

to kill a monarch

seed: 19800725

michael winter  
(berlin, germany; 2021)

1.1

III 1/1 II 1/1 I

+0 +0 +0

1/1 1/1 1/1

$\text{♩} = 60$

I

II

III

\*

+41 +16 +4 +0

13/8 6/5 9/8 1/1

+0 +4 +16 -49

III 1/1 9/8 6/5 11/8

⑤

+2 -31

3/2 7/4

1.2

+2

3/2

+4 -49 +2

11/8 9/8 3/2

+2 +41 -31 +0 +4 +16

3/2 13/8 7/4 1/1 9/8 6/5

⑨

+0 +4 +2

1/1 9/8 3/2

+16 -31 +0

6/5 7/4 1/1

+0 +41 -49 +2 -31

1/1 13/8 11/8 3/2 7/4

+4 -49 +2 +0

III 9/8 11/8 -1- 3/2 1/1

**1.3**

13

I  $+16$   
 $6/5$

II  $+16$   $+2$   $+4$   
 $6/5$   $3/2$   $9/8$

III  $+41$   $-49$   
 $11/8$   $13/8$

\*  $+41$   $-31$   $-49$   $+41$   $+16$   
 $III 13/8$   $7/4$   $11/8$   $13/8$   $6/5$

**1.4**

17

I  $+41$   $-31$   $-49$   $+2$   
 $13/8$   $7/4$   $11/8$   $3/2$

II  $-31$   $+0$   $-49$   $-31$   
 $7/4$   $1/1$   $11/8$   $7/4$

III  $+0$   $+16$   $+41$   $+2$   $-49$   
 $1/1$   $6/5$   $13/8$   $3/2$   $11/8$

\*  $+2$   $+4$   $-31$   $+0$   
 $3/2$   $9/8$   $III 7/4$   $1/1$

**21**

I  $+41$   $+0$   $-31$   $+2$   $+0$   $+2$   $+4$   $+16$   $-49$   
 $1/1$   $7/4$   $3/2$   $13/8$   $1/1$   $3/2$   $9/8$   $6/5$   $11/8$

II  $+41$   
 $13/8$

III  $-31$   $+0$   $+2$   
 $7/4$   $1/1$   $3/2$

\*  $+41$   $+2$   $+0$   $-49$   $+2$   $+16$   $+41$   $+0$   
 $13/8$   $3/2$   $1/1$   $11/8$   $3/2$   $6/5$   $13/8$   $1/1$   $9/8$

(25) **1.5**

I  $\frac{7}{4}$   $\frac{1}{1}$   $\frac{1}{1}$

II  $\frac{3}{2}$   $\frac{3}{2}$

III  $\frac{9}{8}$   $\frac{7}{4}$   $\frac{6}{5}$

\*  $\frac{7}{4}$   $\frac{3}{2}$

(29) **1.6**

I  $\frac{9}{8}$

II

III

\*  $\frac{9}{8}$   $\frac{6}{5}$   $\frac{1}{1}$   $\frac{11}{8}$   $\frac{13}{8}$

(33) **1.7**

I  $\frac{13}{8}$   $\frac{7}{4}$   $\frac{3}{2}$

II  $\frac{1}{1}$   $\frac{6}{5}$   $\frac{9}{8}$   $\frac{11}{8}$

III  $\frac{3}{2}$   $\frac{1}{1}$   $\frac{13}{8}$   $\frac{11}{8}$

\*  $\frac{6}{5}$   $\frac{7}{4}$   $\frac{1}{1}$   $\frac{3}{2}$

37 1.8

Staff I: +16, +0, +2, +41; 6/5, 1/1, 3/2, 13/8

Staff II: +0, +41; 1/1, 13/8

Staff III: -31, +16, +41, +2, -49; 7/4, 6/5, 1/1, 3/2, 13/8, 11/8, 3/2

Staff \*: -49, -31; 11/8, 7/4

41 1.9

Staff I: -49, +4, +0; 11/8, 9/8, 1/1

Staff II: +4, +2; 9/8, 3/2

Staff III: -49, +0, +16; 11/8, 1/1, 6/5

Staff \*: +4, +0, +41, +0; 9/8, 1/1, 13/8, 1/1

45

Staff I: -31, +2, +16, +41; 7/4, 3/2, 6/5, 13/8

Staff II: +16, +0, +16, +41, -31, +2, +0, +41; 6/5, 1/1, 6/5, 13/8, 7/4, 3/2, 1/1, 13/8

Staff III: -31, +4; 7/4, 9/8

Staff \*: -49, -31, +16, +4; 11/8, 7/4, 6/5, 9/8

1.10

I

II

III

\*

49

+4

9/8

-49

-31

+2

11/8

7/4

3/2

+41

+0

+16

1/1

6/5

13/8

+2

+0

-49

III<sup>3/2</sup>

1/1

11/8

53

I

II

III

\*

1.11

-49

+0

1/1

11/8

+4

+41

9/8

13/8

-49

+2

3/2

11/8

9/8

+41

+0

13/8

1/1

-31

-49

III 7/4

11/8

The musical score for 'The Rose Tree' is presented in 12-tone equal temperament. It consists of four staves, labeled I, II, III, and a fourth staff marked with an asterisk (\*). The notation includes various time signatures (9/8, 3/2, 13/8, 7/4, 11/8, 1/1, 6/5, 3/4) and pitch bends (e.g., +41, -31, +4, +16, -49, +2, -31, +4). A box labeled '1.12' is positioned above the first staff. The score is divided into two measures by a double bar line.

