

Geysir

for seven pianists and electronics

Christopher Luna-Mega (2016/2019)

This piece is a study of the acoustic properties of an Icelandic geyser recorded 180 miles East of Reykjavik in the valley of Haukadalur. Its complex harmonies, dynamics and rhythms shift perpetually and in subtle ways. If listened to as a background, the sound may appear to be static. With a focused listening, musical shapes emerge from the sound mass. With the intention of musically assimilating into the sonic characteristics of the geyser, the score for seven pianists and electronics translates its harmonic, dynamic and rhythmic activity, from the lowest to highest register of the piano. Each pianist focuses on an octave and is projected through a speaker, which results in a diffused sound around the audience. The electronics present the geyser in its original form, divided into seven tracks, one track per octave, in order to be fused with the pianos and spatialized around the hall.

Performance notes

Time

The piece must be performed with a stopwatch. Each bar is 4 seconds long and always includes a time cue:

A musical staff in bass clef showing a sequence of notes: a quarter note with a wavy symbol (irregular rhythm), a quarter note, an eighth note with a diamond symbol (medium presence), an eighth note with a diamond symbol, a quarter note with a flat, an eighth note with a diamond symbol, an eighth note with a diamond symbol, and a quarter note with an 'x' symbol (low presence). The staff is divided into four segments. The first segment is boxed and labeled '0:00' and 'pp'. The second segment is labeled 'p'. The third segment is labeled 'mp'. The fourth segment is labeled 'p'. A '0:04' time cue is placed above the second and third segments.

Pitch (categories of predominance)







A musical staff in treble clef showing a sequence of notes: a quarter note with a diamond symbol, an eighth note with a diamond symbol, an eighth note with a diamond symbol, a quarter note with a flat, an eighth note with a diamond symbol, an eighth note with a diamond symbol, and a quarter note with an 'x' symbol.

Until a new box or silence suggest a change, perform the pitches from the box considering the following categories:

- High presence
- ◇ Medium presence
- × Low presence

Rhythm (categories of saturation)

Each boxed pitch material should always be performed using either of the following rhythmic categories. The symbol \sphericalangle , indicates all rhythms performed must be irregular, never repeating pulses or rhythms):

	not more than one note per two seconds		not more than four notes per second
	not more than one note per second		not more than eight notes per second
	not more than two notes per second		as many notes as possible per second

Technical requirements

There are several options for performance of this piece, considering the availability of resources in the performance space. The options range from an abundant resource scenario to a simple setup. The following is the setup used for the premier of the piece in Old Cabell Hall, at the University of Virginia, in October 2016.

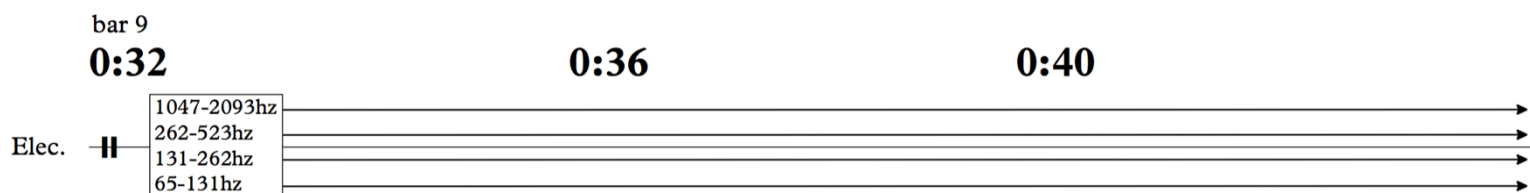
- 1 piano on stage; 3 pianos outside the concert hall, in practice rooms (sound proof) and telematically amplified in the hall.
- 7 microphones (assortment of cardioid condenser microphones, among them AKG 414 or similar)
- XLR cables
- Stage snake (minimum 8-channel input)
- 7 microphone stands
- 7 loudspeakers (placed surrounding the audience)
- Mixing board
- Laptop with a Digital Audio Workstation (Logic, Reaper, etc.)

