

Sound Constellations for the Youth

for solo piano

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2 **Performing Notes:**

Duration: 7'16"

The *scientific pitch notation* has been used for indicating the registers of the instruments where it begins from A0 goes up to C8. More information can be found here: https://en.wikipedia.org/wiki/Scientific_pitch_notation

First Movement's preparations:

Each note between **C#3-G#5** has either metal screw or wood clothes pegs preparation. Best is to combine them both so that some strings get wood and others metal preparations. They have to be placed between two same sounding strings so that the third one should sound more or less unaffected. However the pitches B3, C#4, D4, D#4, E4, F#4, G4, G#4, A#4, C5, D5 should be prepared definitely with wood clothes pegs in order to be able to perform the wood clothes pegs pizzicato. **A5 and upwards** should be prepared with **patafix** so that pitches sound dampened, however the pitch quality must be perceivable.

First Movement's Playing Techniques:

inside the piano: the action should be performed inside the piano
on the keyboard: the action should be performed on the keyboard

inside the piano

*plectrum-
Brutally, but slowly and equally*

8^{vb}

mf *f*

Plectrum Gliss: a glissando should be performed with a plectrum inside the piano by plucking the given strings towards the given direction.

fast vertical gliss

ff

Red.

Fast Vertical Gliss: a glissando should be performed with a plectrum inside the piano vertically from the dampers towards the bridge of the piano as fast as possible. A "jet" like sound is produced.

profondamente

vertical plectrum granulation

Vertical Plectrum Granulation: It is extremely slower version of Vertical glissando. It also should be performed with a plectrum inside the piano vertically but this time towards the dampers' direction so slowly that it sounds like granulation.

*arcanelly
wood peg pizz*

Red.

Wood Peg Pizzicato: a wood peg which is located between the two of three pairs of strings of the given pitch is plucked with a finger as a pizzicato so that it should sound like kind of vibrato.

Second Movement's Playing Techniques:

inside the piano

play with bike tube

pp *ff*

Rubing Bike's inner Tube: a well rosined piece of bikes inner tube of proper size should be rubbed on the given strings.

*play with superball - - - - -
with alternating pressure and speed*

8^{vb}

ppp

Rubing Superball on Strings: a middle size superball is rubbed on the given string causing strange multiphonics-like sounds.

*pull the tied cassette band
pulsating irregularly - -*

pp

Tied Cassette Band: tie rosined cassette bands to the given strings prior to performance from different locations of the strings. Pull them so that either a pizzicato-like sound or irregular pulsating noise should sound according to passage in the score.

Third Movement's Preparations:

- Locate the given objects on the strings between the given pitch areas:
- A0-A1: A4-Book
 - Bb1-Bb2: A4-plastic cover
 - B2-B3: 2 pieces of metal backed iphone (5, 5s)
 - C4-C5: 2 pieces of bottle
 - C#6- upwards: patafix

Fourth Movement's Playing Techniques:

[6+11+5]

plect

109

*touch the node
at %18,8*

15^{mb}

8^{vb}

mf

Red.

Multiphonics: The right hand finger touches the node which lies at the given percent of the string, then lifts after playing the given pitch in the left hand so that overtones occurs which are given in paranthesis. This technique should be performed like a guitar harmonic playing technique.

How to play multiphonics:

- 1) A light and small object (a node-obstacle) such as a plectrum is put on a mono- chord string, to rest on a slot of the copper winding. (kept in the right hand)
- 2) The corresponding key is hit quite loudly and held pressed. (left hand)
- 3) The plectrum is soon released upwards away from the string (right hand)
- 4) The key is released at latest after the sound has faded completely, or earlier (left hand). Also, the pedal can used, in which case the decay can be regulated more.

More information:

http://ethesis.siba.fi/files/vesikkala_thesis_2016_fulltext.pdf

inside the piano

buzz pizz.

3

3

ff

15^{vb}

Red.

