

st178.1.59



sumtone

:

michael edwards



for piano, percussion and computer

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I Kill by Proxy

for piano, percussion and computer

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for piano, percussion, and computer

st178.1.59
(incorporating 185.1.63 and 186.1.62)

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programme note

I read somewhere that when we elect a leader we are choosing the person to kill in our name. It's an idea that's easy to reject out of hand, but when you think about it, there's an awful lot of killing still being done today by large military organisations. The days of the wild west and the crusades may be over; the idea of war within a 'civilised' country's own borders may be unlikely; but still, some of those countries—my own included—spill a lot of blood in various parts of the world. The countries which do the killing are usually relatively wealthy; those who die, poor. It's not difficult to see the connection. As Balzac wrote: "The secret of great wealth with no obvious source is some forgotten crime, forgotten because it was done neatly."

Commissioned by the Center for Art and Media Technology (ZKM) Karlsruhe, Germany, *I Kill by Proxy* is a composition for piano, percussion, and computer lasting between 60 and 75 minutes. Mixing fully-composed and improvised musical structures, the considerable duration of this work is mitigated by a division into several sections, the major parts of which are a solo percussion piece, a solo piano piece, and a piano-percussion duo. Transitions between the pieces are improvised, creating a continuous work without breaks. Notwithstanding this design, the individual fully-composed sections can be performed separately, in a different context and programme.

As with almost all my compositional work since 2000, *I Kill by Proxy* was composed with my own algorithmic composition software. Object-oriented Common Lisp code was developed mainly at ZKM with the generous support of two Guest Artist stipends in the summers of 2000 and 2001. The software is continuously in development. For *I Kill by Proxy*, programming was focussed mainly upon new pitch-selection algorithms.

The computer part combines real-time sound processing techniques with playback of pre-mixed sound files. The sources for these sound files are mainly snippets of recordings of the instrumental parts of the piece, re-ordered and processed by the same algorithms that helped generate those parts.

Many thanks, as always, to Bill Schottstaedt of Stanford University for the CLM software with which the majority of the signal processing of sounds was made; and to the Camargo Foundation for a wonderful residency in Cassis, France, where most of the compositional work was done.

introduction

I Kill by Proxy is a concert-length work comprising three composed pieces (percussion and computer; piano and computer; piano, percussion, and computer) preceded and linked by improvisations. Each piece moves seemlessly to the next via the improvisations (“sempre attacca”). So performed, the duration will be between 60 and 75 minutes, depending on the length of the improvisations.

Each of the three composed works may be performed independently, without improvisations, in a normal concert programme.

percussion instruments / setup

For a complete performance the percussion should be set up around the audience as detailed on the “instrument plan / microphones” page below. To avoid microphone signal feedback the instruments should be placed outside (i.e. further away than) the loudspeakers.

In performances of individual pieces, placement of the percussion instruments around the audience is not necessary. *Part 1* (percussion and computer) would need the instruments at stations 1 and 2 (see instrument plan / microphones in the next pages). *Part 3* (piano, percussion, and computer) would need the instruments at stations 4–11.

Almglocken

If absolutely necessary the number of Almglocken needed for the piece may be reduced to four: low, medium low, medium high, and high (i.e. undefined pitches, as determined by the player). Then, when a pitched Almglocke is encountered in *Part 1*, the player chooses the most appropriate one of the four available.

performance requirements

Besides the two instrumentalists the following personnel will be necessary:

1. an improvising computer musician familiar with the Max/MSP environment created for the project (usually the composer himself)
2. a sound engineer responsible for setting up the loudspeakers, microphones etc., switching microphone routing between percussion stations as the percussionist changes instruments, and balancing levels during the performance
3. a further computer musician who follows the score and triggers sound files during the composed pieces (necessary to allow the improvising computer musician to reset programmes etc. before the next improvisation). See “sound file triggering” below for more details.

It is assumed that all three will sit at an optimal listening position within the audience. It may however be desirable for the improvising computer musician to be “onstage” (near the pianist).

essential equipment

- the Max/MSP audio programming environment (version 4.5 or above) running on three suitable Macintosh or PC computers:
 1. percussion station routing (could perhaps be replaced by a mixing desk or other routing software)
 2. improvisation (2 channel input / 8 channel output sound card). Input 1 is a mono mix of the current percussion station, input 2 a mono mix of the piano.
 3. sound file playback/triggering (4 channel output sound card)
- the Max/MSP improvisation, sound file playback, and percussion routing patches supplied by the publisher on DVD-ROM (email hire@sumtone.com, order online at <http://www.sumtone.com/performance-materials.php>, or write to the address at the front of this score)
- MIDI faders (16) plugged into the improvisation computer's sound card. These should send volume messages to Max/MSP on separate MIDI channels. If controller numbers must be sent instead of MIDI channels, then the "midi-faders" patcher in Max will have to be suitably reprogrammed.
- 21 suitable microphones for the piano and percussion (see "instrument plan / microphones" on the following pages for suggested distribution). N.B. This assumes only 2 microphones for the piano; more may be necessary or desirable.
- Sound system: The ZKM "Klangdom" was used for the first performance and a similar half-dome multi-speaker installation surrounding the audience (particularly from above) is preferred where possible. Where not, then 8 loudspeakers should suffice. They are to be placed around the audience as follows:

1	2
3	4
5	6
7	8

Performances with less loudspeakers are possible by combining two channels onto one speaker on the mixing desk or in software (the outputs of Max/MSP or the sound card configuration). In particular, performance of individual pieces may only require a 4-channel setup, depending on the size and acoustic of the performance space.

sound file triggering

Two 4-channel sound file streams (each of varying duration) run simultaneously, overlapping and providing for considerable flexibility of tempo and timing in the instrumental parts.