Electronics

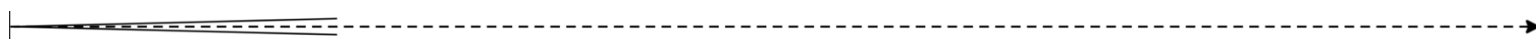
The electronics of the piece are seven tracks with seven frequency strata of the field recording of the geyser from which the piano parts are derived. Each track corresponds to the frequency range of each of the piano parts. The tracks are the following:

2093-4186hz
1047-2093hz
523-1047hz
262-523hz
131-262hz
65-131hz
20-65hz

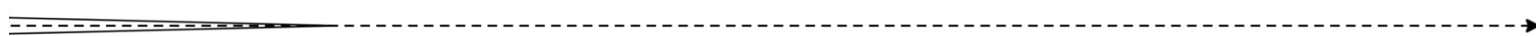
The electronic performer follows the score at the mixer board, fading the seven tracks in and out and balancing their dynamics with those of the pianists. The dynamics of the geyser sounds and the live performers must always be balanced. The main notations are the following:



Sounding frequency band tracks throughout until otherwise notated



Crescendo throughout the dotted arrow



Diminuendo throughout the dotted arrow until track fade out

*The electronic tracks will be provided for performance upon request.

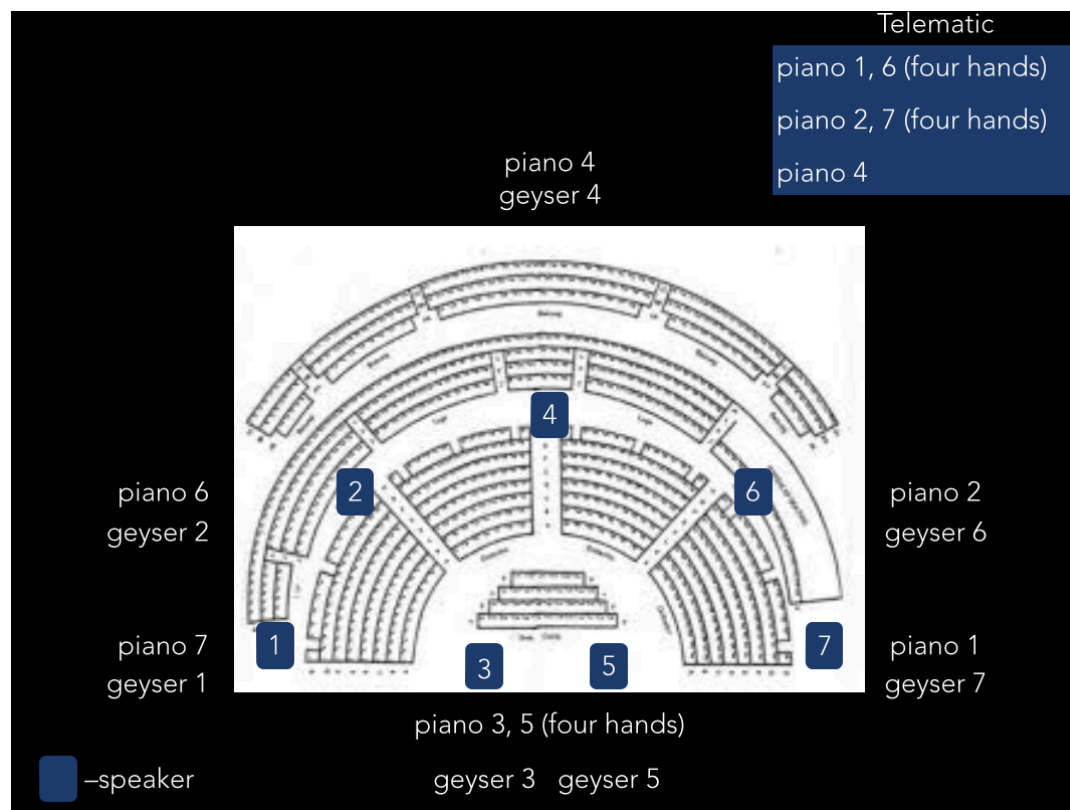
Setup

- Three of the four pianos are played four hands. The distribution of the parts are the following:

Piano parts 1 and 6	Offstage piano 1
Piano parts 2 and 7	Offstage piano 2
Piano part 4	Offstage piano 3
Piano parts 3 and 5	Stage piano

- Microphones must be as close to the strings as possible, in order to pick the minimum amount of sound from the pianist at the opposite end
- Routing of Piano parts and Electronics to loudspeakers (see diagram below):