Buzz Pizz.: Pluck the B0 string with the finger or plectrum and press the neighbouring string C1 towards the B0 so that buzzing sound occurs.

pluck behind the bridge

5

5

Pluck Behind the Bridge: pluck the strings behind the bridge. Pitch is uncertain.

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♩ = 76 *agilmente*

0" **on the keyboard**
metal, wood preparations

mp 6 *f*

I *patafix preparations*

p 5 5 5 5 5

accel.

inside the piano
plectrum
Brutally, but slowly and equally

ff *ff*

8^{va} *mf* *f*

6" **A tempo**

4 *f* *profondamente*

ff *p*

vertical plectrum granulation

8^{va} *mf* *f*

stringendo poco a poco
metal, wood preparations

mp 7 7 6 6

mf *f*

16"

7 *mf* 7 7 7 7

patafix, metal, wood preparations

fast vertical gliss

arcanelly wood peg pizz

plectrum

8^{va} *mf* *ff*

21"

9 *ff* *tr* *rit.*

wood peg pizz

wood peg pizz

p

8^{va} *mf* *ff*

39" *morendo*

A tempo agilmente
various preparations ----->

14

ppp

p

on the keyboard *various preparations ----->*

p

53"

stringendo poco a poco

17

mp

p

f

mp

p

59"

19

p

mp

f

pp

mp

1'06"

rit.

21

mp

ff

mp

p

1'12"

morendo

A tempo agilmente

23

>p

ppp

mp

ppp

inside the piano *sorprendente*

plectrum -----

p

mp

p

II

♩ = 116 *insistendo*

1'37" inside the piano

29 *play with bike tube* ----->

pp ff pp ff pp ff pp ff

inside the piano pull the tied cassette band pulsating irregularly

Ped. pp Ped.

1'48"

pp ff pp ff pp ppp

play with bike tube bizzarramente *play with superball with alternating pressure and speed*

ppp 8^{va} ppp p Ped.

1'58"

pp mf pp ppp p p

pull the tied cassette band *play with bike tube*

pp p pp p pp p ppp p mf Ped.

2'12"

mp p ff p ppp

p ff p ppp

p ff p ppp Ped.

2'19"

f ppp ff pp ff pp ff

insistendo

f ppp ff pp Ped. 1/2 pp

2'27"

6 53

pull the tied cassette band

pull the tied cassette band

pull the tied cassette band

pp *ff* *pp* *ff* *pp* *ff* *pp* *pp*

pp *pp* *Led* *Led 1/2* *Led* *Led* *pp*

2'37"

58

pp *mf* *mp*

f *p* *Led*

2'41"

60

fff *PPP* play with superball

fff *PPP* *p*

15 *mb*

2'48"

63

play with bike tube

PPP play with bike tube

p

pp *mp* *PPP* *PPP* *mf*

pp *mp* *PPP* *PPP* *mf*

2'58"

68

mp *p* *ff* *p* *PPP*

p *ff* *p* *PPP*

rit.

III

3'10" ♩ = 60 *Maestoso*

dampened strings by metal, book, bottle, plastic A4 cover

72 on the keyboard

Musical score for measures 72-77. The score is in bass clef with a 4/4 time signature. It features two staves. The upper staff has dynamic markings of *ppp*, *pp*, *p*, *pp*, *mp*, and *ppp*. The lower staff has dynamic markings of *ppp*, *p*, *pp*, *mp*, and *ppp*. Pedal markings (Ped.) are present under the lower staff. Trills (tr) are indicated above several notes. A fermata is placed over the final measure.

Preparations:

A0-A1: A4-Book

Bb1-Bb2: A4-plastic cover

B2-B3: 2 pieces of metal backed iphone (5, 5s)

C4-C5: 2 pieces of bottle

C#6- upwards: patafix

3'38"

Musical score for measures 79-84. The score is in bass clef with a 4/4 time signature. It features two staves. The upper staff has dynamic markings of *mf*, *ppp*, *mp*, *f*, and *mf*. The lower staff has dynamic markings of *mf*, *ppp*, *p*, *f*, and *mf*. Pedal markings (Ped.) are present under the lower staff. Trills (tr) are indicated above several notes. A fermata is placed over the final measure.