Computer trigger points (sound files) are indicated in the score by a blue arrow (grey if not printed in colour). The number next to this indicates the sound file to be triggered and is provided for information only (e.g. 2.01 indicates the first sound file in the second stream).

The score must be followed during the performance and the sound files triggered at the appropriate times. This may require eye-to-eye coordination with the instrumentalists. The beginning of each piece will be indicated by the improvising computer musician or one of the instrumentalists as the transition from improvisation to composed piece is usually intentionally unclear.

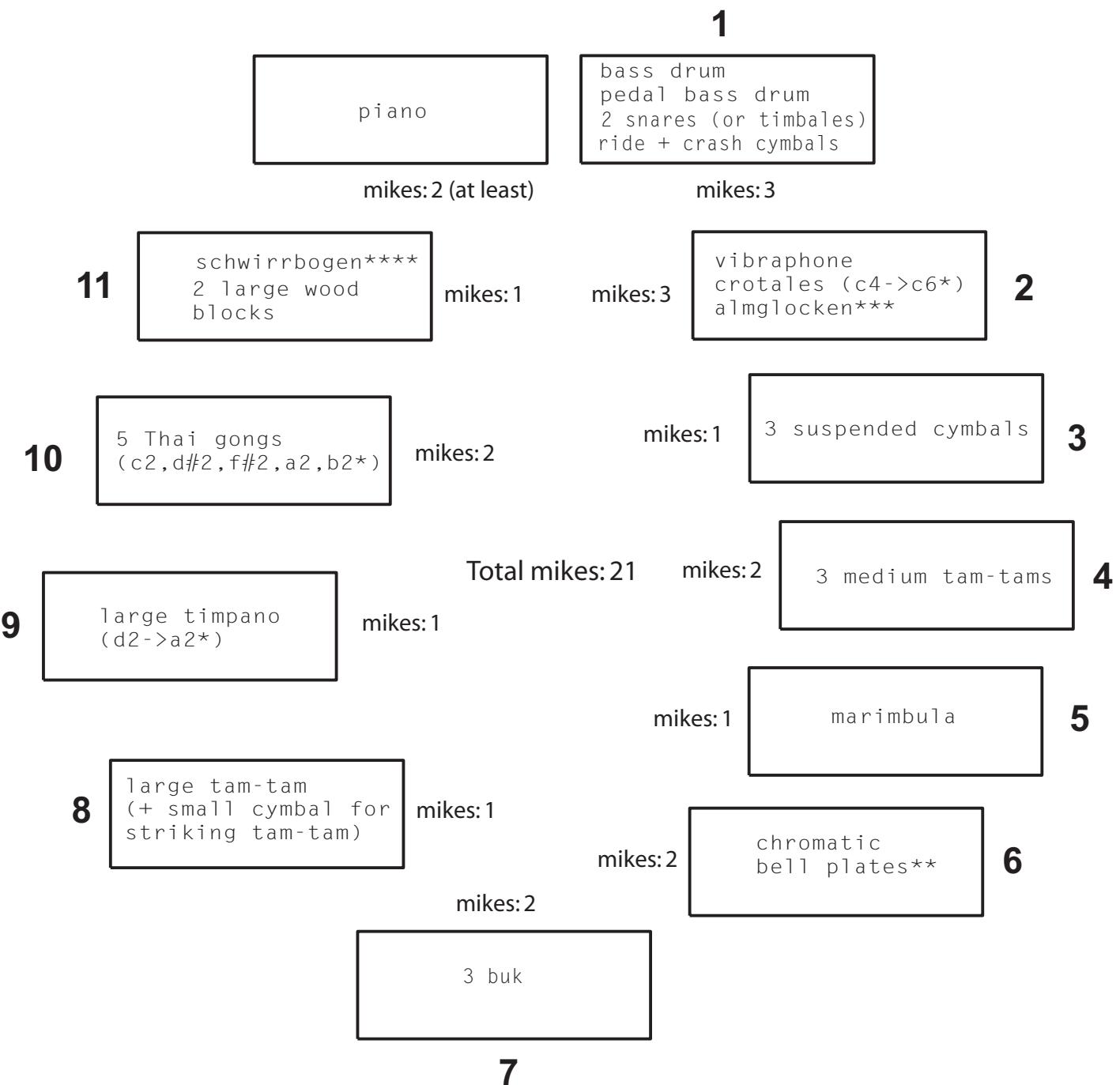
score directions

Accidentals carry throughout the bar but only apply to a single octave/staff, and are repeated for clarification as deemed necessary.

Except where otherwise indicated, meter changes necessitate rhythmic units to retain the same temporal duration, i.e., when changing from 2/4 to 5/8, an eighth note is equal in both meters.

For more details about the performance of this piece, please send email to info@sumtone.com or write to the address at the front of the score.

instrument plan / microphones:



* Octave designation: c4 = middle C

**** or Schwirrholtz

** Bell plate notes

(ossia: all but G4 and Aflat4
could be replaced by lower
octave crotale if
absolutely necessary):



*** Almglocken notes (see "percussion instruments / setup" for discussion of how to reduce these):



The pianist will also need a small cymbal (or pan lid etc.) c. 21cm in diameter

inside piano strike points:

The final piece calls for specific inside-piano effects that are referenced in the score by numbers which refer to the parts of the piano involved. These are shown below for reference.