Geyser 1 (track 1 of the electronics) / Piano 7	Speaker 1
Geyser 2 / Piano 6	Speaker 2
Geyser 3 / Piano 5	Speaker 3
Geyser 4 / Piano 4	Speaker 4
Geyser 5 / Piano 3	Speaker 5
Geyser 6 / Piano 2	Speaker 6
Geyser 7 / Piano 1	Speaker 7



Geysir

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Christopher Luna-Mega (2016)

0:00 0:04

Piano 7

Electronics

Geysir frequency bands

2093-4186hz	→
1047-2093hz	→
523-1047hz	→
262-523hz	→
131-262hz	→
65-131hz	→
20-65hz	→

bar 3

0:08 0:12 0:16

Pno. 7

Elec.

1047-2093hz	→
262-523hz	→
131-262hz	→

bar 6

0:20 0:24 0:28

Pno. 7

Elec.

1047-2093hz	→
262-523hz	→
131-262hz	→
65-131hz	→

bar 9

0:32

0:36

0:40

Elec.



bar 12

0:44

0:48

0:52



Pno. 1

Elec.



bar 15

0:56

1:00



1:04

Pno. 1

Elec.



bar 18

1:08

1:12

1:16

Pno. 7

Pno. 1

Elec.

bar 21

1:20

1:24

1:28

Pno. 7

Pno. 2

Pno. 1

Elec.

1047-2093hz
20-65hz

p *pp* *ppp*

bar 24

1:32

1:36

1:40

Pno. 7

Pno. 2

Pno. 1

Elec.

1047-2093hz
65-131hz
20-65hz

p *mp* *p* *pp* *mp* *ppp* *pp*

bar 27

1:44

1:48

1:52

Pno. 2

Pno. 1

Elec.

65-131hz
20-65hz

ppp *pp* *p* *pp*

4 bar 30 **1:56** **2:00** **2:04**

Pno. 7

Pno. 2

Pno. 1

Elec.

65-131hz
20-65hz

p *ppp* *pp* *mf* *p* *pp* *mp* *pp* *mp* *pp* *mf*

bar 33 **2:08** **2:12** **2:16**

Pno. 3

Pno. 2

Pno. 1

Elec.

131-262hz
65-131hz
20-65hz

mp *p* *mp* *mp* *pp* *mp*

bar 36 **2:20** **2:24** **2:28**

Pno. 3

Pno. 2

Pno. 1

Elec.

131-262hz
65-131hz
20-65hz

p *f* *ppp mp* *pp*

bar 39
2:32 2:36 2:40 2:44

Pno. 3

Pno. 2

Pno. 1

Elec.

131-262hz
65-131hz
20-65hz



bar 43
2:48 2:52 2:56 3:00

Pno. 4

Pno. 3

Pno. 2

Pno. 1

Elec.

262-523hz
131-262hz
65-131hz
20-65hz

bar 47

3:04

3:08

3:12

3:16

Pno. 4 *mp* *ppp* *crescendo*

Pno. 3 *p* *ppp*

Pno. 2 *ppp*

Pno. 1 *pp* *ppp* *pp* *ppp*

Elec.

262-523hz
131-262hz
65-131hz
20-65hz



bar 51

3:20

3:24

3:28

Pno. 5 *ppp* *pp* *ppp*

Pno. 4 *p* *mf*

Pno. 3 *p* *pp* *mp*

Pno. 2 *mp*

Pno. 1 *pp* *ppp* *p*

Elec.

262-523hz
131-262hz
65-131hz
20-65hz

bar 54

3:32

3:36

3:40

7

Piano score for bars 54-56. The score includes five piano parts (Pno. 1-5) and an electric guitar part (Elec.).

Piano 5 (Pno. 5): *mf* (3:32-3:36), *mp* (3:36-3:40), *pp* (3:40-3:44), *p* (3:44-3:48). Includes a wavy hairpin and a tremolo effect.

Piano 4 (Pno. 4): *pp* (3:32-3:36), *pp* (3:36-3:40), *mp* (3:40-3:48). Includes a wavy hairpin.

Piano 3 (Pno. 3): *pp* (3:36-3:48). Includes a wavy hairpin.

Piano 2 (Pno. 2): *pp* (3:32-3:48). Includes a wavy hairpin.

