Wolfgang von Schweinitz

Plainsound String Trio

“KLANG auf Schön Berg La Monte Young”

in 5-limit Just Intonation

op. 39

1999 / 2013

PERFORMANCE SCORE

REVISED VERSION

for

Andrew Tholl, Andrew McIntosh, Ashley Walters

and the Monday Evening Concerts, Los Angeles

PLAINSOUND MUSIC EDITION

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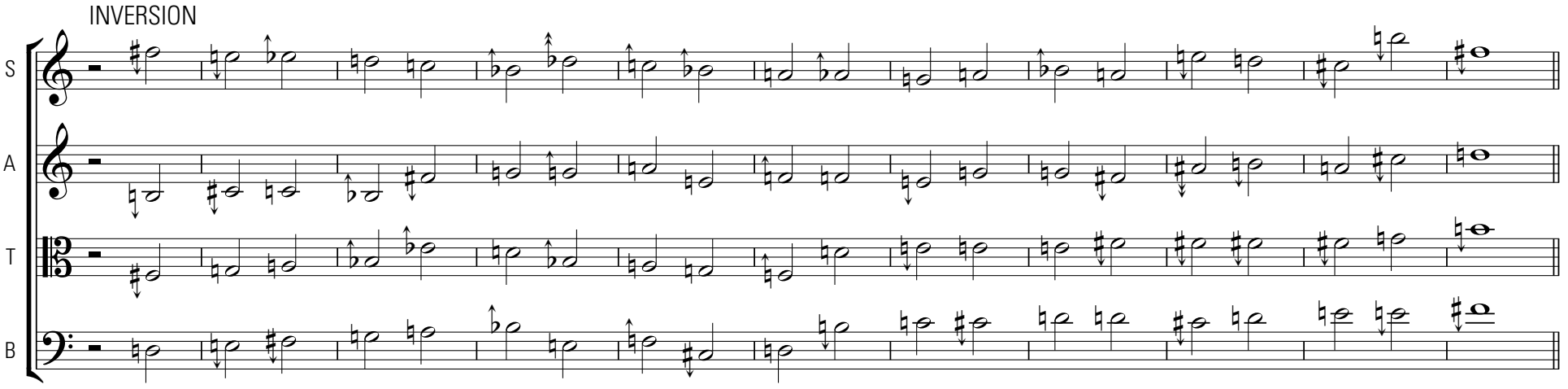
PREFACE

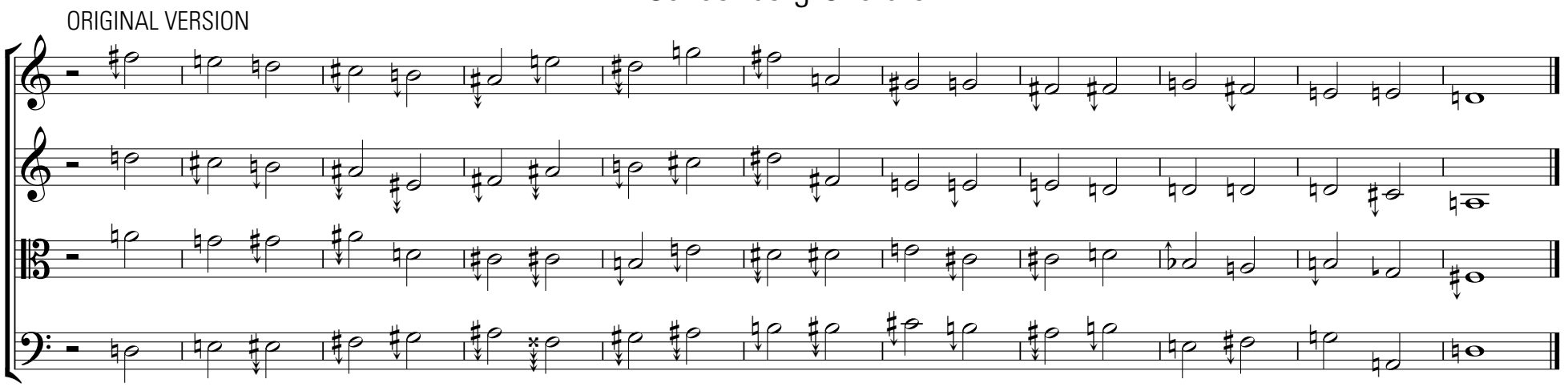
This string trio is entirely based on a 4-part carol composed by Arnold Schoenberg in Los Angeles as the note example #77a on page 58 of his "Structural Functions of Harmony" (edited by Leonard Stein and first published 1954 by Ernest Benn Limited, London and Tonbridge, Kent). The chorale is transposed up a major whole-tone (frequency ratio 8 : 9) from C to D, tuned in classical 5-limit just intonation with pure thirds and perfect fifths, and performed at a very slow tempo - with some helpful ornamentations that serve to establish the non-tempered intonation. In large or medium-size acoustic spaces, the piece should best be performed with a subtle amplification, using three microphones placed closely above the instruments and an additional microphone which is placed about 6-8 feet above the middle of the triangle defined by the instruments. The four microphone signals are played back at low volume through two speakers (near-field or mid-field monitors) which are placed directly behind the violin and viola player, facing the opposite rear corner of the hall, so that their sound waves will cross each other above the audience.