61 -49

11/8

+4  
+2 -49 -31

3/2 11/8 7/4  
9/8

+4 -31 +16 +2 +0 +4

9/8 7/4 6/5 3/2 1/1 9/8

+41 -49 +0 +2 +41 +0

13/8 11/8 1/1 3/2 13/8 1/1

1.13

65 +16

6/5

+0

1/1

+41

13/8

-31

III 7/4

+4 +16

9/8 6/5

69 1.14

+4

9/8

-49

11/8

+0 -49 -31 +4

1/1 11/8 7/4 III 9/8

73 1.15

Staff I: +0, +41, -31  
Intervals: 1/1, 13/8, 7/4

Staff II: +2, +0, +16  
Intervals: 3/2, 1/1, 6/5

Staff III: -49, -31, +0, +41  
Intervals: 11/8, 7/4, 13/8, 1/1

Staff \*: +0  
Interval: 1/1

77

Staff I: +4, +2, +0, +16, +41, -49, +2, +4  
Intervals: 3/2, 1/1, 6/5, 13/8, 11/8, 3/2, 9/8

Staff II: -31, +41, -49, +4, +0, +16  
Intervals: 7/4, 13/8, 11/8, 9/8, 1/1, 6/5

Staff III: +16, +2, -31, +2  
Intervals: 16/5, 3/2, 7/4, 3/2

Staff \*: +2, -31, +4, +41, +16, +0  
Intervals: III<sup>3/2</sup>, 7/4, 9/8, 13/8, 6/5, 1/1

81 1.16

Staff I: +0, -49, +16, +2, -31, +0  
Intervals: 1/1, 11/8, 6/5, 3/2, 1/1, 7/4

Staff II: -31, +0, +2, +16  
Intervals: 7/4, 1/1, 3/2, 6/5

Staff III: +0, +4, -49  
Intervals: 1/1, 9/8, 11/8

Staff \*: +41, +2, +16, -49, +4  
Intervals: 13/8, 3/2, 6/5, 11/8, 7/4

85

II +4 -49 11/8 9/8

III +0 +16 +41 -31 1/1 6/5 13/8 7/4

\* +41 +0 +2 -31 +0 +16 +4 13/8 1/1 3/2 7/4 1/1 6/5 9/8

1.17

89

II -31 +41 +4 7/4 13/8 9/8

III +2 +4 +0 +2 +16 +4 +16 -31 -49 +16 +41 3/2 9/8 6/5 9/8 1/1 3/2 13/8 7/4 11/8 6/5 13/8

\* -49 +2 -31 -49 3/2 11/8 7/4

III 11/8

93

I +41 +2 +0 +16 -31 +2 13/8 3/2 1/1 6/5 13/8 7/4 3/2

II +2 3/2

III

\* +41 -31 +16 +0 +2 13/8 7/4 6/5 1/1 3/2

1.18



to kill a monarch (seed:19800725)

97

I

II

III

\*

+0 +4 -31 -49 +0 +16

1/1 11/8 9/8 7/4 11/8 1/1 6/5

+0 +16 +41 -31 -49 +2 +41 +4 -49 +16 +0

1/1 13/8 13/8 7/4 11/8 3/2 1/1 13/8 9/8 11/8 6/5 1/1 3/2

+2 +4 -31 +0 -49

3/2 9/8 7/4 1/1 11/8 1/1

+16 -31 -49 +2 +41 +0 -49

III 6/5 7/4 11/8 3/2 13/8 1/1 11/8

1.19

101

I

II

III

\*

-31 +4 +0 -31 +16 -49 -31

7/4 9/8 3/2 1/1 7/4 6/5 11/8 7/4

+4 -31 +41 -49 +16 +0

9/8 7/4 13/8 11/8 7/4 6/5 1/1

+16 +2

6/5 3/2

+4 -49 +16 +0 +16 -31

III 9/8 11/8 6/5 1/1 6/5 7/4

105

1.20

I

II

III

\*

+2 +41 +0

3/2 13/8 1/1

+4 +0 +2

1/1 9/8 3/2

109 1.21

Staff I:  $\frac{9}{8}$ ,  $\frac{7}{4}$ ,  $\frac{6}{5}$ ,  $\frac{13}{8}$

Staff II:  $\frac{3}{2}$ ,  $\frac{13}{8}$ ,  $\frac{6}{5}$

Staff III:  $\frac{7}{4}$ ,  $\frac{13}{8}$

Staff \*:  $\text{III } \frac{13}{8}$ ,  $\frac{11}{8}$ ,  $\frac{6}{5}$ ,  $\frac{3}{2}$ ,  $\frac{1}{1}$

113

Staff I:  $\frac{3}{2}$ ,  $\frac{9}{8}$

Staff II:  $\frac{11}{8}$

Staff III:  $\frac{9}{8}$ ,  $\frac{1}{1}$ ,  $\frac{9}{8}$

Staff \*:  $\text{III } \frac{7}{4}$ ,  $\frac{9}{8}$ ,  $\frac{1}{1}$ ,  $\frac{11}{8}$ ,  $\frac{3}{2}$

117 1.22

Staff I:  $\frac{13}{8}$ ,  $\frac{9}{8}$ ,  $\frac{7}{4}$ ,  $\frac{13}{8}$ ,  $\frac{1}{1}$ ,  $\frac{11}{8}$ ,  $\frac{6}{5}$

Staff II:  $\frac{13}{8}$ ,  $\frac{9}{8}$ ,  $\frac{7}{4}$ ,  $\frac{13}{8}$ ,  $\frac{1}{1}$ ,  $\frac{11}{8}$ ,  $\frac{6}{5}$

Staff III:  $\frac{3}{2}$ ,  $\frac{6}{5}$ ,  $\frac{11}{8}$ ,  $\frac{7}{4}$

Staff \*:  $\frac{6}{5}$ ,  $\text{III } \frac{3}{2}$

121

1.23

III 7/4

125

3/2

129

1.24

III 11/8

133

1.25

Staff I: -31, +16, +4, +41  
7/4, 6/5, 9/8, 13/8

Staff II: +0, +41, +16, -31, +16  
1/1, 13/8, 6/5, 7/4, 6/5

Staff III: +16  
6/5

Staff \*: -49, +0, +16, -31, +4  
11/8, 1/1, 6/5, 7/4, 9/8

137

Staff I: -49, -31  
7/4, 11/8

Staff II: -49, +0  
11/8, 1/1

Staff III: -31, +0  
7/4, 1/1

Staff \*: +0, +2, +0, +16, +0, +16  
III<sup>1/1</sup>, 3/2, 1/1, 6/5, 11/8, 1/1, 7/4, 6/5

1.26

141

Staff I: +41  
13/8

Staff II: +4, -31, +16, -31, +2, +0  
9/8, 7/4, 6/5, 7/4, 3/2, 1/1

Staff III: -49, +41, +16, +4, +0, +16, -31, +2, +41  
11/8, 13/8, 6/5, 9/8, 1/1, 6/5, 1/1, 7/4, 3/2, 1/1, 13/8

Staff \*: +4  
III<sup>9/8</sup>

145 1.27

Staff I: Treble clef, key signature change to B-flat major. Measure 145: whole note, B-flat. Measure 146: whole note, B-flat. Measure 147: whole note, B-flat. Measure 148: whole note, B-flat.