Piano 1 (Pno. 1): *ppp* (3:32-3:36), *p* (3:36-3:40), *ppp* (3:40-3:44), *p* (3:44-3:48), *ppp* (3:48-3:52), *p* (3:52-3:56). Includes a wavy hairpin.

Electric Guitar (Elec.): Frequency filters: 523-1047hz, 262-523hz, 131-262hz, 65-131hz, 20-65hz.

bar 57

3:44

3:48

3:52

3:56

Piano score for bars 57-60. The score includes six piano parts (Pno. 1-6) and an electric guitar part (Elec.).

Piano 6 (Pno. 6): *mp* (3:44-3:48), *mp* (3:52-3:56). Includes a wavy hairpin.

Piano 5 (Pno. 5): *f* (3:44-3:48), *mp* (3:52-3:56), *p* (3:56-4:00), *f* (4:00-4:04), *mp* (4:04-4:08). Includes a wavy hairpin.

Piano 4 (Pno. 4): *mf* (3:44-3:48), *p* (3:48-3:52), *mf* (3:56-4:00). Includes a wavy hairpin.

Piano 2 (Pno. 2): *p* (3:44-3:48), *mp* (3:52-3:56), *pp* (3:56-4:00). Includes a wavy hairpin.

Piano 1 (Pno. 1): *mp* (3:44-3:48), *mp* (3:48-3:52), *ppp* (3:52-3:56), *pp* (3:56-4:00), *mp* (4:00-4:04), *ppp* (4:04-4:08), *mp* (4:08-4:12), *ppp* (4:12-4:16), *p* (4:16-4:20), *ppp* (4:20-4:24). Includes a wavy hairpin.

Electric Guitar (Elec.): Frequency filters: 523-1047hz, 262-523hz, 131-262hz, 65-131hz, 20-65hz.

bar 61

4:00

4:04

4:08

Pno. 7

Musical staff for Pno. 7. It features a treble clef and a whole rest. A dynamic marking of *p* is placed below the staff. Above the staff, there are musical notations: a sharp sign, a note with a flat, and a note with a sharp, followed by a horizontal line.

Pno. 6

Musical staff for Pno. 6. It features a treble clef and contains several notes with accidentals (sharps and flats) and a dynamic marking of *diminuendo* with a dashed line underneath.

Pno. 5

Musical staff for Pno. 5. It features a treble clef and contains a series of dynamic markings: *pp*, *ff*, *mp*, *p*, *pp*, *f*, and *p*.

Pno. 4

Musical staff for Pno. 4. It features a treble clef and contains a dynamic marking of *f*, followed by a note with a sharp and a dynamic marking of *mp*, and then *p* and *pp*.

Pno. 3

Musical staff for Pno. 3. It features a bass clef and contains a note with a sharp and a dynamic marking of *p*, followed by *pp*.

Pno. 2

Musical staff for Pno. 2. It features a bass clef and contains a dynamic marking of *mp*.

Pno. 1

Musical staff for Pno. 1. It features a bass clef and contains a note with a sharp and a dynamic marking of *p*, followed by notes with sharps and flats.

Elec.

Electronic frequency bands represented by five horizontal lines with arrows pointing right. A box on the left lists the frequency ranges: 523-1047hz, 262-523hz, 131-262hz, 65-131hz, and 20-65hz.

bar 64

4:12

4:16

4:20

4:24

Pno. 7

Musical staff for Pno. 7, treble clef. The staff is mostly empty with a thick black line across it. A dynamic marking *pp* is located at the end of the staff.

Pno. 6

Musical staff for Pno. 6, treble clef. It contains a few notes with accidentals and a wavy hairpin. A dashed line is drawn below the staff, and a dynamic marking *ppp* is at the end.

Pno. 5

Musical staff for Pno. 5, treble clef. It contains several notes with accidentals and a wavy hairpin. Dynamic markings *ppp*, *pp*, *p*, and *ppp* are placed below the staff.

Pno. 4

Musical staff for Pno. 4, treble clef. It contains several notes with accidentals and a wavy hairpin. Dynamic markings *ppp*, *pp*, and *ppp* are placed below the staff.

Pno. 3

Musical staff for Pno. 3, bass clef. It contains several notes with accidentals and a wavy hairpin. Dynamic markings *ppp*, *pp*, *ppp*, and *pp* are placed below the staff.