INVERSION



Schoenberg-Chorale

ORIGINAL VERSION

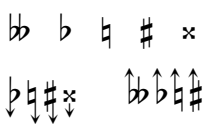


Performance duration : circa 40 - 45 minutes

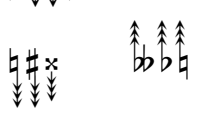
ACCIDENTALS

Extended Helmholtz-Ellis JI Pitch Notation

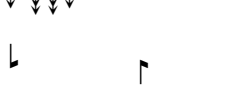
devised in 2001 in collaboration with Marc Sabat



Pythagorean series of perfect fifths, based on the open strings (… c g d a e …)



lowers / raises the pitch by a syntonic comma
81 : 80 = circa 21.5 cents



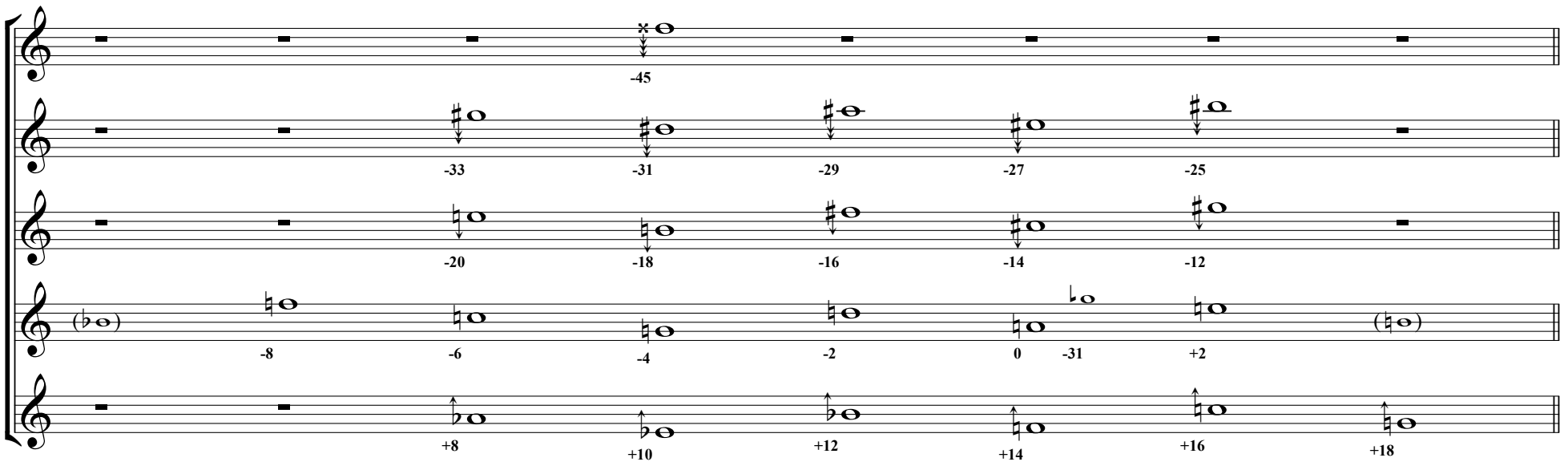
lowers / raises the pitch by two syntonic commas
circa 43 cents

lowers / raises the pitch by three syntonic commas
circa 64.5 cents

lowers / raises the pitch by a septimal comma
64 : 63 = circa 27.3 cents

TUNING TABLE

5-limit harmonic pitch-class projection space
made up of pure thirds and perfect fifths



Plainsound String Trio

"KLANG auf Schön Berg La Monte Young"

Wolfgang von Schweinitz
op. 39 (1999 / 2013)
revised version

♩ ca. 36 - 48

Lento rubato assai, sempre non vibrato, con molto d'arco, poco vicino al ponticello

Violin

Viola

Violoncello

con sord. (Tourte)

gliss.

piano sonore

sonore

piano

The open strings are tuned in non-tempered perfect fifths and serve to facilitate the desired just intonation.

