

Wolfgang von Schweinitz

Plainsound Fanfare “Notre Dame”

Concertino in 19-limit Just Intonation

for flute, 2 trumpets (in E-flat and B-flat), alto trombone (with trill valve),
4 timpani, small tomtom, and double bass (with quarter-tone scordatura)

op. 65

2019

*for Michael Matsuno, Matt Kline
and their friends at UCSD*

- SCORE -

PLAINSOUND MUSIC EDITION

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PROGRAM NOTE

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The Plainsound Fanfare “Notre Dame” was composed during the summer weeks of 2019 for flutist Michael Matsuno, bassist Matt Kline and their friends at the University of California in San Diego. On April 15 of that year, the roof of the cathedral Notre-Dame de Paris had caught fire and burned down, and the cathedral, which has been one of the cradles of polyphony in European music, was severely damaged as a result of this incident. So the medieval composers Léonin and Pérotin who filled that grand acoustic space with their Gothic Organum music came to my mind while I was working on the parts for the trumpets and the alto trombone, which are alluding to this oldest form of polyphony with their many parallel fourths and fifths.

Here are some technical remarks with regard to the harmonic language of the piece, which is derived from and based on the harmonically related pitches that can be played on the trumpets without the need to alter the intonation of any note by liping it up or down:

The alto trombone must be equipped with a trill valve, the slide of which is tuned as a non-tempered diatonic semitone (with a frequency ratio $16/15$, or 112 cents) in the first position. The semitone trills generated with the trill valve are gradually getting a bit smaller as the trombone slide is extended step by step, until they reach the size of an 11-limit semitone $22/21$ or 81 cents. This phenomenon provides the conceptual basis for the pitch repertoire or tone system of the entire microtonal composition. The three valve slides of the trumpets are tuned to precisely match this u-tonal harmonic series of chromatic pitches (with wave length ratios $15:16:17:18:19:20:21:22$), and the notes of the timpani part are also tuned to this microtonal chromatic scale of pitches, all of which serve as temporary tonic notes or tonal centers throughout the piece. On the double bass, these pitches can all be tuned by ear below some natural harmonic played on the G string or D string. The A string and the E string are lowered by an 11-limit quartertone ($33/32$ or 53 cents) to support or harmonize the pitches played on the trombone with its longest possible tube length (which yields a series of harmonics based on A-quarter-flat).

The flutist joins in by performing a continuous melodic sequence of more or less challenging tuning tasks, and many pitches of the flute part must be produced with special microtonal fingerings in order to be in tune with the harmonies played by the brass and the bass. This ensemble intonation study is also a concerto for the flute. (WvS)

BIO

Wolfgang von Schweinitz was born in Hamburg, Germany in 1953. He studied in 1968-76 with Esther Ballou, Ernst Gernot Klusmann, György Ligeti, and John Chowning and is currently living in Southern California, thirty miles north of CalArts (California Institute of the Arts), where he was invited to assume the succession of James Tenney in 2007. Since 1997 his compositions are concerned with developing new microtonal tuning and ensemble playing techniques based on non-tempered just intonation.

Website: www.plainsound.org

ACCIDENTALS

for microtonal just intonation

EXTENDED HELMHOLTZ-ELLIS JI PITCH NOTATION

The exact intonation of each pitch is written out by means of the following harmonically defined accidentals:

$\flat\flat$ \flat \natural \sharp \times		<i>Pythagorean series of perfect fifths, based on the open strings (... c g d a e ...)</i>
$\flat\downarrow$ $\natural\downarrow$ $\sharp\downarrow$ $\times\downarrow$	$\flat\uparrow$ $\natural\uparrow$ $\sharp\uparrow$ $\times\uparrow$	<i>lowers / raises the pitch by a syntonic comma: $81 : 80 = \text{circa } 21.5 \text{ cents}$</i>
$\flat\downarrow\downarrow$ $\natural\downarrow\downarrow$ $\sharp\downarrow\downarrow$ $\times\downarrow\downarrow$	$\flat\uparrow\uparrow$ $\natural\uparrow\uparrow$ $\sharp\uparrow\uparrow$ $\times\uparrow\uparrow$	<i>lowers / raises the pitch by two syntonic commas: $\text{circa } 43 \text{ cents}$</i>
$\flat\downarrow$	$\natural\uparrow$	<i>lowers / raises the pitch by a septimal or 7-limit comma: $64 : 63 = \text{circa } 27.3 \text{ cents}$</i>
$\flat\downarrow\downarrow$	$\natural\uparrow\uparrow$	<i>lowers / raises the pitch by two septimal commas: $\text{circa } 54.5 \text{ cents (not used in this piece)}$</i>
$\natural\downarrow$	$\sharp\downarrow$	<i>raises / lowers the pitch by an 11-limit quarter-tone: $33 : 32 = \text{circa } 53.3 \text{ cents}$</i>
$\natural\downarrow\downarrow$	$\sharp\downarrow\downarrow$	<i>lowers / raises the pitch to diminish the Pythagorean major sixth 27:16 by a 13-limit third-tone to represent the 13:8 median sixth: $27 : 26 = \text{circa } 65.3 \text{ cents (not used in this piece)}$</i>
$\natural\downarrow\downarrow\downarrow$	$\sharp\downarrow\downarrow\downarrow$	<i>lowers / raises the pitch to diminish the 16:15 diatonic semitone by a 17-limit schisma to represent the 17:16 semitone: $256 : 255 = \text{circa } 6.8 \text{ cents}$</i>
$\natural\downarrow\downarrow\downarrow\downarrow$	$\sharp\downarrow\downarrow\downarrow\downarrow$	<i>raises / lowers the pitch to augment the 32:27 Pythagorean minor third by a 19-limit schisma to represent the 19:16 small minor third: $513 : 512 = \text{circa } 3.4 \text{ cents}$</i>
$\natural\downarrow\downarrow\downarrow\downarrow\downarrow$	$\sharp\downarrow\downarrow\downarrow\downarrow\downarrow$	<i>raises / lowers the pitch to augment the Pythagorean tritone 729:512 by the 23-limit comma to represent the 23:16 augmented tritone: $736 : 729 = \text{circa } 16.5 \text{ cents (not used in this piece)}$</i>

These 'Helmholtz-Ellis' accidentals for just intonation were designed in collaboration with Marc Sabat.

The attached arrows for pitch alterations by a syntonic comma are transcriptions of the notation used by Hermann von Helmholtz in his book "Die Lehre von den Tonempfindungen als physiologische Grundlage für die Theorie der Musik" (1863). – The annotated English translation "On the Sensations of Tone as a Physiological Basis for the Theory of Music" (published 1875/1885) was made by Alexander J. Ellis, who refined the definition of pitch within the 12-tone system of Equal Temperament by introducing a division of the octave into 1200 cents. – The accidental sign denoting an alteration by a septimal comma was devised by Giuseppe Tartini (1692-1770), the composer, violinist and researcher who investigated the difference tones created by double-stops.

Pitch-bend information:

In addition to the harmonic definition of a pitch by means of its accidentals, it is also possible to specify its absolute pitch-height as a cents-deviation from the respectively indicated chromatic pitch in the standard 12-tone System of Equal Temperament. – Such additional pitch-bend numbers are only included in the parts for the flute and timpani to facilitate solo rehearsals with the aid of a tuning device. In the ensemble rehearsals, every pitch may be tuned by ear.

Tuning Instructions and Pitch Repertoire

TRUMPETS and ALTO TROMBONE

Trumpet in E-flat

The open horn is tuned with harmonic 5 to harmonic 4 of the double bass G string.
 The 2nd valve slide is tuned with harmonic 4 to harmonic 4 of the double bass D string.
 The 3rd valve slide is tuned with harmonic 3 to harmonic 4 of the double bass G string.
 The 1st valve slide is tuned in combination with valve 2 to harmonic 4 of the G string.