Pno. 1

Musical staff for Pno. 1, bass clef. It contains a few notes with accidentals and a wavy hairpin. Dynamic markings *pp* and *ppp* are placed below the staff.

Elec.

Electronics section with a list of frequency ranges and corresponding horizontal lines with arrows pointing right:

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz

bar 68

4:28

4:32 4:36

4:40

4:44

Piano parts (Pno. 1-6) and Electric guitar (Elec.) staff. Includes frequency range list: 2093-4186hz, 1047-2093hz, 523-1047hz, 262-523hz, 131-262hz, 65-131hz, 20-65hz.



bar 73

4:48

4:52

4:56

5:00

Piano parts (Pno. 1-6) and Electric guitar (Elec.) staff. Includes frequency range list: 2093-4186hz, 1047-2093hz, 523-1047hz, 262-523hz, 131-262hz, 65-131hz, 20-65hz.

bar 77

5:04

5:08

5:12

Pno. 6

p *diminuendo*

Pno. 5

p *pp* *mp* *ppp*

Pno. 1

pp *ppp* *p*

Elec.

2093-4186hz
1047-2093hz
523-1047hz
262-523hz
131-262hz
65-131hz
20-65hz



bar 80

5:16

5:20

5:24

Pno. 6

Pno. 5

p *mp*

Pno. 3

pp

Pno. 2

mf

Pno. 1

pp *mp*

Elec.

2093-4186hz
1047-2093hz
523-1047hz
262-523hz
131-262hz
65-131hz
20-65hz

bar 83

5:28

5:32

5:36

Pno. 7

Pno. 6

Pno. 5

Pno. 3

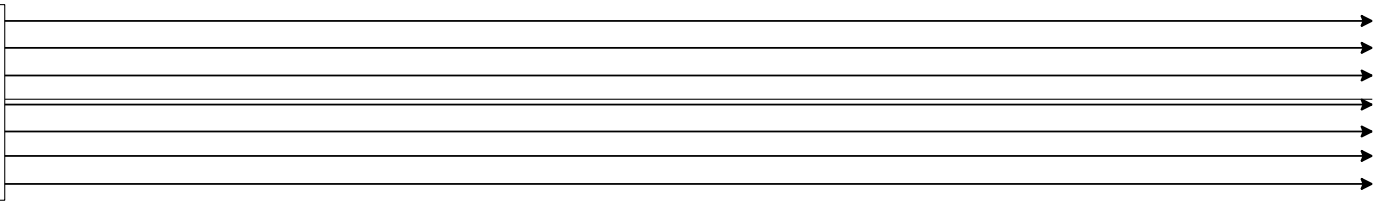
Pno. 2

Pno. 1

Elec.

pp
ppp *crescendo*
p
ppp *p*
p
pp

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz



bar 86

5:40

5:44

5:48

5:52

Pno. 7

Pno. 6

Pno. 5

Pno. 4

Pno. 3

Pno. 2

Pno. 1

Elec.

Pno. 7: *p*
 Pno. 6: *mp*, *pp*
 Pno. 5: *mp*, *p*
 Pno. 4: *pp*, *mf*
 Pno. 3: *mp*
 Pno. 2: *mp*
 Pno. 1: *p*, *pp*
 Elec. frequencies: 2093-4186hz, 1047-2093hz, 523-1047hz, 262-523hz, 131-262hz, 65-131hz, 20-65hz

bar 90

5:56

6:00

6:04

6:08

Pno. 7

Musical staff for Pno. 7, treble clef. A thick black line is drawn across the staff from the beginning to the 6:00 time mark.

Pno. 6

Musical staff for Pno. 6, treble clef. A thick black line is drawn across the staff from the beginning to the 6:04 time mark. A melodic line with a wavy hairpin above it starts at 6:00. The dynamic marking *p* and the instruction *diminuendo* are present, followed by a dashed line.

Pno. 5

Musical staff for Pno. 5, treble clef. A thick black line is drawn across the staff from the beginning to the 6:04 time mark. A melodic line with a wavy hairpin above it starts at 6:04. The dynamic markings *ppp* and *mp* are present.

