

Sever Tipei

HB with G & E









computer-assisted composition
for piano and computer-generated sounds

HB with G and E includes a fixed-media part consisting of overtones of E_0 (20.6 Hz) and selected equal-tempered sounds in the piano part related to the same fundamental.

The piano part contains a number of short fragments whose start times are precisely specified while other aspects such as the tempo are left at the performer's discretion.

Except for a few instances when dynamics are marked, the pianist should match them to the volume of the fixed media or be louder. As a general rule, the piece should start and end quietly and become louder towards the middle.

Besides traditionally notated phrases, the piano part contains various percussive sounds; here are some ways of attack:

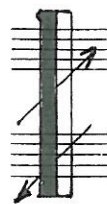
-  with the second phalange of the clutched fist on white keys
-  with the second phalange of the clutched fist on black keys
-  double attack from white keys to black keys or the other way around, as shown
-  with the edge of the hand
-  with the open palm
-  with the fist
-  wipe gently along the keys
-  wiping the keys with both hands, contrary motion

Resonance chords (press silently the keys) are an important feature. During the second half, they are left at the discretion of the performer and notated with an \mathcal{R} . Starting at 10:16 till the end, only the pitches **A**, **C#**, and **G** should be allowed to resonate.

Pedal should be used generously unless otherwise specifically indicated (no ped.)

E(20.6 Hz)
0:00

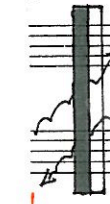
gliss on keys, no pitch



PPP

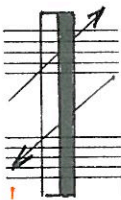
0:11

gliss on strings



PPP

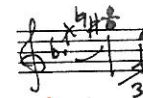
0:17



0:23



0:31



0:35



0:39



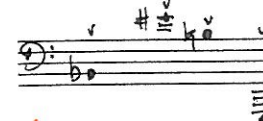
0:45

mute strings



0:49

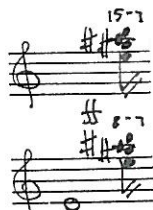
pluck strings



0:55



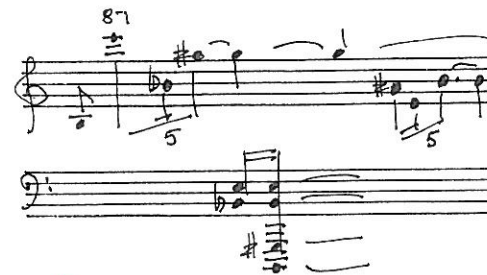
1:01



1:05



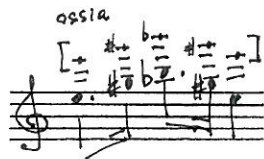
1:09



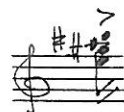
1:15



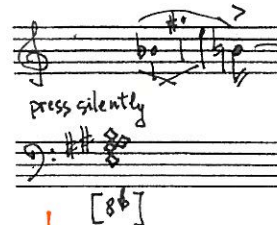
1:23



1:27



1:31

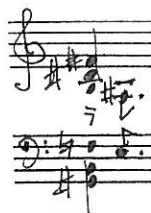


1:34

3
1:39



1:40



1:50



1:52

Handwritten musical notation for the first system, measures 1-4. The notation is in treble and bass staves with a key signature of two sharps (F# and C#). Measure 1 has a red dashed arrow pointing to the time signature 2:00. Measure 4 has a triplet of eighth notes.

Handwritten musical notation for the second system, measures 5-8. The notation is in treble and bass staves. Measure 5 has a red dashed arrow pointing to the time signature 2:08. Measure 8 has a triplet of eighth notes.

Handwritten musical notation for the third system, measures 9-12. The notation is in treble and bass staves. Measure 9 has a red dashed arrow pointing to the time signature 2:14. Measure 12 has a triplet of eighth notes.

Handwritten musical notation for the fourth system, measures 13-16. The notation is in treble and bass staves. Measure 13 has a red dashed arrow pointing to the time signature 2:18. Measure 16 has a triplet of eighth notes.

Handwritten musical notation for the fifth system, measures 17-20. The notation is in treble and bass staves. Measure 17 has a red dashed arrow pointing to the time signature 2:22. Measure 20 has a triplet of eighth notes and the text "Ped." below it.

Handwritten musical notation for the sixth system, measures 21-24. The notation is in treble and bass staves. Measure 21 has a red dashed arrow pointing to the time signature 2:28. Measure 24 has a triplet of eighth notes.

Handwritten musical notation for the seventh system, measures 25-28. The notation is in treble and bass staves. Measure 25 has a red dashed arrow pointing to the time signature 2:38. Measure 28 has a triplet of eighth notes.

Handwritten musical notation for the eighth system, measures 29-32. The notation is in treble and bass staves. Measure 29 has a red dashed arrow pointing to the time signature 2:48. Measure 32 has a triplet of eighth notes.

Handwritten musical notation for the ninth system, measures 33-36. The notation is in treble and bass staves. Measure 33 has a red dashed arrow pointing to the time signature 2:52. Measure 36 has a triplet of eighth notes.