Any note may have a fermata, so that every tuned sound may be prolonged as needed.
Some of the short loops may be played three times. Performance duration: ca. 40 min.

9 **1** **2**

dolcissimo

64 / 27

senza sord.

espr.

27 / 16

19 **3**

Minor Chroma
25 : 24
(-71 c)

12 / 5

espr.

dolcissimo

32 / 27

28 **4**

gliss.

gliss.

38 **5**

espr.

dolciss.

48

6

espr. *dolciss.*

32 / 27

12 / 5 5 / 3

marcato

dolce

59

7 **8**

dolce

sonore

dolcissimo

dolcissimo

sonore

70

27 / 16

gliss. *gliss.*

12 / 5

9

espr.

port.

espr.

gliss.

espr.

80

10

slide page

sonore

sonore

sonore

più sonore

molto sonore

slide page

slide page

molto sonore

90

ritenuto ***a tempo***

11

dolce

pianissimo marc.

dolce

slide page

6 / 5

128 / 75

dolciss.

espr.

100

12

molto espr.

dolciss.

dolciss.

marc.

ritenuto

13 ***a tempo***

dolciss.

110

14

espr.

sonore

15

dolce

dolciss.

sonore

121

ritenuto

a tempo

16

Minor Chroma
24 : 25
(+71 c)

espr.

dolce

sonore

17

sonore

131

18

espr.

marc.

dolce

espr.

espr.

141

19

espr.

20

dolciss.

sonore

molto sonore

slide 2 pages

dolciss.

sonore

slide 2 pages

dolciss.

sonore

slide 2 pages

151 **21**

con sord. (Tourte) -2 dolciss.

con sord. (Tourte) dolciss. sonore

con sord. (Tourte) dolciss. molto sonore

II dolciss. sonore

162 **22** ritenuto **23** a tempo

dolce dolciss.

sforzato dolciss. marc.

dolciss. (+71 c)

173 **24**

gliss.

184 ritenuto a tempo **25**

gliss.

dolciss. espr. gliss. marc.

dolciss.

195 **26**

dolciss. espr. gliss.

dolciss. gliss.

206

ritenuto

a tempo

27

dolciss.

-3

12 / 5

8 / 3

dolciss.

-1-

(41 cents lower than G)

-1

4

dolciss.

gliss.

217

28

4 4

3

3

3 4

4

3-

(sixte ajoutée)

-4-

slide page

gliss.

gliss.

9 / 4

3- -1-

4- -1-

12 / 5

sonore

27 / 10

slide page

228

29

-4

dolciss.

luminoso

dolciss.

-1

luminoso

3

1-

luminoso

239

30

ritenuto

0 2 2-

4-

0 3

0

a tempo

31

gliss.

espr.

dolciss.

27 / 16

slide page

80 : 81

0 1

pianissimo marcato (al pont.)

-1-

Major Chroma

128 : 135

(+92 c)

8 / 5

I 2 -1-

6 / 5

dolciss.

espr.

dolciss.

250

32

4

3- 0

0

marcato

espr.

espr.

261

ritenuto

a tempo

33

senza sord.

espr.

marc.

senza sord. **IV**

dolciss.

senza sord. **IV**

dolciss.

dolciss.

272

34

35

sonore

molto forte

sonore

espr. **III** **II**

sonore

283

36

37

dolce

marcato

dolce

espr.

molto espr.

295

38

39

sonore

cresc.

più sonore

sonore

cresc.

più sonore

gliss.

marc.

7 / 4

sonore

cresc.

più sonore

306

40

ritardando e poco a poco più vicino al ponticello

cresc.

molto sonore

poco a poco dim.

al niente

... s. p.

cresc.

molto sonore

poco a poco dim.

al niente

... s. p.

cresc.

molto sonore

poco a poco dim.

al niente