Pno. 4

Musical staff for Pno. 4, treble clef. A thick black line is drawn across the staff from the beginning to the 6:08 time mark. A melodic line with a wavy hairpin above it starts at 6:08. The dynamic markings *ppp* and *p* are present.

Pno. 3

Musical staff for Pno. 3, bass clef. A thick black line is drawn across the staff from the beginning to the 6:04 time mark. A melodic line with a wavy hairpin above it starts at 6:00. The dynamic markings *pp* and *ppp* are present.

Pno. 2

Musical staff for Pno. 2, bass clef. A thick black line is drawn across the staff from the beginning to the 6:04 time mark. A melodic line with a wavy hairpin above it starts at 6:00. The dynamic markings *p* and *ppp* are present.

Pno. 1

Musical staff for Pno. 1, bass clef. A thick black line is drawn across the staff from the beginning to the 6:04 time mark. A melodic line with a wavy hairpin above it starts at the beginning. The dynamic marking *ppp* is present.

Elec.

Electronics section with seven horizontal lines and arrows pointing right. A box on the left contains the following frequency ranges:

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz

bar 94

6:12

6:16

6:20

6:24

Pno. 7

Musical staff for Pno. 7. It begins with a treble clef and a whole rest. At 6:16, there is a quarter note with a wavy hairpin above it, followed by a quarter rest. The dynamic marking *pp* is placed below the staff.

Pno. 6

Musical staff for Pno. 6. It begins with a treble clef and a whole rest. At 6:16, there is a quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it. A dashed line extends from the start of the staff to the right, with the dynamic marking *ppp* placed below it.

Pno. 5

Musical staff for Pno. 5. It begins with a treble clef and a whole rest. The dynamic markings *mf*, *pp*, *p*, and *pp* are placed below the staff at different time points.

Pno. 4

Musical staff for Pno. 4. It begins with a treble clef and a whole rest. At 6:20, there is a quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it. The dynamic markings *ppp*, *pp*, *ppp*, and *pp* are placed below the staff.

Pno. 3

Musical staff for Pno. 3. It begins with a bass clef and a whole rest. At 6:20, there is a quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it. The dynamic markings *mp* and *pp* are placed below the staff.

Pno. 2

Musical staff for Pno. 2. It begins with a bass clef and a whole rest. At 6:12, there is a quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it. The dynamic marking *pp* is placed below the staff. At 6:24, there is another quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it.

Pno. 1

Musical staff for Pno. 1. It begins with a bass clef and a whole rest. At 6:12, there is a quarter note with a wavy hairpin above it, followed by a sequence of notes with accidentals and a final note with an 'x' above it.

Elec.

Diagram showing frequency ranges for electronics. A box on the left contains the following ranges: 2093-4186hz, 1047-2093hz, 523-1047hz, 262-523hz, 131-262hz, 65-131hz, and 20-65hz. Arrows point from these ranges to the right.

bar 98

6:28

6:32

6:36

6:40

Pno. 7

Musical staff for Pno. 7. It begins with a treble clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and a dynamic marking of *pp* (pianissimo) below the staff.

Pno. 6

Musical staff for Pno. 6. It begins with a treble clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and a dynamic marking of *pp* (pianissimo) below the staff.

Pno. 5

Musical staff for Pno. 5. It begins with a treble clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and dynamic markings of *mp* (mezzo-piano) and *p* (piano) below the staff.

Pno. 4

Musical staff for Pno. 4. It begins with a treble clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and dynamic markings of *mp* (mezzo-piano), *p* (piano), *mf* (mezzo-forte), *pp* (pianissimo), and *p* (piano) below the staff.

Pno. 3

Musical staff for Pno. 3. It begins with a bass clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and dynamic markings of *p* (piano), *pp* (pianissimo), and *p* (piano) below the staff.

Pno. 2

Musical staff for Pno. 2. It begins with a bass clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and a dynamic marking of *p* (piano) below the staff.

Pno. 1

Musical staff for Pno. 1. It begins with a bass clef and a key signature of one sharp (F#). The staff contains a few notes with accidentals (F#, G, A, B) and dynamic markings of *mp* (mezzo-piano) and *pp* (pianissimo) below the staff.

Elec.

Electronic filter frequency bands. A box on the left lists frequency ranges in Hz, with arrows pointing to horizontal lines representing the filter response across the frequency spectrum.