Trumpet in B-flat

The open horn is tuned with harmonic 5 to harmonic 4 of the double bass D string.
 The 2nd valve slide is tuned with harmonic 4 to harmonic 3 of the double bass D string.
 The 3rd valve slide is tuned with harmonic 4 to harmonic 4 of the double bass G string.
 The 1st valve slide is tuned in combination with valve 2 to harmonic 4 of the G string.

Alto Trombone with trill valve

Position I of the open horn ("O") is tuned with harmonic 5 to harmonic 4 of the double bass G string.
 The trill valve slide ("T") is tuned in Position I with harmonic 4 to harmonic 4 of the double bass D string.

Table notated at sounding pitch

Position I

Position I with Trill valve = Position II

Position II with Trill valve = Position III

Position III with Trill valve = Position IV

Position IV with Trill valve = Position V

Position V with Trill valve = Position VI

Position VI with Trill valve = Position VII

Position VII with Trill valve

4 TIMPANI and small TOMTOM

DOUBLE BASS Scordatura

16:15 (112 c) 17:16 (105 c) 18:17 (99 c) 19:18 (94 c) 20:19 (89 c) 21:20 (85 c) 22:21 (81 c)

III II I IV Tomtom

The pedal positions for these pitches should be marked on timpani I, II, and III.

Double Bass Scordatura

The A string and the E string are lowered by an 11-limit quarter-tone (frequency ratio 33/32 or 53 cents). The 3rd string may be tuned by ear as a consonant 11/2 below the double-octave harmonic of the D string by listening to and eliminating the beatings at D-5, and the 4th string may also be tuned by ear as an 11/1 consonance below the tuning reference pitch A = 440 Hz.

FLUTE

Fingering Suggestions

Pitches that are not used in the flute part are notated with a small diamond note head.

E \flat B \flat F \sharp

G \sharp G F \sharp

C \sharp G \sharp D \sharp

C#

●●●/●○○C# ●○○/○○D# ●○○/○○D# ●●●/●○○

-7 -3 -21 -9 -5 -23 -1 -19 -7 -3 -21 -9

(G#) ●●●/○○D# ●○○/○○D# ●○○/○○(C#) ●●●/○○(C#) ●○○/○○(D#) ●●●/○○D#

-5 -23 -1 -19 -7 -3 -21 -36 -9 -5

B

●●●/●●●D# C# ●●●/○○D# ●●●/○○D# ●○○/○○D# ↓

+1 +4 -13 -1 +2 -15 +6 -11 +1 +4 -13 -1

●●●/○○D# ●○○/○○D# ●●●/○○D# ●●●/○○D# ↓ ●○○/○○D#

+2 -15 +6 -31 -11 +1 +4 -13 -29 -1 +2

A

●●●/○○D# ↑ ●●●/○○D# ↑ ●●●/○○D# ↑ ●○○/○○D# ●●●/●●●D# ●○○/○○D# ↑ ●○○/○○C# ●○○/○○C# ●●●/○○B# ●●●/○○D# ●●●/○○B#

+29 +12 +33 +16 +27 +31 +14 +25 +29 +12 +33

●●●/○○D# ↑ ●○○/○○D# ●●●/○○D# ●○○/○○D# ●●●/○○D# ●○○/○○C# ●○○/○○C# ●○○/○○ ●●●/○○D# ●○○/○○D#

+16 +27 +31 +14 +25 +29 +12 +33 +16 +27

A

●●●/○○D# ●○○/○○D# ●●●/○○B# ●●●/○○ ●●●/○○D# ●○○/○○D# ↓ ●○○/○○ ●○○/○○C# ●○○/○○D# ●●●/○○D# ●●●/○○C# ●●●/○○(D#)