Staff II: Bass clef. Measure 145: whole note, B-flat. Measure 146: whole note, B-flat. Measure 147: whole note, B-flat. Measure 148: whole note, B-flat.

Staff III: Bass clef. Measure 145: whole note, B-flat. Measure 146: whole note, B-flat. Measure 147: whole note, B-flat. Measure 148: whole note, B-flat.

Staff \*: Treble clef. Measure 145: whole note, B-flat. Measure 146: whole note, B-flat. Measure 147: whole note, B-flat. Measure 148: whole note, B-flat.

149 1.28

Staff I: Treble clef. Measure 149: whole note, B-flat. Measure 150: whole note, B-flat. Measure 151: whole note, B-flat. Measure 152: whole note, B-flat.

Staff II: Bass clef. Measure 149: whole note, B-flat. Measure 150: whole note, B-flat. Measure 151: whole note, B-flat. Measure 152: whole note, B-flat.

Staff III: Bass clef. Measure 149: whole note, B-flat. Measure 150: whole note, B-flat. Measure 151: whole note, B-flat. Measure 152: whole note, B-flat.

Staff \*: Treble clef. Measure 149: whole note, B-flat. Measure 150: whole note, B-flat. Measure 151: whole note, B-flat. Measure 152: whole note, B-flat.

153

Staff I: Treble clef. Measure 153: whole note, B-flat. Measure 154: whole note, B-flat. Measure 155: whole note, B-flat. Measure 156: whole note, B-flat.

Staff II: Bass clef. Measure 153: whole note, B-flat. Measure 154: whole note, B-flat. Measure 155: whole note, B-flat. Measure 156: whole note, B-flat.

Staff III: Bass clef. Measure 153: whole note, B-flat. Measure 154: whole note, B-flat. Measure 155: whole note, B-flat. Measure 156: whole note, B-flat.

Staff \*: Treble clef. Measure 153: whole note, B-flat. Measure 154: whole note, B-flat. Measure 155: whole note, B-flat. Measure 156: whole note, B-flat.

157 **1.29**

I  $\frac{13}{8}$   $\frac{3}{2}$  +2 +41

II  $\frac{3}{2}$  +2 +16 +4 +0 -31 +0  $\frac{6}{5}$   $\frac{9}{8}$   $\frac{1}{1}$   $\frac{7}{4}$   $\frac{1}{1}$

III  $\frac{6}{5}$   $\frac{9}{8}$   $\frac{11}{8}$   $\frac{7}{4}$  +16 +4 -49 -31

\*  $\frac{11}{8}$   $\frac{7}{4}$  -49 +0 III  $\frac{1}{1}$

161

I +16 +0 +41  $\frac{6}{5}$   $\frac{1}{1}$   $\frac{13}{8}$

II -49 +41 +0 +2 +41 +0  $\frac{11}{8}$   $\frac{13}{8}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{13}{8}$   $\frac{1}{1}$

III +0 +41  $\frac{1}{1}$   $\frac{13}{8}$

\*  $\frac{11}{8}$   $\frac{3}{2}$   $\frac{13}{8}$  +2 -49 +41

**1.30** 165

I -31  $\frac{7}{4}$

II +2  $\frac{3}{2}$

III +2  $\frac{3}{2}$

\* +16 +0 +2 +4 -31 +16  $\frac{6}{5}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{9}{8}$   $\frac{7}{4}$   $\frac{6}{5}$

169 1.31

I  $\frac{13}{8}$   $\frac{9}{8}$   $\frac{3}{2}$   $\frac{1}{1}$   $\frac{6}{5}$   $\frac{11}{8}$   $\frac{9}{8}$

II  $\frac{9}{8}$

III  $\frac{6}{5}$   $\frac{1}{1}$

\*  $\frac{3}{2}$   $\frac{1}{1}$   $\frac{11}{8}$   $\frac{13}{8}$   $\text{III} \frac{7}{4}$

173 1.32

I  $\frac{6}{5}$   $\frac{3}{2}$   $\frac{7}{4}$

II  $\frac{7}{4}$   $\frac{6}{5}$   $\frac{11}{8}$   $\frac{1}{1}$   $\frac{13}{8}$   $\frac{3}{2}$   $\frac{1}{1}$

III  $\frac{3}{2}$

\*  $\frac{1}{1}$   $\frac{9}{8}$   $\frac{3}{2}$   $\text{III} \frac{1}{1}$

177

I  $\frac{3}{2}$   $\frac{1}{1}$   $\frac{13}{8}$   $\frac{9}{8}$   $\frac{6}{5}$

II  $\frac{9}{8}$

III  $\frac{7}{4}$   $\frac{1}{1}$   $\frac{9}{8}$   $\frac{6}{5}$   $\frac{11}{8}$

\*  $\frac{6}{5}$   $\frac{13}{8}$   $\frac{11}{8}$   $\frac{1}{1}$   $\frac{9}{8}$

181 1.33

11/8 1/1 7/4 3/2 6/5 13/8 III 7/4 11/8 13/8 1/1

185 1.34

13/8 6/5 1/1 3/2 11/8 9/8 3/2 11/8 9/8 3/2 7/4 III 6/5 11/8

189

9/8 1/1 9/8 13/8 1/1 7/4 3/2



**1.35**

193

Staff I: -31 +0 +2 +16 +0 -49 +0 +41 +16 -31 +2  
7/4 1/1 3/2 6/5 1/1 11/8 1/1 13/8 6/5 7/4 3/2