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz

bar 102

6:44

6:48

6:52

6:56

Pno. 7

Musical staff for Pno. 7. Treble clef. A whole note chord is written at the beginning, consisting of notes G4, A4, B4, C5, D5, E5, F5, G5. The dynamic is *pp*. A thick horizontal line covers the rest of the staff. The word *crescendo* is written below the staff.

Pno. 6

Musical staff for Pno. 6. Treble clef. A thick horizontal line covers the entire staff. The dynamic *p* is written below the staff.

Pno. 5

Musical staff for Pno. 5. Treble clef. A thick horizontal line covers the staff until approximately 6:56. Dynamic markings *pp*, *ppp*, and *mf* are placed below the staff. At 6:56, a whole note chord is written, consisting of notes G4, A4, B4, C5, D5, E5, F5, G5. The dynamic *crescendo* is written below the staff.

Pno. 4

Musical staff for Pno. 4. Treble clef. A thick horizontal line covers the staff until approximately 6:48. Dynamic markings *pp*, *ppp*, *pp*, *p*, *mf*, *p*, and *pp* are placed below the staff. At 6:48, a whole note chord is written, consisting of notes G4, A4, B4, C5, D5, E5, F5, G5.

Pno. 3

Musical staff for Pno. 3. Bass clef. A thick horizontal line covers the staff. Dynamic markings *pp*, *mp*, and *pp* are placed below the staff.

Pno. 2

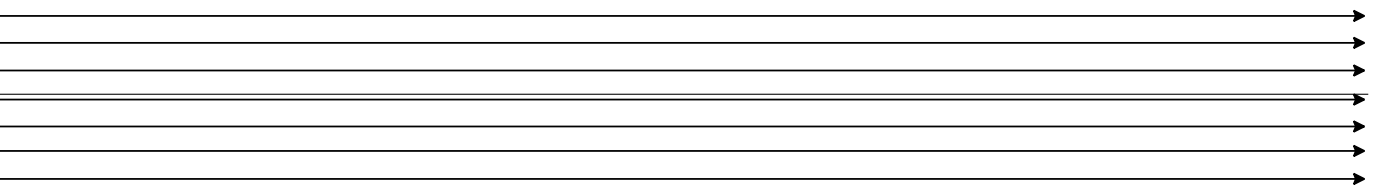
Musical staff for Pno. 2. Bass clef. A thick horizontal line covers the staff until approximately 6:52. Dynamic markings *ppp* and *p* are placed below the staff. At 6:52, a whole note chord is written, consisting of notes G4, A4, B4, C5, D5, E5, F5, G5.

Pno. 1

Musical staff for Pno. 1. Bass clef. A thick horizontal line covers the staff until approximately 6:56. Dynamic markings *mp*, *p*, *pp*, and *mp* are placed below the staff. At 6:56, a whole note chord is written, consisting of notes G4, A4, B4, C5, D5, E5, F5, G5.

Elec.

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz



bar 106

7:00

7:04

7:08

7:12

Pno. 7

Pno. 6

Pno. 5

Pno. 4

Pno. 3

Pno. 2

Pno. 1

Elec.

7:00 *ppp*

7:04 *p*

7:08 *p* *mp* *mf*

p *mp* *p*

p *mp* *p*

pp *p* *ppp*

p *ppp*

- 2093-4186hz
- 1047-2093hz
- 523-1047hz
- 262-523hz
- 131-262hz
- 65-131hz
- 20-65hz



bar 110

7:16

8:40

Pno. 7

Musical staff for Pno. 7, featuring a treble clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 6

Musical staff for Pno. 6, featuring a treble clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 5

Musical staff for Pno. 5, featuring a treble clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 4

Musical staff for Pno. 4, featuring a treble clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 3

Musical staff for Pno. 3, featuring a bass clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 2

Musical staff for Pno. 2, featuring a bass clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Pno. 1

Musical staff for Pno. 1, featuring a bass clef, a sharp sign above the staff, and a bar line. The word "subito" is written below the staff.

Elec.

Electronics section with a double bar line and seven frequency ranges: 2093-4186hz, 1047-2093hz, 523-1047hz, 262-523hz, 131-262hz, 65-131hz, and 20-65hz. Arrows point from each range to a vertical bar line. A small circle is located at the bottom right of the section.