-51 -69 -47 -65 -53 -49 -67 -55 -51 -69 -47 -65

●●●/○○D# ●●●/○○D# ●○○/○○D# ↓ ●○○/○○D# ●○○/○○C# ●●●/○○ ●○○/○○D# ●○○/○○D# ●○○/○○C# ●●●/○○ ●●●/○○ ●○○/○○D# *

-53 -49 -67 -82 -55 -51 -69 -47 -84 -65 -53 -49

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ca. 54 *Lento con tempo rubato, piano maestoso, e sempre non vibrato*

Flute

Trumpet 1 in E \flat

Trumpet 2 in B \flat

Alto Trombone

Small Tomtom and 4 Timpani

Double Bass

0 piano

0 \flat 4 1 0 \flat 4 1 0 \flat 1 0 \flat 1 0 \flat 1 0 \flat 4 1 0 \flat 4 0 \flat

Microtonal fingering suggestions for all the notes in the flute part are listed in the preface. All notes in the trumpet parts may be played by simply trying to center the pitch, never lipping any note up or down. All the equidistant trombone slide positions may be found with the help of the trill valve slide, which is precisely tuned as a diatonic semitone (16 : 15 or 112 cents) in the 1st position. The entire trombone part may be played with perfect intonation even in solo rehearsals. The kettle drums should always be struck at the sweet spot, producing a harmonious, classical sound; and the pitch positions should be marked on the pedals of timpani I, II, and III. The double bass part may be played a little bit closer to the bridge than 'ordinario', to get a bright and nasal sound; the contact position of the bow is always defined by the various natural harmonics. Whenever one of the high harmonics is asking for some extra time to speak, the bass player may slow down the tempo as needed, conducting the ensemble. The distance between the 1st and the 4th finger is equal to 1/12 of the overall string length and precisely the same in every position, while the 2nd finger is always placed exactly in the middle between the 1st and the 4th finger. Performance duration : circa 13 minutes

7

5 : 6 (318 c)

15 : 16 (112 c)

1

16 : 15 (112 c)

-2 +2 +14 +12 +14 -4 -6 -16

più sonore

O T

piano

più sonore

ord. al pont. ... ord.

0 \flat 4 0 \flat 0 \flat 0 \flat 0 \flat 2 0 \flat 2 0 \flat 0 \flat 2 0 \flat 2 0 \flat

più sonore

13

più sonore

III *The eight recurring pedal positions* II II 182 c down Notes with accents are just a little bit louder than the others.

+10 should be marked on Timpani I, II, & III (-6) +12 (*più piano*)*

* The first stroke on a retuned drum is always on a soft beat, to check the tuning.

-2 1 ↓ °4 °1 1 ↓ °4 °1- 4 °4 1- °4 °1 1 °4

19

10:9 (182 c) 21:20 (85 c)

T O T O O t O T O

II I

(+12) +27

al pont. ... *ord.*

°1- 4 4 °4 1 °1 ↓ °4 °1- °4 °4 °2 2 °2 2 °4 2 °2

25

7:6 (267 c) *poco ritenuto*

flutter tongue

-2 -4 +29 *sfz e molto sonore* *marcato*

T O T

marcato

I 81 c down

-53 *marcato*

al pont. ... *ord.*

2 °4 °1- °2- 1- 0 1- °4 1- °2- ↑ °4 °1 *marcato*

2 ♩ ca. 54 *a tempo*

31

-51 -4 +10
piano *più sonore*
 ○○○ + ○○○
pianissimo
pianissimo
 T O O T O
piano *più sonore* *pianissimo*
piano *più sonore* *pianissimo*
pizz. 0 (lv) arco al pont. ... ord.
piano 0¹- 0⁴-₀₁ 0² 2 0² 2 0² 2 2 0² 2 0¹- 2 0
piano *più sonore* *pianissimo*

33 : 32
(53 c)

32 : 25
(427 c)

