 | 2 |    |   |    |   |   |   | 2 | 2 |
| $R_1$ | 9  | 5 | 10 | 1  |    | 1 | 1  |    | 5  |    | 1  |    | 1  | 5 |    | 1 | 1  |   |   | 5 | 5 |   |
| $R_2$ | 6  | 3 | 4  | 4  |    | 4 | 4  |    | 3  |    | 4  |    | 4  | 3 |    | 4 | 4  |   |   | 3 | 3 |   |

$\downarrow$  m.19  
 $\uparrow$  422  
~~(P1)~~ P1, Each tetrad and retrograde

pc 6 complete  
agg.

Agg. m.23 Double canon 6-2

|       |        |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |
|-------|--------|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|
| $T_1$ | Coms 1 | 2 | 2 | 2 | 11 | 11 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 8 | 8 | 8 | 10 | 10 | 9  | 9 | 9 | 9 | 6 | 6 | 6 | 6 | 0 |   |   |
| $T_2$ | Dist 2 | 8 | 8 | 8 | 10 | 10 | 9 | 9 | 9 | 9 | 6 | 6 | 6 | 6 | 0 | 0 | 7 | 2 | 2 | 2  | 11 | 11 | 3 | 3 | 3 | 3 | 5 | 5 | 5 |   |   |   |
| $R_1$ | Coms 2 | 2 | 2 | 2 | 11 | 11 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 8 | 8 | 8  | 10 | 10 | 9 | 9 | 9 | 9 | 6 |   |   |   |   |   |
| $B_2$ | Dist 1 | 8 | 8 | 8 | 10 | 10 | 9 | 9 | 9 | 9 | 6 | 6 | 6 | 6 | 0 | 7 | 2 | 2 | 2 | 11 | 11 | 3  | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 1 |

$R(P_1)$  6-2  
 First statement of the hexachord - hence definitive ordering of the row  
 6-2

m.25

T<sub>1</sub> 0 7

T<sub>2</sub> 5 4 4 1

B<sub>1</sub> 6 6 6 0 0 7

B<sub>2</sub>

|   |   |
|---|---|
| 4 | 5 |
| 1 | 3 |

|    |
|----|
| 2  |
| 11 |

|   |    |
|---|----|
| 0 | 6  |
| 8 | 10 |

6-2  
adjacent not adjacent

7 0 6 9 10 8

1 4 5 3

7 0 6 9 10 10 8

1 4 5

P<sub>1</sub>

P<sub>1</sub>

6-2

5-9  
(first pentachord)

|                |   |   |   |    |    |   |
|----------------|---|---|---|----|----|---|
| T <sub>1</sub> | 9 | 9 | 8 | 10 | 10 | 9 |
| T <sub>2</sub> | 7 | 7 | 0 | 6  | 6  | 7 |

|                |    |   |   |   |   |   |   |   |   |   |
|----------------|----|---|---|---|---|---|---|---|---|---|
| B <sub>1</sub> | 11 | 2 | 4 | 4 | 3 | 2 | 2 | 4 | 3 | 2 |
|----------------|----|---|---|---|---|---|---|---|---|---|

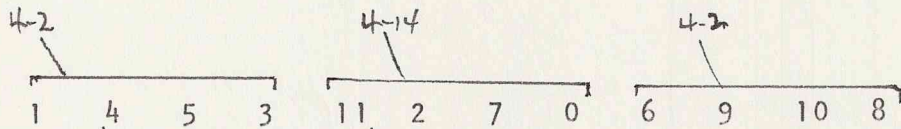
|                |   |   |   |    |    |   |   |   |    |    |   |   |    |
|----------------|---|---|---|----|----|---|---|---|----|----|---|---|----|
| B <sub>2</sub> | 5 | 3 | 3 | 11 | 11 | 1 | 1 | 5 | 11 | 11 | 1 | 5 | 11 |
|----------------|---|---|---|----|----|---|---|---|----|----|---|---|----|

Here the total ordering of this row is considerably disrupted

4-21!  
(a subset of 6-2, but not a linear subset of the row)

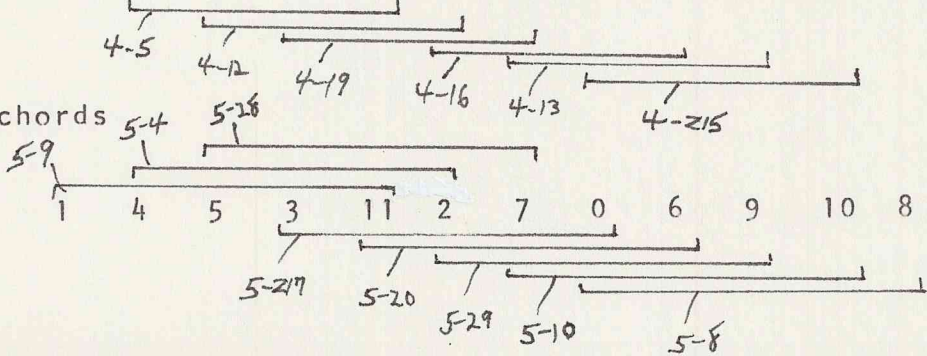
Schoenberg, Hemmung  
Subset Structure of the Row