I Kill by Proxy

duration 30–75 mins.

michael edwards 2006–7

opening improvisation

Before the performers come on stage a long looping sound is playing quietly. The performers walk in chatting, casually, not at all as if they were about to perform. (If the computer improvisor will be “onstage” too then s/he should enter with the instrumentalists and take his/her place. It is however envisaged that s/he will already be in place next to the sound engineer and sound file triggerer before the performance begins.). The instrumentalists move towards the piano; they may acknowledge the audience if they like, of course. They start improvising inside the piano: plucking strings, tapping etc. all quite “busy” but not too loud.

The improvisation continues and the computer starts to process the sound quite radically (granulation, loops). The opening loop stops. Low rumbling loops enter from the computer. After a few minutes the percussionist moves towards station 1 where s/he begins softly playing drums etc., again, quite casually, almost as if warming up.

The percussion now becomes a little more penetrant with drum hits etc. At an unexpected point (but as the overall volume and energy level is quite high) the first composed piece starts (with the bass drum stroke), and the piano/computer improv dies down. By bar 11 (cymbals) only the percussion remains.

Part 1

percussion & computer
duration c. 13 mins.

wooden sticks hit together

crash cymbal
ride cymbal
high snare
low snare

bass drum
pedal bass drum

ff f

lunga

$\text{d} = 176$

$\text{7 } \text{d} = \text{d} (\text{d} = 132)$

(rimshot)

$\text{ff} > \text{p} < \text{ff} & \text{p} < \text{ff} \text{ mp } \text{mf} & \text{p}$

(centre (cup) of cymbal)

13

pp

21

f pp

28

cresc.

35

poco meno mosso, accel.....piu mosso a tempo

mf p f ff f

42

pp

49

f p

56

f ff

62

p

A 3-5 times: dynamic, articulation, and even slight rhythmic variations encouraged

repeat this bar 7 times on last repeat of phrase

76 on the rim

3-5 times with gradual but uneven crescendo spread over the repetitions

84

Draw stick across drum face with high pressure, as if writing.
Each attack may also be accompanied by a pedal bass drum note if desired.

93

$\text{d} = \text{j} = 176$
erratic, jagged, crazed crash cymbal may be substituted here ad lib

3-5 times, crescendo each time but intensifying over repeats; dynamic, rhythmic, and articulation variations encouraged

100

$\text{d} = \text{j}$

ff pp sub

108

optional on repeats

116 $\text{d} = \text{j} = 132$

B ↓ 127: 1.01
(computer trigger point)

122

pp sub

fff

Bass drum and lower snare may be substituted for two snares if desired

129

135

139

pp sub

sim

ricochet roll (one hand)

141

Sim: bass drum and lower snare may be substituted for two snares if desired

145

150

ff

ff

pp

Suddenly relaxed

$\text{J} = 108$

155

senza cresc.

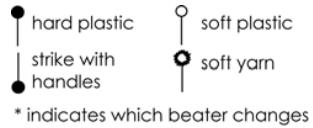
161

(soft)

mp

Very long pause (c. 1:15)
computer "solo"
co-ordinate with
computer performer:
Letter C begins at 2:33
of the current sound file

Vibraphone

 $\text{♩} = 132\text{--}144$ 

Quasi improvisando. A feeling of rhythmic freedom, lightness, playfulness, and spontaneity is essential. The player may deviate from the score considerably—especially rhythmically and in the length of rests—if so desired. This is especially true of the section around letter K where the player should attempt to blend the character of the piece into the Karl Berger quotation mixed in from the computer.

165 **C**

mf

172

179

185

192

198

203

208

214

221

227

234

240

246

253

261

268

275

282

288

triangle noteheads = crotales:
mallet heads only (i.e. not the handles)

245: 1.02 E

cross noteheads = almglocken (see preface for discussion)

294

299

304

309

314

F

317: 2.02

320

326

332

338

343

347

352

357 G ↓ 357: 1.03

357 f

363 f

368 f

374 p

381 H

386 f subito

392 f

397 p

403 p mf

409 f

411: 2.03

414

420

425

431

437 cresc.

442 cresc.

448

453 J
f ↑ 456: 1.04

459

465

471

477

cresc.

483

K

(blend into Karl Berger quotation)

490

497

504

cresc.

510

515

522

L

528

534

540

547

554

561

569

577 M (piano may enter with improvisation at this point)

577: 2.04

585

593

602

611

st185.1.63

This page contains ten musical staves. The first four staves (measures 540-569) are standard notation with treble clefs and various time signatures (5/8, 16, 9/16). The piano part begins at measure 577 with a dynamic of mf, indicated by a large letter 'M' in a box. A blue arrow points to the start of the piano part with the text '577: 2.04'. Measures 585 through 611 show the continuation of the piano part with various dynamics and time signatures, including a section starting at f.

618

626

634

642

650

repeat the following three passages many times, perhaps
varying and improvising on the patterns ad lib

658

666

673

linking improvisation

The computer improvisor begins processing before the end of the previous piece. This should be clearly audible before that piece ends; it continues into this improvisation before being replaced by processing of the new instrumental sounds.

Immediately at the end of the previous piece, the percussionist moves to station 3 (cymbals) and begins quiet but crescendoing rolls with various sticks (beginning with brushes). These continue throughout the following (sharp attacks etc. also ad lib) and break off abruptly as the next piece begins (but laissez vibrez).