Staff II: +41  
13/8

Staff III: -31 +2  
7/4 3/2

Staff \*: +4 -31 +41 +16 +0 +41  
III 9/8 7/4 13/8 6/5 1/1 13/8

**1.36**

197

Staff I: +4  
9/8

Staff II:

Staff III: +16  
6/5

Staff \*: +2  
3/2

**201**

Staff I: +0 +2 +16 -49 -31 -49  
1/1 3/2 6/5 11/8 7/4 11/8  
1/1 13/8

Staff II: +0 -49 +4  
1/1 11/8 9/8

Staff III: +2 +0 +41 -49 +4 +2 -49  
3/2 1/1 13/8 11/8 9/8 3/2 11/8

Staff \*: +4 -49 +0  
III 9/8 11/8 1/1

The musical score for 'The Rose Tree' consists of four staves. Staff I (Treble clef) has a key signature of one flat and a 3/2 time signature. Staff II (Bass clef) has a key signature of two flats and a 6/5 time signature. Staff III (Bass clef) has a key signature of one flat and a 7/4 time signature. Staff \* (Treble clef) has a key signature of one flat and a 9/8 time signature. The score includes various pitch bends (e.g., +2, -31, +16) and time signatures (e.g., 3/2, 6/5, 7/4, 9/8, 11/8, 13/8). A double bar line is present after the first measure of each staff.

213

I

II

III

\*

8

9/8 13/8 9/8 7/4 3/2 1/1 7/4 6/5 11/8 9/8 1/1 11/8 13/8 6/5 1/1 7/4

+0 -31 +41 +16 +4 +2 +4 +41 +4 -31 +2 +0 -31 +16 -49 +4 +0 -49 -49 +16 +0

217 1.39

I  $+0$   $1/1$   $+16$   $6/5$

II  $+41$   $+0$   $13/8$   $1/1$

III  $+4$   $9/8$

\*  $-49$   $+0$   $III^{11/8}$   $1/1$

221 1.40

I  $+2$   $-49$   $-31$   $+0$   $+16$   $3/2$   $11/8$   $7/4$   $1/1$   $6/5$

II  $-49$   $11/8$

III  $+2$   $3/2$

\*  $+2$   $+4$   $3/2$   $9/8$

225 1.41

I  $+41$   $+2$   $+16$   $13/8$   $3/2$   $6/5$

II  $+0$   $+2$   $+0$   $+4$   $-31$   $1/1$   $3/2$   $1/1$   $9/8$   $7/4$

III  $+41$   $+0$   $+2$   $-49$   $-31$   $+2$   $13/8$   $1/1$   $3/2$   $11/8$   $7/4$   $3/2$

\*  $-31$   $+16$   $+2$   $-49$   $+41$   $III^{7/4}$   $6/5$   $3/2$   $13/8$   $11/8$

229

Staff I: 229, 230, 231, 232

Staff II: 229, 230, 231, 232

Staff III: 229, 230, 231, 232

Staff \*: 229, 230, 231, 232

1.42

233

Staff I: 233, 234, 235, 236

Staff II: 233, 234, 235, 236

Staff III: 233, 234, 235, 236

Staff \*: 233, 234, 235, 236

1.43

237

Staff I: 237, 238, 239, 240

Staff II: 237, 238, 239, 240

Staff III: 237, 238, 239, 240

Staff \*: 237, 238, 239, 240

241

6/5 1/1 13/8

6/5 13/8

3/2 11/8 13/8 7/4 6/5 9/8 11/8

7/4 3/2 6/5 9/8 1/1 11/8 6/5

2.1

13/8 13/9 9/8 1/1

9/8 13/8 1/1

245

1/1

1/1 11/8 9/8 6/5 13/8

9/8

11/8 6/5 1/1 7/4 1/1

2.2

9/8 1/1 9/8 1/1

1/1 13/9 1/1

249

3/2

1/1

7/4 1/1

1/1 9/8 11/8 6/5

**2.3**

III  $\frac{1}{1}$  II  $\frac{1}{1}$  I

$\frac{1}{1}$   $\frac{1}{1}$   $\frac{9}{8}$

253

I

II

III

\*

11/8 9/8 3/2 7/4 6/5 1/1

13/8

I 3/2 III 13/8

The image displays a musical score for the song "The Rose Tree". It consists of four staves, labeled I, II, III, and \*. Staff I is in treble clef, Staff II in alto clef, Staff III in bass clef, and Staff \* in bass clef with an 8-measure rest at the beginning. The score includes various musical notations such as notes, rests, and accidentals. Interval markings are provided for several measures: Staff I (1/1, 11/8, 6/5, 13/8, 9/8, 1/1, 3/2, 7/4), Staff II (11/8, 1/1, 3/2, 6/5), Staff III (3/2, 1/1, 11/8, 6/5), and Staff \* (III 9/8, 1/1, 11/8, 3/2, 7/4, 11/8, 6/5). Additional markings include +4, -45, +20, +44, +8, +6, -27, +20, +4, -45, +6, +20, -27, +4, -45, +20, and +8.

The image displays a musical score for the song "The Rose Tree". It consists of four staves, labeled I, II, III, and \*, each with its own key signature and time signature. Staff I is in G major (one sharp) and 13/8 time. Staff II is in D major (two sharps) and 3/2 time. Staff III is in D major (two sharps) and 9/8 time. Staff \* is in D major (two sharps) and 11/8 time. The score includes various musical notations such as notes, rests, accidentals, and dynamic markings. The lyrics "The Rose Tree" are written below the staves, with some words appearing on multiple staves. The score is divided into two systems by a double bar line. The first system contains the first two staves, and the second system contains the last two staves. The score ends with a double bar line and a repeat sign.