Tetrachords



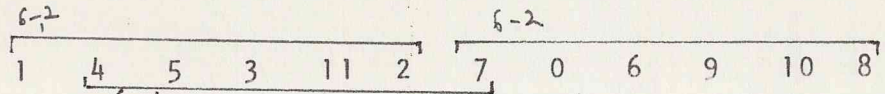
4-2 repeated

Pentachords



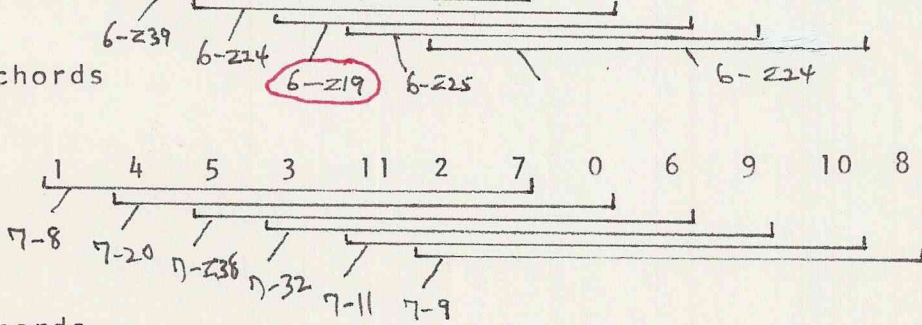
NO repetitions

Hexachords



6-224 2x

Heptachords



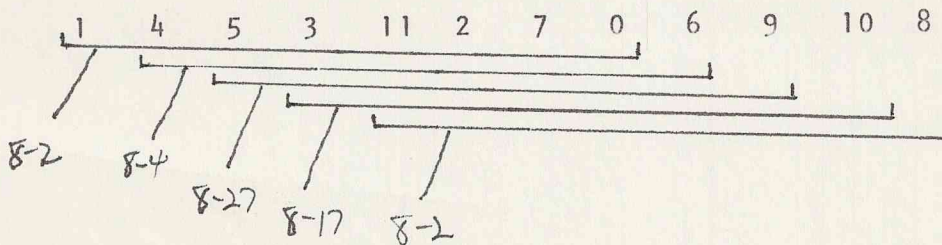
Natural complements of

5-note subsets:

7-9, 9-8

(7-20 is not the natural complement of 5-20.)

Octachords



Natural complements of

4-note subsets:

8-2 (2x)

Next: Basis of reorderings

Intervals ~~xxxx~~

Register?

Rhythm

Setting of the text



m.1-6, "Wenns so kommt, wie man es gewohnt ist, ists in Ordnung:  
das kann man verstehen."

Circular canon by trichord:

|           |       |       |         |       |
|-----------|-------|-------|---------|-------|
| <u>P6</u> | 6 9 7 | 1 0 2 | 5 11 10 | 3 4 8 |
|           | T1    | T2    | B2      | B1    |

m.7-11, "Kommt es aber anders, ist es ein Wunder."

Circular canon:

|            |       |         |       |           |
|------------|-------|---------|-------|-----------|
| <u>RI9</u> | 9 1 2 | (7 6 0) | 3 5 4 | (10 8 11) |
|            | T1    | T2      | B2    | B1        |

m.12-14, "Jedoch, bedenke nur: Dass es immer gleich kommt,"

|            |             |         |         |         |
|------------|-------------|---------|---------|---------|
| <u>RI4</u> | T1: 4 8 9   | 2 1 7   | 10 0 11 | 5 3 6   |
|            | T2: 3 11 10 | 5 6 0   | 5 3 6   | 10 0 11 |
|            | B1: 2 1 7   | 3 11 10 | 2 4 1   | 9 7 8   |
|            | B2: 5 6 0   | 4 8 9   | 9 7 8   | 2 4 1   |
|            | 12          | 12      | 12      | 12      |

m.15-17, "das ist doch das Wunder, das dir unbegreiflich scheinen sollte:"

|           |       |         |             |
|-----------|-------|---------|-------------|
|           | A     |         | B           |
| <u>R8</u> | 8 4 3 | 10 11 5 | 2 0 1 7 9 6 |

accompaniment by hexachord:

|            |            |
|------------|------------|
| A: T2- 3,4 | B: T2- 6,9 |
| B1- 5,10   | B1- 0,1    |
| B2- 8,11   | B2- 2,7    |

m.18-23, "Dass es ein Gesetz gibt, dem die Dinge so gehorchen,  
wie du deinem Herrn,"

|           |       |         |       |       |
|-----------|-------|---------|-------|-------|
| <u>I6</u> | 6 3 5 | 11 0 10 | 7 1 2 | 9 8 4 |
|-----------|-------|---------|-------|-------|

accompaniment by hexachord.

m.24-28, "das den Dingen so gebietet, wie dir dein Herr:"

I11                    A    B  
                         11 8 10   4 5 3   0 6 7   2 1 7  
   T2  
accompaniment by hexachord: A- in canon   4 5 3   2 1 9   0 6 7  
   B1    B2

B- dyads:                T2- 3,5  
   B1- 10,11  
   B2- 4,8

and accompanying p.c.9 in T1:  
   p.c.'s 0,1,2,6,7

m.29-33, "Dieses solltest du als Wunder erkennen!"

P6    T1: 6 9 7    1 0 2    5 11 10   3 4 8  
         T2: 1 0 2   11 8 10   2 1 9    10 11 0 1  
         B1: 11 8 10 4 5 3    3 4 8    5 7 6  
         B2: 4 5 3    6 9 7    0 6 7    2 6 9  
                          12            12            12            12

m.34-40, "Dass Einer sich auf lehnt, ist eine banale Selbst  
verständlichkeit."

I11    T1: 4 5 3    6 7 9    5 11 10   0 6 7  
         T2: 1 0 2 . . . .    2 1 9 . . . .  
         B1: 6 7 9   11 8 10   3 4 8    10 11 5  
         B2: 11 8 10 4 5 3   0 6 7    2 1 9