The pianist has meanwhile intervened with a sharp “ta-ta ta-ta” (same rhythm/tempo as the opening of the following piece) using a metal block (or something similar) on the metal frame of the piano (with pedal, laissez vibrez). S/he then proceeds with an almost continuous and energetic improvisation using the fingers tapping on the lowest strings of the piano. This should be a fast repeated rhythm (perhaps straight semiquavers alternating hands/fingers). Attacks with the flat of the hand on the strings should be interspersed. Begin to move up towards the higher strings. When at the top strings, use the fingernail to pluck (perhaps erratically). Take up the metal block in the right-hand and start striking the higher strings and other parts of the inside of the piano (frame etc.). Start to move towards tapping the wood of the piano before taking a normal seating position. At this point continue tapping on the lid of the piano before launching seamlessly into the following piece.

The computer improvisor heavily processes all of this ad lib. In particular the processing (perhaps loops) should provide a background texture that the instrumentalists can use to cover gaps as s/he changes playing techniques (especially the percussion move from station 2 to 3).

Part 2

piano & computer
duration c. 10:30

Freely but not lagging ♩ = 63-69

(computer 1.01 trigger point)

5: 2.01

8: 1.02

11

bell-like

sost. →

Ped. → pp (catch resonance) uc (=una corda) *

tc (=tre corde)

(try to vary the timbre of the repeated G)

* If sost and uc pedal can't be depressed with one foot simulate uc but hold sost.

16: 1.03

uc tc uc tc uc

8va

16

(8)

19 *mp*

20 *pp*

21 *ppp*

22 *p*

23 *mp*

24 *pp*

25 *uc*

25: 2.02

A * nails of 1,2 pluck outer
2 strings simultaneously

25 *pizz.**

25 *mf*

26 *(ord)*

27 *(pizz.)*

28 *f*

29 *p*

30 *f*

(*ped. semper*)

33: 1.04

30 *mp f mf*

31 *mp f mf*

32 *mp sffz*

33 *sffz ff ff (loco)*

34 *pp*

35 *ff*

36: 1.04

36

36

36: 1.04

pp

uc

Ped.

B

51 *tc*

51: 2.03 *ord (keys)* *(loco)*

ppppp *mp*

pp *p*

ppppp *ppp*

ppp *p*

57

rit..... =44-50
8va-|
voice in sndfile 1.04:
"aux 3"

p

ped. ad lib.

ppp

accel..... ♩=58-63

63

"spool 5"

pp

mf

mf

67

mp

mp

mp

p

ppp

8vb

C

70

martellato

ff subito

tc

8va

ms

md

pp

Led.

Led. →

74: 2.04

(8)

muted: place hand over full octave of strings: dull sound, not harmonics

3

3

4

1

(loco)

pp

p

8vb

$\frac{1}{2}$ *Led.* →

78

Tempo primo
(♩=69-72) *8va-* 1

starting to press a little

82: 1.06

(muted)

Ped.

(8)-----|

mp p mf

Ped. ad lib. ♫

pp

mp p mf

D

87: 1.07

ff mf

f

mp

p

mp uc

Ped.

84

89

8va-

pp pp

p

mp p mp

(uc) tc uc

tc uc

tc uc tc

(8)-----|

93

pp

pp ff pp

tc uc ♫

uc

95: 2.05

97 *relaxed*

103 *meno mosso*

ancora piu meno mosso

113 *Expansive*

117 *p* # *pp* *mf* *p* *uc tc* *p* *(sost) p* *uc*

8va 121: 1.08

120 *mf* *p* *f* *ff* *sfffz* *c.46* *F* *#8* *Computer solo c. 30secs*
Final accent starts bar 123

tc *mf* *P* *ff 8vb* *sfffz p* *Ped.* *pp* *uc*

124 *pp* *pppp* *pp* *sost* *pppp* *c.36* *8va*

md *126: 2.07* *uc P (al fine)*

(8)

130 *pppp* *pppppp*

linking improvisation

The percussionist is at station 4. Towards the end of the previous piece (not before bar 127), begin a very light continuous brushing of the highest tam-tam. Once the previous piece is over, this may rise in dynamic and start to include the kinds of textures/gestures found at the beginning of the next piece.

The piano meanwhile has slowly and quietly inserted the cymbal (or pan lid) onto the strings of the piano (as detailed at the beginning of the next piece) and begins some very quiet turns (some continuous, some isolated, sparse, sporadic) of this on the strings (pedal). Also introduce single notes within the cymbal range to generate quiet buzzes on the cymbal.

The instrumentalists (in combination with the computer improvisor who is processing all of this beginning with the percussionist before the end of the previous piece) should aim to build up energy without increasing the dynamic beyond mezzo-piano. They should move seamlessly into the next piece, i.e. they should have reached the same dynamic and texture as at the opening. (The opening piano chord of the next piece should, however, be the first such chord—only gentle single notes in the improvisation.) The computer improvisation should die down as the sound files rise.

Part 3

piano, percussion & computer
duration c. 31 mins.

3 Medium Tam-Tams

triangle beater; tremolo with one brush/hand per tam-tam; changes in timbre encouraged when tremolo in each hand also a metal (triangle) beater—metal part of brush handle could substitute for this where required

▲ : metal beater ■ : hold metal beater very near face of tam-tam so that the vibrations make contact with the beater
(if necessary restrike gently with fist to generate energy)
— : move beater laterally across face

■ : move bedsheet laterally across face

C = strike normal playing position of face

2

PERCUSSION

* always laterally until bar 17

With relaxed urgency (!); slowly
paced but unhesitating

1.01 ↓ (computer trigger point)

 Place a small cymbal approx. diameter 21cm onto the strings covering this range (could also be c# or d# of lower octave crotales)

Pigno

Led. *ad lib*: notes/resonances to continue over rests unless otherwise directed

2

10

13: 2.01

(C)

(R)

(C)

mf mp

f mp

pp

pp

8va

16

normal tremolo
(i.e. not laterally; from here on
only laterally when indicated by line)

(8)

pp *mp* *pp* < *mp* < *f* > *mp*

mp

ppp

sffz *p*

ppp

ppp

21: 1.02

21

mf

p *3*

mp *3*

pp

pp

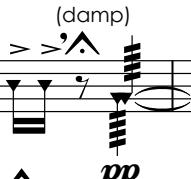
pp

pp

pp

pp

21: 1.02

25 (l.v.) (damp)  































29 (scrape full rhythmic length) l.v. 