Handwritten musical notation on a staff with time markers. The notation includes treble and bass clefs, key signatures, and various musical notes and rests. The time markers are indicated by red dashed lines and red text below the staff.

Time markers: 3:02, 3:04, 3:06, 3:10, 3:14, 3:18. The notation ends with "attacca ~".

Handwritten musical notation on a staff with time markers. The notation includes treble and bass clefs, key signatures, and various musical notes and rests. The time markers are indicated by red dashed lines and red text below the staff.

Time markers: 3:28, 3:32, 3:34. The notation includes a measure with a "5" and another with a "7".

Handwritten musical notation on a staff with time markers. The notation includes treble and bass clefs, key signatures, and various musical notes and rests. The time markers are indicated by red dashed lines and red text below the staff.

Time markers: 3:40, 3:44, 3:54, 3:58. The notation includes a measure with a "6" and another with a "3".



21
4:04 4:05



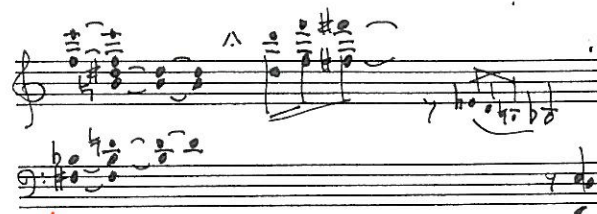
4:10



11
4:15 4:17



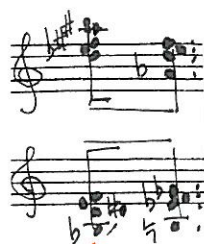
4:21



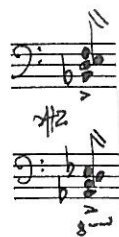
4:25



4:37



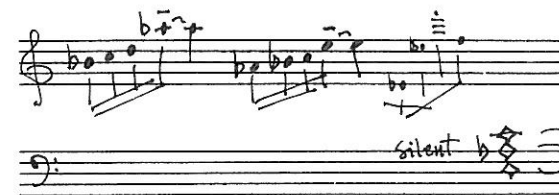
4:43



4:47



4:49



4:51

Ped sempre

4:53

33
5:01

5:03

5:17

5:25

5:29

55
5:28

39
5:38

5:45

5:51

5:59



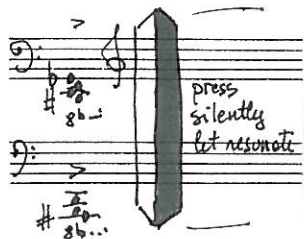
6:03



6:13



6:19

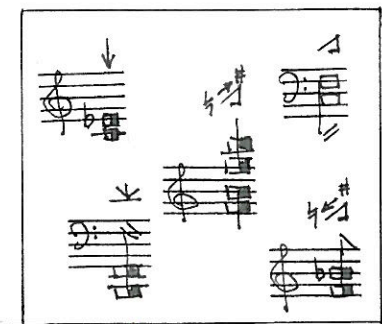


6:29

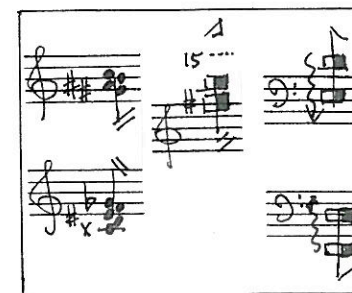
6:32



6:43



6:54



6:57

Handwritten musical notation on a timeline, featuring various musical staves and time markers. The timeline includes the following time points and associated musical elements:

- 7:00: Downward arrow.
- 7:01: Blue "22" above the line.
- 7:04: Blue "35" above the line.
- 7:05: Downward arrow.
- 7:08: Downward arrow.
- 7:09: Downward arrow.
- 7:10: Downward arrow.
- 7:12: Downward arrow.
- 7:14: Downward arrow.
- 7:15: Downward arrow.
- 7:17: Downward arrow.

Several musical staves are enclosed in boxes, and some staves have blue "2" markings above them.

Handwritten musical notation on a timeline, featuring various musical staves and time markers. The timeline includes the following time points and associated musical elements:

- 7:21: Downward arrow.
- 7:25: Downward arrow.
- 7:26: Downward arrow.
- 7:28: Blue "35" above the line.
- 7:29: Downward arrow.
- 7:33: Downward arrow.
- 7:35: Downward arrow.

Several musical staves are enclosed in boxes.

Handwritten musical notation on a timeline, featuring various musical staves and time markers. The timeline includes the following time points and associated musical elements:

- 7:40: Downward arrow.
- 7:42: Downward arrow.
- 7:44: Downward arrow.
- 7:45: Downward arrow.
- 7:46: Downward arrow.
- 7:53: Downward arrow.
- 7:54: Downward arrow.
- 7:57: Downward arrow.
- 7:59: Downward arrow.

Several musical staves are enclosed in boxes.