261

I  $\text{G major}$   $\frac{13}{8}$   $+44$

II  $\text{D major}$   $\frac{3}{2}$   $-45$   $+8$   $+44$   $-27$   $+4$   $+6$

III  $\text{D major}$   $\frac{9}{8}$   $+4$   $-27$   $+44$   $+8$   $+20$   $+4$   $+6$   $+8$   $-45$   $+4$

\*  $\text{D major}$   $\frac{11}{8}$   $-45$   $+6$   $+44$   $+4$   $-27$   $+8$   $-45$   $+20$

The Rose Tree

**3.1**

III 13/8 II 1/1 I

+4 +4 +4

1/1 13/8 1/1

265

I

II

III

\*

-45

11/8

+48

9/8

+46

3/2

-27

7/4

+6

3/2

+20

6/5

+44

13/8

-45

11/8

-27

III<sup>7/4</sup>

**3.2**

III 3/2 II 13/12 I

+4 +6 +4 +4 +4 +4

3/2 13/8 13/8

269

I

II

III

\*

-40

6/5

+44

1/1

+6

-45

-45

-27

11/8

7/4

3/2

11/8

-40

II<sup>6/5</sup>

+8

+46

III<sup>3/2</sup> I<sup>3/2</sup>

273

I

II

III

\*

+48

-15

-40

+46

+13

+44

-40

9/8

6/5

13/8

3/2

7/4

1/1

6/5

+4

+44

-45

+6

+4

+20

1/1

13/8

11/8

3/2

1/1

6/5

+8

3/2

-25

+44

-27

-40

+8

-40

+46

-25

+44

III<sup>7/4</sup> II<sup>13/8</sup>

7/4

I<sup>6/5</sup>

6/5

I<sup>3/2</sup>

III<sup>3/2</sup>

III<sup>7/4</sup>

II<sup>13/8</sup>

**3.3**

III 3/2 II 13/8 I

+6 +4 +4 +6 +44

3/2 3/2 1/1

(277)

I

II

III

\*

-27 -40 +8 +46

7/4 I<sup>6/5</sup> III<sup>3/2</sup> I<sup>3/2</sup>

3/2 11/8 7/4 1/1 13/8 1/1

+46

-43

11/8

7/4 1/1 13/8 1/1

3/2

**3.4**

III 13/8 II 13/8 I

+4 +6 +44 +44

1/1 13/12 1/1

(281)

I

II

III

\*

-4 +44 -40

11/8 1/1 6/5

-25 +46 -25 +6

7/4 13/8 7/4 1/1

+8 +20 +4 -45 -27 +4 +6 +44 +8

6/5 9/8 1/1 11/8 3/2 7/4 1/1 3/2 13/8 9/8

-25 -15 +13

II<sup>7/4</sup> I<sup>13/8</sup> 7/4

**3.5**

III 14/13 II 7/4 I

+4 -27 +44 +44 +4

7/4 1/1 13/8

(285)

I

II

III

\*

+13 -15 +48 +44 -15 +13 +46 +13 -40

7/4 13/8 9/8 1/1 13/8 7/4 3/2 7/4 6/5

-40 -15 -40 +46

6/5 13/8 6/5 3/2

-45 +20 +4 +6 +44 +20 +4 -27 -45 +44 -27 -45

11/8 6/5 3/2 13/8 6/5 1/1 11/8 13/8 11/8 7/4 7/4

-27 +48

III<sup>7/4</sup> II<sup>9/8</sup>

-24-



289

I

II

III

\*

3.6

293

I

II

III

\*

297

I

II

III

\*

to kill a monarch (seed:19800725)

11/8 1/1 13/8 9/8 1/1 11/8 3/2 6/5 7/4

1/1 9/8

13/8 1/1 3/2

II<sup>9/8</sup> III<sup>5/4</sup> 11/8 II<sup>13/8</sup> 7/4 II<sup>9/8</sup> I<sup>7/4</sup> III<sup>5/4</sup>

14/13 1/1 14/13 I

III<sup>-27</sup> II<sup>+44</sup> I<sup>+44</sup>

1/1 14/13 13/8

1/1 3/2 13/8 7/4

7/4

11/8 II<sup>13/8</sup> I<sup>7/4</sup> III<sup>7/4</sup> I<sup>9/8</sup>

9/8 1/1 7/4

13/8 1/1 7/4

9/8 3/2 11/8 5/4 3/2 13/8 1/1 5/4 7/4 9/8

9/8 III<sup>5/4</sup> 11/8

**3.7**

III  $\frac{1}{1}$  II  $\frac{1}{1}$  I

-27 -27 +44 -27

301

I  $\frac{1}{1}$   $\frac{1}{1}$   $\frac{14}{13}$   $\frac{13}{8}$   $\frac{1}{1}$   $\frac{11}{8}$   $\frac{1}{1}$   $\frac{5}{4}$   $\frac{7}{4}$   $\frac{13}{8}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{1}{1}$   $\frac{9}{8}$

II  $\frac{3}{2}$   $\frac{11}{8}$   $\frac{13}{8}$   $\frac{3}{2}$   $\frac{9}{8}$

III  $\frac{3}{2}$   $\frac{13}{8}$   $\frac{1}{1}$   $\frac{5}{4}$   $\frac{13}{8}$

\*  $\text{III}^{11/8}$   $\frac{1}{1}$   $\frac{7}{4}$   $\frac{9}{8}$   $\frac{1}{1}$

Intervals: -27, +13, +24, -41, +42, +13, -27, -25, -27, -23, -25, +24, +13, -25, -23

305

I

II  $\frac{1}{1}$

III  $\frac{1}{1}$

\*  $\frac{13}{8}$   $\frac{7}{4}$   $\frac{5}{4}$   $\frac{3}{2}$   $\frac{11}{8}$

Intervals: -27, -27, +13, +42, -41, -25, +24

**4.1**

III  $\frac{4}{3}$  II  $\frac{16}{13}$  I

-27 -27 -25 +13

309

I  $\frac{1}{1}$   $\frac{4}{3}$   $\frac{16}{13}$   $\frac{7}{4}$   $\frac{1}{1}$