34 



















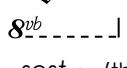






36: 1.03













37

p

damped with finger near beginning of string

ppp *mp* *ppp* *mp*

pp *mp* *ppp* *mp*

Led.

Bracketed notes may be omitted if they would cause an impossible stretch.

40: 2.02

40

tr

mp *p* *pp*

poco meno mosso *mp* *8va*

p=63

ppp *pp* *p* *poco* *pp*

b

start as late as possible but reach high A at correct time *8vb*

Led. →

44 (tr)~~~~~

tr~~~~~

pp

pp

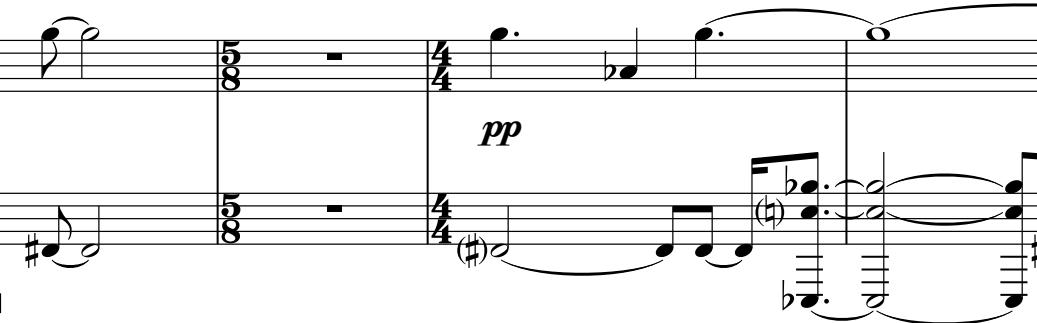
8va *3*

p

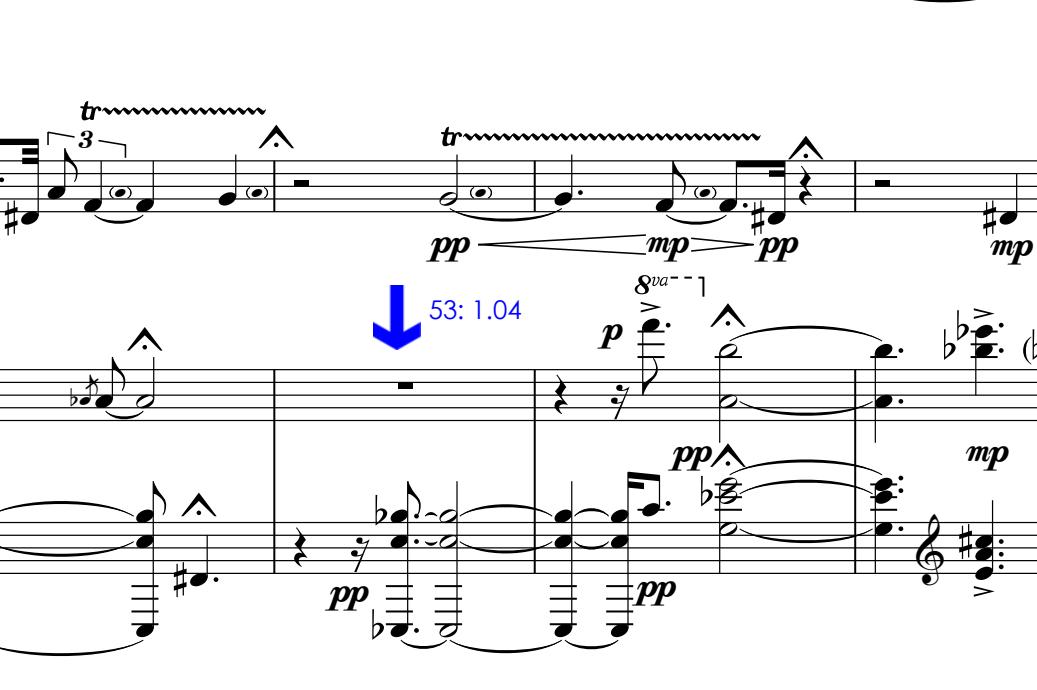
pp

b

8vb

48 (tr) 

52



53: 1.04

56 (tr)



56: 2.03

73

meno mosso
♩=56

pp

mp

pp

mp

p

pp

pp

f *pp*

8va

mf

pp

mf p

pp

mf

79: 1.05

Musical score for piano, page 10, measures 81-88.

Measure 81: Treble clef. Dynamics: *mp*, *pp*. Articulation: *poco accel e cresc.....*

Measure 82: Bass clef. Measure number 82. Articulation: *(loco)*. Measure number 83. Articulation: *3*.

Measure 83: Treble clef. Measure number 83. Articulation: *8va*. Measure number 84. Articulation: *pp*.