37

+2 +2 -51 -47 -65 -51 -53 +2 -4 +10 -18
più sonore *forte* *piano*
 ○○○ + ○○○
più sonore *piano*
più sonore *piano*
 T O T O T O O
più sonore *piano*
più sonore *piano*
 II 182 c up
 1 0¹- 0 0¹ 0⁴ 0⁴ 0¹ 1 0⁴ 4 0⁴ 4 0⁴
più sonore *piano*

43

6:7 (267 c) 7:8 (231 c)

43

6:7 (267 c) 7:8 (231 c)

T O T O T O T O T

II II 182 c down I 81 c up I

(-6) +12 +27

4 04 01 04 1 04 02 2 04 2 02 2 02 04

più sonore

49

20:21 (85 c)

poco ritenuto

49

20:21 (85 c)

poco ritenuto

più sonore *molto sonore*

più sonore *molto sonore*

più sonore *molto sonore*

O T O T O T O T O T

III 112 c down

più sonore *molto sonore*

al pont. *ord.* *ord.*

2 01 02 2 01 2 04 01 01 1 01 1 01 1 01 1 01

molto sonore

3 ♩ ca. 54 *a tempo*

55

III 112 c up III 112 c down

piano

arco *al pont.* ... *ord.* *ord.* 17/8

pizz. 0 (lv)

piano

T O T O T O T O

↑°1 °2 2 °1- 2 °4 -°1- °1 1 °1 1 °1 ↓°4 °1- 2-

19:16 (298 c)

III 105 c down II 182 c up II 94 c down

più sonore

più sonore

più sonore

OtOtO *più sonore*

17/6 19/8 19/3

°4 2 °1- 2 °1- 1 °4 1 °1- 1 ↓°4 °1- °4 2 °1- 2 °4

65

+4 +16 +14 +12 -4 -17 -2 3 +29 +14 3 +16 +14
 ... + ...
 ... + ...
 T O T O T O T O T O
 (178 c)
 II 89 c down +12 I (+27)
 al pont. ... ord. al pont.
 2 -04 01 04 1 01 1 04 1 04 02 2 04 2 02 2 04 01 02

poco ritenuto

70

-2 -53 -4 -16 3 -33 +2 +47
 espr. più sonore marc.
 più sonore più sonore più sonore più sonore
 T O T O T O T O
 I 81 c down -53 più sonore marc.
 1 -02 -1 2 -1 02 0 04 04 4 -02 0 marc. 0 1

4 ♩ ca. 54 *a tempo*

22:21
(81 c)

75 ♩ $\text{♯} / \text{♯} \text{D} \text{♯}$

piano *più sonore* *piano*

(T) O T O T O T O T O

piano *più sonore*

I 81 c up

piano *più sonore*

arco *al pont.* *... ord.* *al pont.* *... ord.* *al pont.*

pizz. (l.v.)

piano *più sonore*

♩ ca. 60 *poco più mosso*

81 ♩ $\text{♯} / \text{♯} \text{D} \text{♯}$

più sonore *piano* *espr.*

T O T O T O

piano *espr.*

I 81 c down

piano

piano *sonjore* *marc.*

87 ♩ $\text{♯} / \text{♯} \text{D} \text{♯}$

più sonore *espr.*

marc. *al pont.*

più sonore

93 flutter tongue

forte *piano* *espr.*

T O T T O T O

piano *espr.*

piano

1 0 1 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 1

98

5

piano *più sonore* *piano*

piano *più sonore* *piano*

piano *più sonore* *piano*

più sonore

al pont.