II  $\frac{9}{8}$   $\frac{11}{8}$

III  $\frac{9}{8}$   $\frac{11}{8}$   $\frac{1}{1}$   $\frac{7}{4}$

\*  $\text{III}^{3/2}$   $\frac{7}{4}$

Intervals: -18, +13, -21, +26, -23, +24, -27, +42, -25, +42

**4.2**

III 16/13 II 4/3 I 13/12

-27 +13 -25 -27 +13 -25

16/13 4/3 13/12

313

I

II

III

\*

11/8 3/2 11/8 5/4

13/8

3/2

1/1 13/8 7/4 1/1 9/8 7/4 4/3

17

III 9/8

**4.3**

III 4/3 II 4/3 I 1/1

+13 -27 -27 -25 -25

16/13 4/3 1/1

317

I

II

III

\*

5/4

3/2

9/8

5/4

11/8 3/2 III 7/4 II 7/4 III 9/8 I 11/8

321

I

II

III

\*

1/1 9/8 11/8

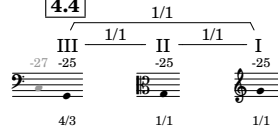
13/8 1/1 5/4 1/1 7/4 5/4

7/4

11/8 3/2 7/4 9/8 III 7/4

-27-

4.4



325

I  $\frac{7}{4}$   $\frac{5}{4}$   $\frac{11}{8}$   $\frac{7}{4}$   $\frac{5}{4}$  +44 -39 +26 -39 +44

II

III

\*  $\frac{11}{8}$   $\frac{11}{8}$   $\frac{3}{2}$   $\frac{7}{4}$  -39 -21 +26 -23 +44  $\frac{11}{8}$   $\frac{3}{2}$   $\frac{7}{4}$   $\frac{5}{4}$

II  $\frac{5}{4}$  III  $\frac{9}{8}$

329

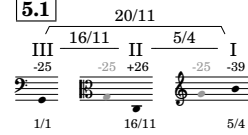
I  $\frac{1}{1}$   $\frac{3}{2}$   $\frac{13}{8}$   $\frac{9}{8}$  -25 -23 +15 -21

II  $\frac{3}{2}$   $\frac{1}{1}$   $\frac{9}{8}$   $\frac{1}{1}$   $\frac{11}{8}$   $\frac{3}{2}$   $\frac{7}{4}$  -23 -25 -21 -25 +26 +15 -23 +44

III  $\frac{1}{1}$   $\frac{3}{2}$   $\frac{13}{8}$   $\frac{11}{8}$   $\frac{1}{1}$   $\frac{9}{8}$   $\frac{7}{4}$  -25 -23 +15 +26 -25 -21 +44

\*  $\frac{5}{4}$   $\frac{1}{1}$   $\frac{9}{8}$   $\frac{3}{2}$   $\frac{5}{4}$   $\frac{11}{8}$   $\frac{13}{8}$   $\frac{9}{8}$   $\frac{13}{8}$   $\frac{7}{4}$  -39 -25 -21 -23 -39 +26 +15 -21 +44 +15

5.1



333

I

II  $\frac{1}{1}$   $\frac{5}{4}$  -25 -39

III

\*  $\frac{5}{4}$  -39

337

I 11/8 1/1 6/5 3/2 11/8

II 3/2 11/8 7/4

III 13/8 3/2

\* 9/8 3/2 13/8 7/4

5.2

I 5/4 20/11 5/4

III 7/4 11/8 6/5 7/4

\* 3/2 7/4 9/8 9/8

5.3

I 5/4 13/8 1/1 5/4 11/8 3/2 1/1 13/8

II 9/8 6/5 3/2 1/1

III 1/1 11/8

\* 5/4 13/8

5.4

20/13

III 1/1 II 20/13 I  
+15 -25 +15 -39  
1/1 16/13 1/1

(349) -35 +30  
7/4 9/8  
I  
II +44  
7/4  
III +15 +17  
1/1 3/2 -44  
13/8  
\* +12 -37 +30 +17  
I 11/8 3/2 7/4 III 3/2

(353) +12  
11/8  
I  
II +15 -44  
1/1 13/8  
III +15 +19 +13  
1/1 9/8 4/3 +3 +17  
15/8 3/2  
\* +3 -35 +12 +19 +13 +17  
I 9/8 I 11/8 III 9/8 4/3 3/2  
III 15/8

5.5

1/1

III 1/1 II 1/1 I  
+15 +15 -39 +15  
1/1 1/1 20/13

(357)  
I  
II  
III +13 +17  
+15 +31  
1/1 6/5  
4/3 3/2  
\* +31 +15  
III 6/5 1/1

361

I

II

III

\*

3/2 9/8 6/5 1/1 15/8 4/3

9/8 3/2 4/3 6/5

1/1 13/8 15/8 9/8 1/1 3/2 4/3 1/1

4/3 15/8 4/3 13/8 3/2 6/5 4/3 1/1 9/8 1/1 13/8

+17 +19 +31 +15 +3 +13

+19 +17 +13 +31

+15 -44 +3 +19 +15 +17 +13 +15

+13 +13 -44 +17 +31 +13 +15 +19 +15 -44

6.1

16/15 9/8 6/5 1/1

III II I

+15 +19 +15 +15 +3

9/8 1/1 16/15

365

I

II

III

\*

8/5 3/2 1/1 6/5 3/2 1/1

4/3 6/5 II<sup>13/8</sup>

+21 +33 +19 +35 +21 +19

+13 +31 -44

6.2

16/15 6/5 9/8 1/1

III II I

+19 +15 +3 +3 +15

1/1 16/15 16/15

369

I

II

III

\*

13/8 3/2

15/8 1/1

9/8 8/5 15/8 1/1 3/2

III<sup>3/2</sup>

+44 +5 +3 +15 +23 +33 +7 +19 +21 +21

6.3

III 1/1 II 1/1 I

+19 +3 +19 +15 +19

1/1 6/5 9/8

373

I

+19

9/8

13/8 1/1 9/8

II

-45 +44

11/8 13/8

+7 +5

9/8 3/2

-28

7/4

-10 -45

5/4 11/8

III

+7

15/8

+35

6/5

\*

+21

III 3/2

377

I

+21 +35 -30 +33

6/5 3/2 11/8 8/5

+35 +19 +7

6/5 1/1 15/8 3/2

II

+21

3/2

+19

1/1

-30 +33

11/8 8/5

III

\*

+19

III 1/1

+7

15/8

+33

8/5

+19

1/1

+35

6/5

+21

3/2

381

I

-30

11/8

+23

9/8

II

III

+23

9/8

+19

1/1

-30

11/8

+33

8/5

+19

1/1

+23

9/8

\*

+35 +19

6/5 1/1

+33

8/5

+19

1/1

+21

3/2

+23 +35

9/8 6/5

+7

15/8

+33

8/5

-30

11/8

+35

6/5

+19

1/1



**7.1**

75/64

III 5/4 II 16/15 I

+19 +19 +33 +19 +7

1/1 5/4 16/15

385

I

7/4 1/1 13/8 3/2

-24 +7 +48

48

13/8

II

+33 +19 +37

1/1 5/4 9/8

III

+21 +7

3/2 15/8

\*

+33 +7 +23 +35 -30 +33 +7 +23

III<sup>8/5</sup> 15/8 9/8 II<sup>3/2</sup> III<sup>11/8</sup> III<sup>8/5</sup> 15/8 9/8