Measure 85: Treble clef. Measure number 85. Articulation: *mp*, *b>*. Measure number 86. Articulation: *.....♩=72*. Measure number 87. Articulation: *b>..*. Measure number 88. Articulation: *meno mosso ♩=63*.

Measure 86: Bass clef. Articulation: *mp*.

Measure 87: Bass clef. Articulation: *pp*.

Measure 88: Treble clef. Measure number 88. Articulation: *pp*. Measure number 89. Articulation: *mf*. Measure number 90. Articulation: *mf*.

Measure 91: Treble clef. Measure number 91. Articulation: *pp*. Measure number 92. Articulation: *pp*. Measure number 93. Articulation: *pp*.

Measure 94: Bass clef. Measure number 94. Articulation: *pp*. Measure number 95. Articulation: *6*. Measure number 96. Articulation: *4*. Measure number 97. Articulation: *4*. Measure number 98. Articulation: *3*.

Measure 99: Treble clef. Measure number 99. Articulation: *pp*. Measure number 100. Articulation: *6*. Measure number 101. Articulation: *4*. Measure number 102. Articulation: *4*. Measure number 103. Articulation: *3*.

Measure 104: Bass clef. Measure number 104. Articulation: *pp*. Measure number 105. Articulation: *mp*, *b>*. Measure number 106. Articulation: *pp*. Measure number 107. Articulation: *pp*. Measure number 108. Articulation: *ppp*.

Measure 109: Bass clef. Measure number 109. Articulation: *ppp*. Measure number 110. Articulation: *ped.* Measure number 111. Articulation: *damped more: further in, metallic*.

92

98

3 Buk

C piu mosso $\text{♩} = 66-72$

100: 2.04
timpani mallets

damped more:
further in, metallic

ff mp

102

superball

p > pp ppp

meno mosso $\text{♩} = 63$

UC Ped. mp pp

tc Ped.

 106: 2.05

"Write" on the drum head with the superball;
normal writing pace;
may be shorter than the indicated duration but not longer

106

"I sleep"
"inno-"
3

8va-
sffz

f *pp* *tc* *UC*

UC *Ped.*

109

"-cent"
"fat"
"fed"
"ricochet"

p

pp

mp > pp

pp

tc *sost*

Ped.

113

"in"
"guilt"
(sndfile 2.05 at 0:46)