1 *più sonore*

1 0 4 4 0 4 0 2 2 0 4 0 4 0 1 1 0 4 0 2 1

103

poco accelerando

-1 0 4 0 2 0 2 4

6 ca. 66 *ancora poco più mosso*

109 $\circ \bullet \bullet / \bullet \bullet \bullet D\sharp$ $\circ \bullet \bullet / \bullet \bullet \bullet B\sharp$ $\circ \bullet \bullet / \bullet \bullet \bullet C\sharp$

piano *poco più sonore* *poco più sonore*

piano *poco più sonore* *poco più sonore*

piano *poco più sonore* *poco più sonore*

I 81 *c up* II 182 *c up* III 217 *c up*

pizz. *arco* *al pont.* *ord.* *al pont.*

piano *poco più sonore* *poco più sonore*

115

più sonore *piano* *espr.* *marcato* *espr.*

più sonore *piano* *marcato* *espr.* *marcato*

più sonore *piano* *più sonore* *marcato*

III 112 *c down*

ord. *marcato*

17:20 10:9
(281 c) (182 c)

9:10
(182 c)

19:15
(409 c)

121

poco più sonore

poco più sonore

poco più sonore

poco più sonore

poco più sonore

III 105 c down

II 94 c down

poco più sonore

poco più sonore

poco più sonore

2 °4 2 °1 2 °1 ↓°4 °4 4 °4 4 °4 °4 °4 2 °4 2 °4

poco ritenuto

127

crescendo

crescendo

crescendo

crescendo

crescendo

II 89 c down

crescendo

crescendo

crescendo

°1 2 °4 2 °1 ↓°4 °2 4 °2 4 4 °4 °2 2-

al pont.

ord.

7 ♩ ca. 66 *a tempo*

49:48
(36 c)

21:20
(85 c)

28:27
(63 c)

○●●/○●●D# ○●●/○●●D#

133

piano *sonore*

piano *sonore*

piano *sonore*

(T) *piano* *sonore* *espr.*

piano *sonore*

al pont. *ord.* *al pont.*

piano *sonore*

poco ritenuto

139

crescendo *flutter tongue*

crescendo *flutter tongue* *mettere sordino*

crescendo *flutter tongue* *mettere sordino*

crescendo *flutter tongue* *mettere sordino*

crescendo

ord.

crescendo

8 ♩ ca. 72 *andante - avanti*

145 $\bullet\bullet\bullet/\bullet\bullet\bullet\text{D}\sharp$

piano espr.

pianissimo *piano*

arco *al pont.* *ord.* *al pont.*

pizz. *(l.v.)*

piano *pianissimo* *piano espr.*

151

sonore

con sordino (metal) *pianissimo* *piano*

con sordino (metal) *pianissimo* *piano*

ord. *al pont.* *ord.*

157 *poco ritenuto*

piano *sonore*

con sordino (metal) *piano espr.* *sonore*

sonore *sonore*

al pont. *ord.*

sonore

9 ca. 72 *a tempo - avanti*

147:132
(186 c)