I<sup>13/8</sup>

**7.2**

5/4

III 75/64 II 16/15 I

+19 +7 +33 +7 +19

16/15 1/1 16/15

389

I

-41

11/8

II

+23 +19 +23

9/8 1/1 9/8

III

+7 +9 -24

1/1 3/2 7/4 3/2

\*

+35 -30 +48

II<sup>3/2</sup> III<sup>11/8</sup> I<sup>13/8</sup>

+48 -24 -4

III<sup>13/8</sup> 7/4 15/8

393

I

+23

9/8

II

+37 +19 +33 -16 +33 +35 +37

5/4 1/1 11/8 1/1 3/2 9/8

III

-6 -41 +48 -24

5/4 11/8 13/8 7/4

\*

+11 +23 +35 +9 +48 -24 -4 +11 +23 +35

9/8 I<sup>9/8</sup> II<sup>3/2</sup> III<sup>3/2</sup> 13/8 7/4 15/8 9/8 I<sup>9/8</sup> II<sup>3/2</sup>

**7.3**

III  $\frac{9}{8}$  II  $\frac{16}{15}$  I

+7 +19 +33 +23 +19 +7

16/15 45/32 16/15

397

I  $\frac{5}{4}$   $\frac{13}{8}$

II  $\frac{6}{5}$

III  $\frac{6}{5}$   $\frac{15}{8}$

\*  $\frac{1}{3/2}$   $\frac{13}{8}$

-6 +48

+39

+7 +35

+9 +48

**7.4**

III  $\frac{6}{5}$  II  $\frac{6}{5}$  I

+19 +7 +23 +7 +23

16/15 1/1 6/5

401

I  $\frac{3}{2}$

II  $\frac{1}{1}$   $\frac{13}{8}$   $\frac{7}{4}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{9}{8}$   $\frac{11}{8}$

III  $\frac{8}{5}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{9}{8}$

\*  $\frac{13}{8}$   $\frac{11}{8}$   $\frac{3}{2}$

+9

+23 -36 -8 +23 +25 +27 -26

+33 +19 +21 +23

+48 +25

**7.5**

III  $\frac{6}{5}$  II  $\frac{6}{5}$  I

+19 +7 +23 +7 +23

16/15 1/1 6/5

405

I  $\frac{1}{1}$   $\frac{9}{8}$   $\frac{7}{4}$   $\frac{11}{8}$   $\frac{3}{2}$

II  $\frac{7}{4}$

III  $\frac{11}{8}$

\*  $\frac{11}{8}$   $\frac{3}{2}$

+23 +27 -8 -26 +25

-8 +11 -6 +27 +9

$\frac{11}{8}$   $\frac{3}{2}$

7.5

III  $\frac{1}{1}$  II  $\frac{1}{1}$  I

+7 +23 +23 +23

6/5 1/1 1/1

409

I

II +23 +39 +25 +27

1/1 6/5 3/2 9/8

III +27 -8 +23 -36 +23 +39 -26

9/8 7/4 3/2 1/1 13/8 1/1 6/5 11/8

\*

-8 -36 +23

III  $\frac{7}{4}$  13/8 1/1

413

I +39

6/5

II -26 +23 -8 +27 -8 -26 +25 -36 +23

11/8 1/1 7/4 6/5 9/8 7/4 11/8 3/2 13/8 1/1

III +25 -36 +23 +27 -26 +25

3/2 13/8 1/1 11/8 9/8 3/2

\*

+39 +25 -26 +27 -8 -26 +23

6/5 3/2 11/8 9/8 7/4 1/1 11/8

8.1

III  $\frac{16}{13}$  II  $\frac{6}{5}$  I

+23 +23 -36 +23 +39

1/1 16/13 6/5

417

I -26 -36 -8 +23

13/8 7/4 11/8 1/1

II +39

6/5

III -8

7/4

\*

+25 +39 -8 +27 +23

3/2 6/5 7/4 9/8 1/1

421 +43

I 9/8

II +15 -36 -36 -33 -36 +15 -33 +50 +4

11/8 1/1 1/1 9/8 1/1 11/8 9/8 5/4 13/8

III -26

11/8

\* +25 +43 -36 -33 +27 +39 +43

I 9/8 III 3/2 13/8 II 9/8 III 9/8 6/5 I 9/8

8.2 16/13

III 1/1 II 16/13 I

+23 -36 -36 +39 +23

425 16/13 1/1 6/5

I +25 -26 -8 -36 +23 -26 +25 +23

3/2 11/8 7/4 13/8 1/1 11/8 3/2 1/1

II +32 +50 -34 +4

7/4 5/4 3/2 13/8

III -36 +4 -34 +4

1/1 13/8 3/2 13/8

\* +4 +25 -33 +27 -34 +4

III 13/8 I 3/2 III 9/8 I 9/8 III 3/2 13/8

8.3 9/8

III 18/13 II 16/13 I

-36 -36 +27 +23

429 1/1 18/13 1/1

I +27 -36 +27

9/8 13/8 9/8

II -22

11/8

III +50 -33

5/4 9/8

\* -22 +50 -33

II 11/8 III 9/8 5/4

**8.4**

III 18/13 II 18/13 I

-36 +27 +23 +27

1/1 1/1 9/8

(433)