ricochet

pp

sim pp

f

fp

strong, expansive

8va-----

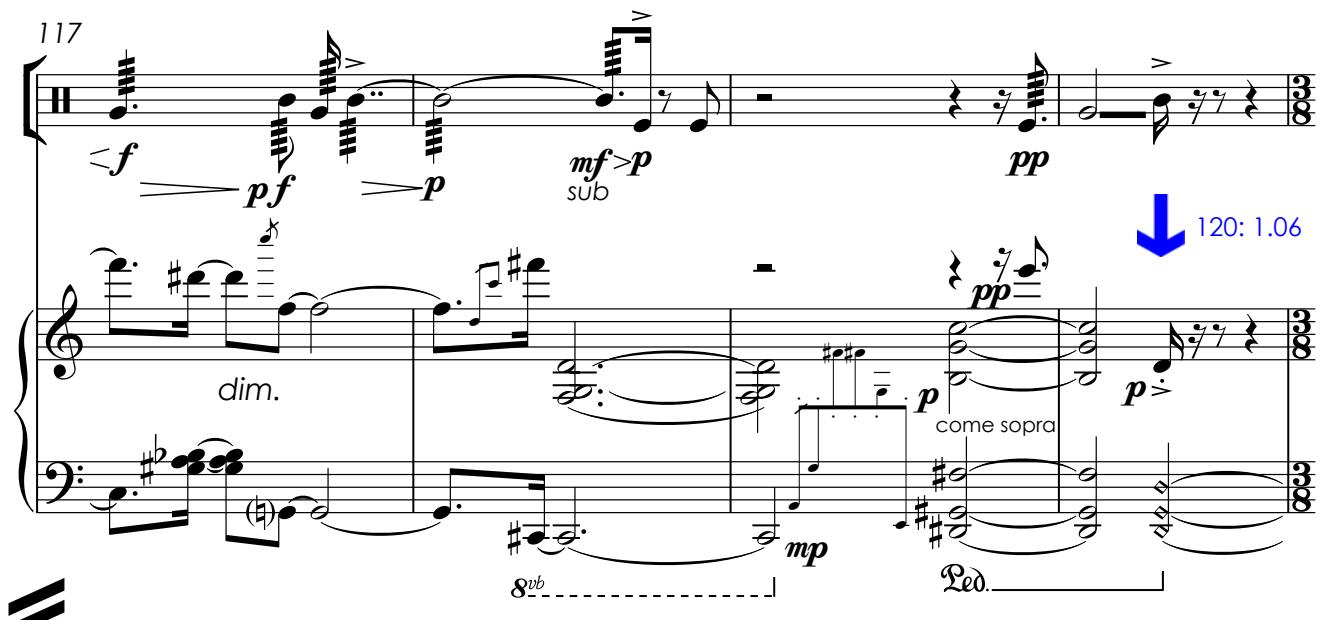
ossia: if stretch too big

pp

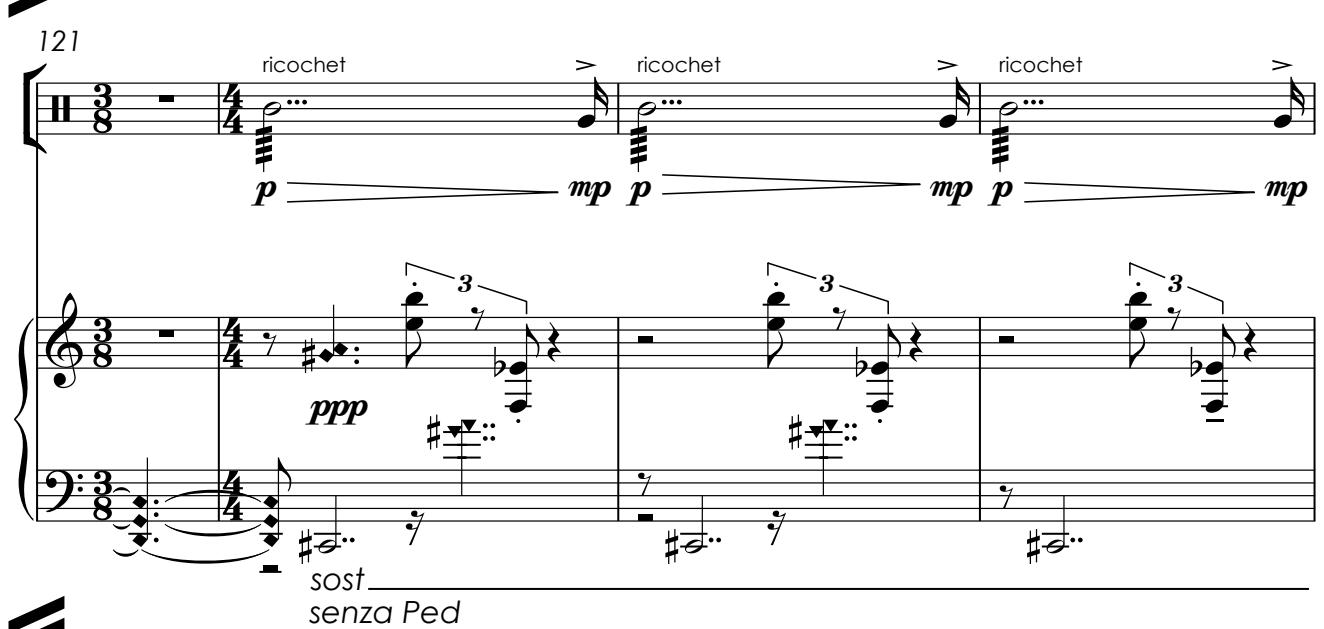
Ped. →

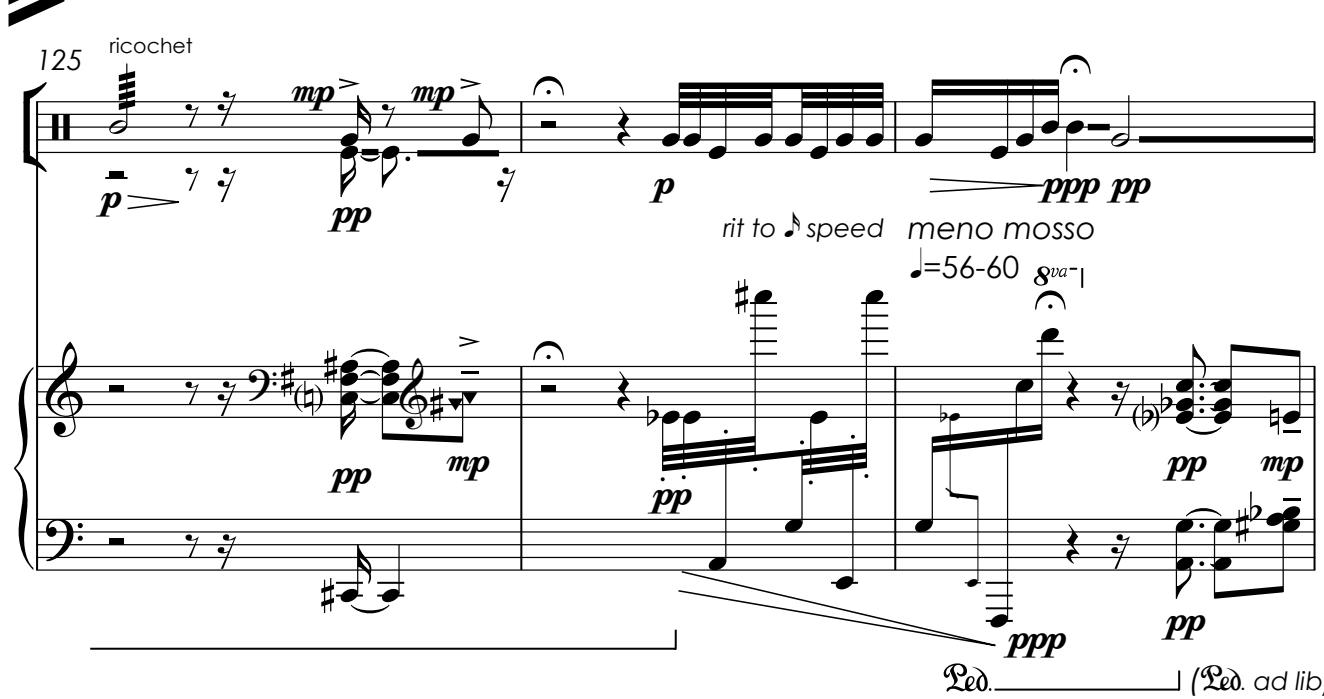
8vb-----

(*Ped. ad lib*)

117 

120: 1.06

121 

125 

(not ricochet!)

128

accel J=72

p pp mf

p# p

mp

p f

p ff

pp sub.

p f

p ff

pp sub.

f

molto pesante
piu mosso J=63

ff

mp

sost

Ped.