163

sempre con sord. $\circ\circ + \circ\circ + \circ\circ + \circ\circ$

piano *crescendo* *sfz* *flutter tongue*

sempre con sord. $\circ\circ + \circ\circ + \circ\circ$

piano *crescendo* *sfz* *flutter tongue*

sempre con sord. T O T O T O T O T O T O

piano *crescendo* *Split tone, with harmonics 3+4*

III 105 c up

piano *crescendo*

arco *pizz.* *(lv)*

piano *crescendo*

168

sf *più piano* *crescendo*

$\circ\circ + \circ\circ$

sf *più piano* *crescendo*

$\circ\circ + \circ\circ$

sf *più piano* *crescendo*

T O T O T O T O T O

III 105 c down

marcato *più piano* *crescendo*

più piano *crescendo*

10 ca. 72 *a tempo - avanti*

183

sf *piano* *crescendo* *flutter tongue*

sf *piano* *crescendo* *sfz* *flutter tongue*

sf *piano* *crescendo* *sfz* *flutter tongue*

sf *piano* *crescendo* *flutter tongue*

piano *crescendo*

sf *piano* *crescendo* *19/4 below trb.* *molto sonore*

188

più piano *crescendo*

sf *più piano* *crescendo*

sf *più piano* *crescendo*

marcato *piano* *crescendo*

più piano *crescendo*

193

flutter tongue

-2 -51 -84 +14 +27 -4 +31 +16 +14 +29

sf > *più piano* *crescendo*

sfz *flutter tongue* *sf* > *più piano* *crescendo*

sfz *flutter tongue* *sf* > *più piano* *crescendo*

flutter tongue *sf* > *più piano* *crescendo*

I 81 c up *piano* *marcato* +27 *piano* *crescendo*

al pont. *ord.* *al pont.* *ord.* *al pont.*

molto sonore *più piano* *crescendo*

poco ritenuto

198

flutter tongue

-4 +10 +14 +31 -2 -6 +31 -51 -84 -49 +16 +31

forte

sfz *flutter tongue* *forte*

sfz *flutter tongue* *forte*

flutter tongue *forte*

I 81 c down *forte*

al pont. *ord.* *al pont.* *7/1 below trb.* *11/2 below trb.* *al pont.* *ord.*

molto sonore *forte*

203

meno forte *e poco a poco diminuendo*

meno forte *e poco a poco diminuendo* *sf* *sf*

meno forte *e poco a poco diminuendo*

meno forte *e poco a poco diminuendo*

meno forte *e poco a poco diminuendo*

arco
pizz. (l.v.)

meno forte *e poco a poco diminuendo*

II 182 c up II 94 c down

T o T o T

209

espr. *espr.* *sf* *sf*

espr. *sf*

espr.

II 89 c down

215

-2 +18 +14 +12 +16 -4 -16 -14 +2 +51 +14 +16 +31

sf

III 217 c up +10 III 112 c down -2 I 81 c up +27

al pont. *ord.*

2 -°1- 2- -°1- -2 -°1- 2 1 2 °1- 2 ↓°4 °1 ↓°4 °1 ↓°4 °2 2 °4

... *ca.* 63

... *e poco ritenuto*

221

-2 +33 -4 +4 -29 -4 -20 -18 -6 +3

espr. *piano*

espr. *sf* *piano* *sf*

sf *espr.* *piano* *piano*

O T T O O T O T

II 89 c up +1 II 94 c up -6

al pont. *ord.*

2 ↑°1 °4 2 °4 2 ↑°1 1 °1- °4 °1 °1- 4

piano

ca. 63 ... e poco a poco ritardando ... fino al tempo ca. 54

227

quasi forte e poco a poco diminuendo

quasi forte e poco a poco diminuendo

quasi forte e poco a poco diminuendo

quasi forte e poco a poco diminuendo

quasi forte e poco a poco diminuendo

III 105 c down II 182 c down II 182 c up

quasi forte e poco a poco diminuendo

quasi forte e poco a poco diminuendo

233

sf sf sf

II 182 c down II 89 c up

al pont. ord.

quasi forte e poco a poco diminuendo

239

Violin I: +4, -4, +14, +10, +12, -2, -3, -29, -7, -5, +2, -29, +4

Violin II: sf

Viola: sf

Cello/Double Bass: O, T, O, T, O, T, O, T, O, T, O, T

Piano: II 89 c down (+12), (-7), II 89 c up (+1)

Piano: -2, °1-, 2-, 0, °4, 1-, -°4, -1, 0, ↑°4, 2-, °1-, 2-, -°1, 2, °4, 2, ↓°4, 2-, -°4

... ♩ ca. 54 *tempo primo, e molto ritenuto*

245

Violin I: -2, +12, +16, -17, -51, -4, -16

Violin II: sf, molto piano, pianissimo

Viola: sf, molto piano, pianissimo

Cello/Double Bass: O, T, O, T, O, T, O, T, O, T, O, T

Piano: II 89 c down (+12), I 81 c down (-53), molto piano, pianissimo

Piano: al pont., ord. -2, °1-, 2, 0, ↓°4, °2-, 4, -°2, 1, ↑°1-, 0, °4, °1, °1-, 0