I 7/4 3/2 6/5

II

III

\* I<sup>9/8</sup> II<sup>9/8</sup> III<sup>13/8</sup>

+27 +31 +4

**8.5**

III 1/1 II 1/1 I

-36 +27 +27 +27

18/13 1/1 1/1

(437)

I

II +27 +31 -4 +29

1/1 9/8 7/4 3/2

III -36 +15 +50 +50 +4 +32

1/1 11/8 5/4 5/4 13/8 7/4

3/2 3/2

\* +4 -22 -4 +31 +4 -22 -4

13/8 II<sup>11/8</sup> 7/4 9/8 III<sup>13/8</sup> II<sup>11/8</sup> 7/4

(441)

I -22 +27 +43 -22 -33 -4 +31

11/8 1/1 6/5 11/8 13/8 7/4 9/8

II -33 +31

13/8 9/8

III +43 -22 +31 -22 +27 +29 +31 -4

11/8 9/8 6/5 11/8 1/1 3/2 9/8 7/4

\* -22 +29 -33 -4 +27 +43

III<sup>11/8</sup> 3/2 13/8 7/4 1/1 6/5

9.1

14/13

III	8/7	II	16/13	I
+27	+27 -4	+27 -33		

1/1

8/7

16/13

+19

11/8

1/1

3/2

9/8

1/1

9/8

11/8

9/8

13/8

7/4

1/1

3/2

9/8

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13/8

7/4

1/1

3/2

9/8

11/8

6/5

9/8

13/8

7/4

1/1

3/2

9/8

11/8

6/5

9/8

13/8

7/4

1/1

3/2

9/8

11/8

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7/4

1/1

3/2

9/8

11/8

6/5

9/8

13/8

7/4

1/1

3/2

9/8

11/8

6/5

9/8

**9.3**

III  $\frac{1}{1}$  II  $\frac{1}{1}$  I

+27 -33 16/13 1/1 14/13 -46

457

I

II

III

\*

6/5 11/8 3/2 1/1

13/8 7/4 1/1 5/4 3/2 11/8 13/8

1/1 11/8 9/8 5/4 1/1 3/2 13/8 7/4

III 11/8

461

I

II

III

\*

1/1 7/4 9/8 1/1 7/4 11/8 9/8 1/1 13/8

5/4 1/1 11/8

13/8 5/4 3/2 9/8 1/1 3/2 9/8 11/8 5/4

**10.1**

III  $\frac{9}{8}$  II  $\frac{9}{8}$  I

-33 -29 9/8 1/1 1/1 -46

465

I

II

III

\*

3/2 5/4 3/2 5/4

9/8

1/1 3/2 13/8

1/1 3/2 13/8

II 3/2

10.2

III 4/3 II 3/2 I  
-29 -31 -33 -33 -29  
3/2 1/1 9/8

469

I 7/4 +40

II -46 -31 5/4 3/2

III

\* +8 -27 +21 -29  
13/8 III 3/2 III 11/8 3/2

473

I 13/8 +12

II -46 +36 -33 -31 +8 +19 -46 -31 -46  
5/4 7/4 1/1 3/2 13/8 11/8 5/4 3/2 5/4

III +38 -31 +21  
7/4 9/8 11/8 1/1

\* -46 -13 -31 +8 -27 +21  
II 5/4 I 6/5 II 3/2 13/8 I 3/2 III 11/8

10.3

III 4/3 II 1/1 I  
-31 -33 -29 -31  
1/1 1/1 3/2

477

I -29 -31 -44  
3/2 1/1 5/4

II +8 +36  
13/8 7/4

III -27 -31  
9/8 1/1

\* -29 +10 +38 +8  
III 3/2 13/8 7/4 II 13/8



10.4

13/12

III  $\frac{1}{1}$  II  $\frac{13}{12}$  I

-31 -33 -31 -31 +8

$\frac{1}{1}$   $\frac{4}{3}$   $\frac{13}{12}$

(481)

I  $\frac{11}{8}$   $\frac{7}{4}$   $\frac{1}{1}$

II -31  $\frac{1}{1}$

III -29  $\frac{3}{2}$

\*  $\frac{13}{8}$   $\text{III}^{\frac{5}{4}}$

+21 +8 -23 +8

10.5

$\frac{1}{1}$

III  $\frac{1}{1}$  II  $\frac{1}{1}$  I

-31 -31 +8 -31

$\frac{1}{1}$   $\frac{1}{1}$   $\frac{13}{12}$

(485)

I  $\frac{3}{2}$

II -29 +38 -27 +21 +10 -44 -29 +10 -27 -31  $\frac{3}{2}$   $\frac{7}{4}$   $\frac{9}{8}$   $\frac{11}{8}$   $\frac{13}{8}$   $\frac{5}{4}$   $\frac{3}{2}$   $\frac{13}{8}$   $\frac{9}{8}$   $\frac{1}{1}$

III +10 +38  $\frac{13}{8}$   $\frac{7}{4}$

\* -6 -29  $\text{I}^{\frac{5}{4}}$   $\text{III}^{\frac{3}{2}}$

(489)

I  $\frac{9}{8}$   $\frac{13}{8}$   $\frac{1}{1}$   $\frac{3}{2}$   $\frac{13}{8}$   $\frac{7}{4}$   $\frac{5}{4}$

II +38 +21 -44 -29 -31 +21 +10 -29  $\frac{7}{4}$   $\frac{11}{8}$   $\frac{3}{2}$   $\frac{1}{1}$   $\frac{13}{8}$   $\frac{3}{2}$   $\frac{11}{8}$

III +21 -44 +10 -29 -31 -44 +38 +10  $\frac{11}{8}$   $\frac{5}{4}$   $\frac{13}{8}$   $\frac{11}{8}$   $\frac{3}{2}$   $\frac{1}{1}$   $\frac{5}{4}$   $\frac{7}{4}$   $\frac{13}{8}$

\* -44 +38 +10  $\text{III}^{\frac{5}{4}}$   $\frac{7}{4}$   $\frac{13}{8}$

493 +21

I 11/8

II

III

\*

+21 -29 -31 -27 +10 +21 +38 +10 -29

11/8 3/2 1/1 9/8 13/8 11/8 7/4 13/8 3/2