8:00

8:02

8:05

8:06

8:08

8:11

8:13

8:14

8:15

8:17

8:20

8:21

8:22

8:24

8:27

8:32

8:36

8:37

8:38

8:42

8:46

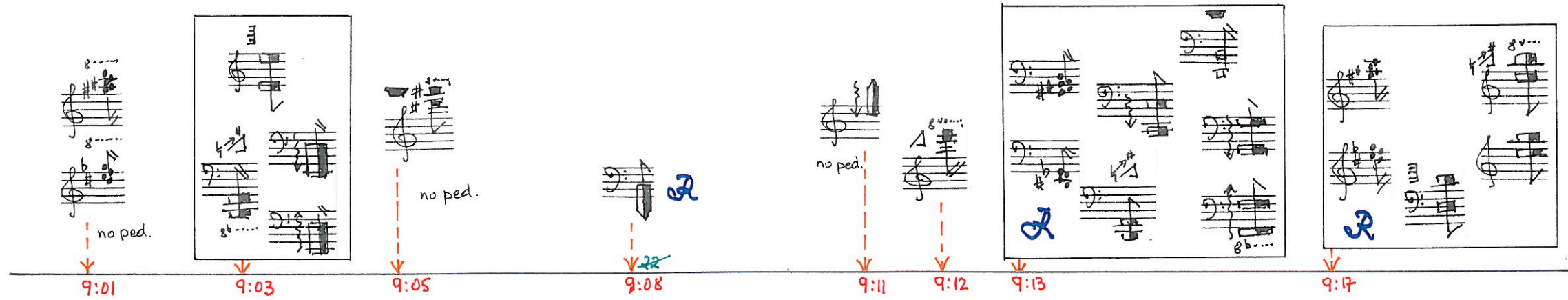
8:48

8:52

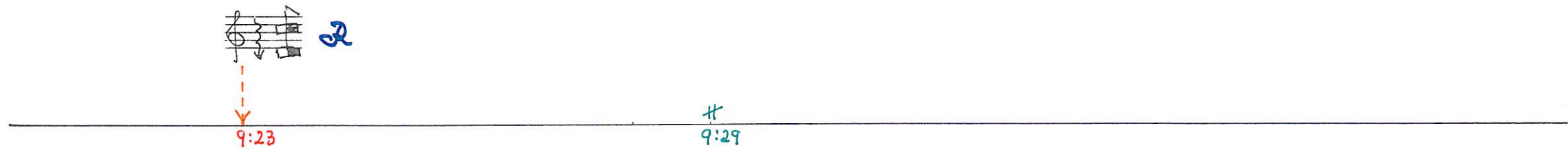
8:55

8:58

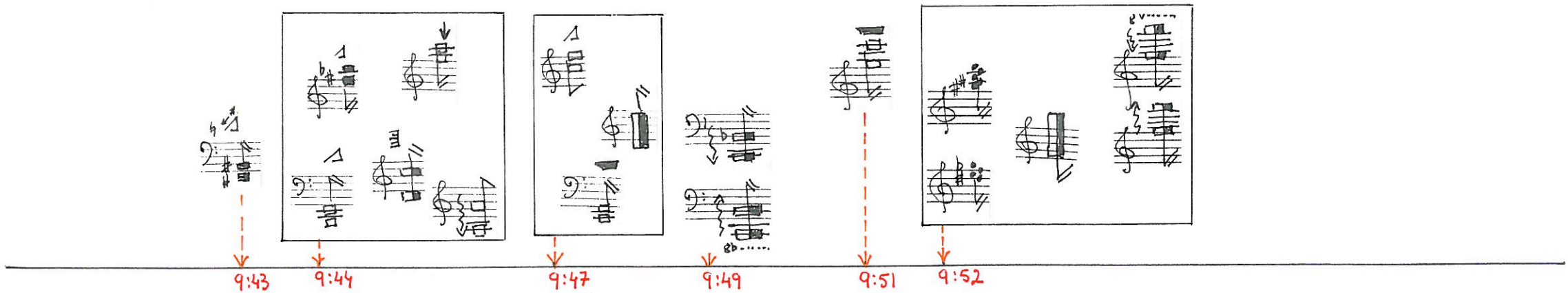
Handwritten musical notation on a staff, featuring several measures with notes and rests. The notation includes a treble clef and a key signature of one sharp (F#). The measures are marked with time stamps in red: 9:01, 9:03, 9:05, 9:08, 9:11, 9:12, 9:13, and 9:17. Some measures are enclosed in boxes. Annotations include "no ped." (no pedal) and blue markings.



Handwritten musical notation on a staff, featuring a single measure with notes and rests. The notation includes a treble clef and a key signature of one sharp (F#). The measure is marked with a time stamp in red: 9:23. A blue marking is present. A time stamp in green: 9:29 is also visible.



Handwritten musical notation on a staff, featuring several measures with notes and rests. The notation includes a treble clef and a key signature of one sharp (F#). The measures are marked with time stamps in red: 9:43, 9:44, 9:47, 9:49, 9:51, and 9:52. Some measures are enclosed in boxes. Annotations include "no ped." (no pedal) and blue markings.



10:01

10:10

10:16

10:27

10:36

10:38

10:44

10:54

10:59