4'06"

Musical score for measures 85-86. The score is in treble clef with a 4/4 time signature. It features two staves. The upper staff has dynamic markings of *fff*, *pp*, *p*, *mf*, *mp*, and *f*. The lower staff has dynamic markings of *fff*, *p*, *mf*, and *f*. Pedal markings (Ped.) are present under the lower staff. Trills (tr) are indicated above several notes. A fermata is placed over the final measure.

4'14" *bizzarramente*

Musical score for measures 87-90. The score is in treble clef with a 4/4 time signature. It features two staves. The upper staff has dynamic markings of *ppp*, *pp*, *p*, and *mf*. The lower staff has dynamic markings of *ppp* and *mf*. Pedal markings (Ped.) are present under the lower staff. Trills (tr) are indicated above several notes. A fermata is placed over the final measure.

4'26" *aggressivamente*

8 90

ff

ff

4'36" *Maestoso*

93

ppp

ppp
Ped.

4'52" *leggiero*

96

pp

p

mp

mf *pp*

pp

p

mp

mf

pp

p

mf

mp

Ped.

Ped.

Ped.

Ped.

5'07" *stringendo poco a poco*

100

f

mp

mf

mf

f

5'13" *Maestoso*

102

fff

ppp

pp

p

mp

mf

ppp

pp

p

mp

p

pp

Ped.

Ped.

Ped.

Ped.

Ped.

IV

♩ = 72 ritmico e risonante

resulting harmonics:

[9+13+4]

5'39" inside the piano

108 *granulation: scratch the string vertically with plectrum*

[6+11+5] *plectrum*

[9+13+4] *plectrum*

touch the node at %18,8

touch the node at %23,1

touch the node with the right hand at %23,1 of the string while playing C1 on the keyboard

mp *mf* *f*

15^{mb} *15^{mb}* *15^{mb}*

1/2 *1/2* *1/2*

5'46" [10+13+3]

111 *plectrum*

[9+13+4] *plectrum* *rit.*

touch the node at %30,8

touch the node at %23,1

ppp

mf *mp*

15^{mb} *15^{mb}*

1/2 *1/2*

5'58" **A tempo**

114 *inside the piano* *buzz pizz.**

pp *mf*

[10+13+3] *plectrum*

touch the node at %30,8

buzz pizz. pp

ff *pp*

15^{mb} *15^{mb}*

1/2 *1/2*

* Pluck the B0 string with the finger or plectrum and press the neighbouring string C1 towards the B0 so that buzzing sound occurs.

For the instrument's registers the scientific pitch notation has been used

6'10"

118 *plectrum*

mf *p*

15^{mb} *15^{mb}*

1/2 *1/2*

6'20"

10¹²¹

f

p

ff

ff

6

8^{vb}

15^{mb}

plectrum

3 3 3 3 3 3 3 3 3 3 3 3

6'35"

125

pp

mp

mf

f

pp

f

mf

f

8^{vb}

5

5

plectrum

pluck behind the bridge

1/2

6'48"

129

mf

p

mf

p

5 5 5 5 5 5 5 5

6 6 6 6 6 6

pluck after the tuning pins

fast vertical gliss

8^{vb}

8^{vb}

1/2

7'00"

133

rit.

rit.

rit.

inside the piano

plectrum

plectrum

plectrum

on the keyboard

touch the node at %23,1

touch the node at %18,8

touch the node at %23,1

3 3

[9+13+4]

[6+11+5]

[9+13+4]

8^{vb}

15^{mb}

15^{mb}

15^{mb}

5 5 5

5 3

1/2

1/2

1/2

1/2

7'16"