132

133

134

135

136

137

138

139

140

141

142

143

Large Tam-Tam
struck with face of small cymbal
(cymbal should sound also)

141

meno mosso
 $\text{♩} = 52-56$

pp sub *8va - 1* *pp*

(senza Ped)

ff sempre

ff

(Ped.) *(Ped. ad lib.)*

144: 1.07 *ff sempre*
piu mosso $\text{♩} = 66-72$



Strike cymbal lid on strings of lowest octave;
+ over note implies holding cymbal on strings
after strike (dead stroke)--but lift again for LH
notes; held notes imply lifting cymbal
immediately after strike

145

(soft beater) *(cymbal)*

f *ff sempre*

148

(held cymbal dampens and changes timbre of notes)

f

149

150

151

152

164

165: 2.06
vary normal strike positions ad lib

(Ped. ad lib.)

168

169: 2.07

(Ped. ad lib.)

171

sost

tc

8vb

uc

mp

pp

8va

p

pp

3

mp

pp

8va

p

pp

3

mp

pp

3

ppp

8vb

tc

ppp

3

uc

ppp

8vb

174

pp

ppp

(8) *tc* *uc* *tc*



178

pp

pp

rit. molto e dim.....

8va

(8) *8va* *pp* *(loco)* *(loco)*

(8)

Musical score page 182. The top staff consists of five measures of piano music, featuring a treble clef, a bass clef, and a common time signature. The bottom staff consists of three measures of string music, featuring a treble clef, a bass clef, and a common time signature. The strings play eighth-note patterns consisting of groups of three. The piano part includes various dynamics like forte, piano, and sforzando, as well as rests and grace notes.

185

..... ♩=40 ***ppppp*** ♩=56

(8)

(8)

mf

pp

mf

UC

Ped. → ad lib.

Large Timpano



188

Large Timpano

E 192: 1.08

188

8va

mp

(loco)

pp

ppp $\overbrace{8^{vb} \text{ tc uc}}$

tc $\overbrace{\text{ppp pp.. pp}}$

192: 1.08

193

Stems down: soft sticks
Stems up: snare drum sticks

193

pp

pp

p

pp

ppp $\overbrace{\text{UC } 8^{vb}}$

$\overbrace{8^{vb}}$

198

198

pppp

pp

pp

p

ppp

pp

ppp $\overbrace{8^{vb}}$

ppp

$\overbrace{8^{vb}}$

201

cresc e accel.....

sim (keep dynamic relationships between notes/chords during cresc)

(8)... 8vb 3 8vb 3 8vb

204

mf p mp p ♩=66 dim e rit

(8)... 8vb 3 8vb 3 8vb

207

pp p pp pp ♩=56

(8)... 8vb 3 8vb 3 8vb

211

215

216: 1.09

218

222

Ped. (Ped. ad lib.)

226

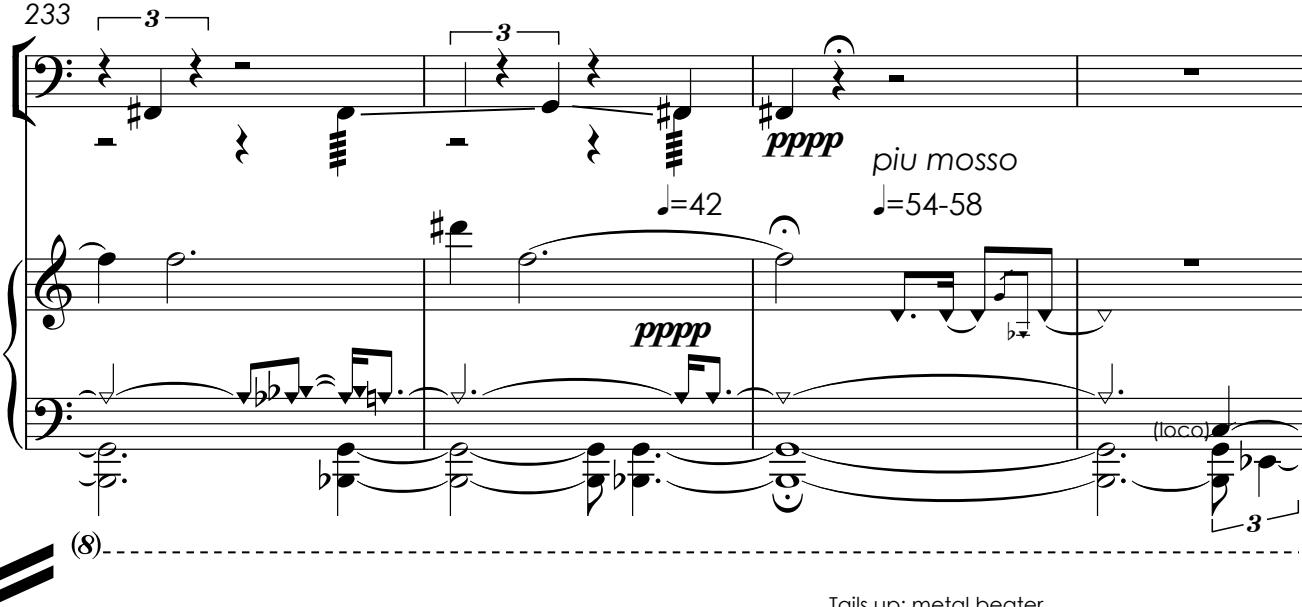
rit e dim.....

* Place hand over all strings from A:3 to E:4 (loco)

(8)

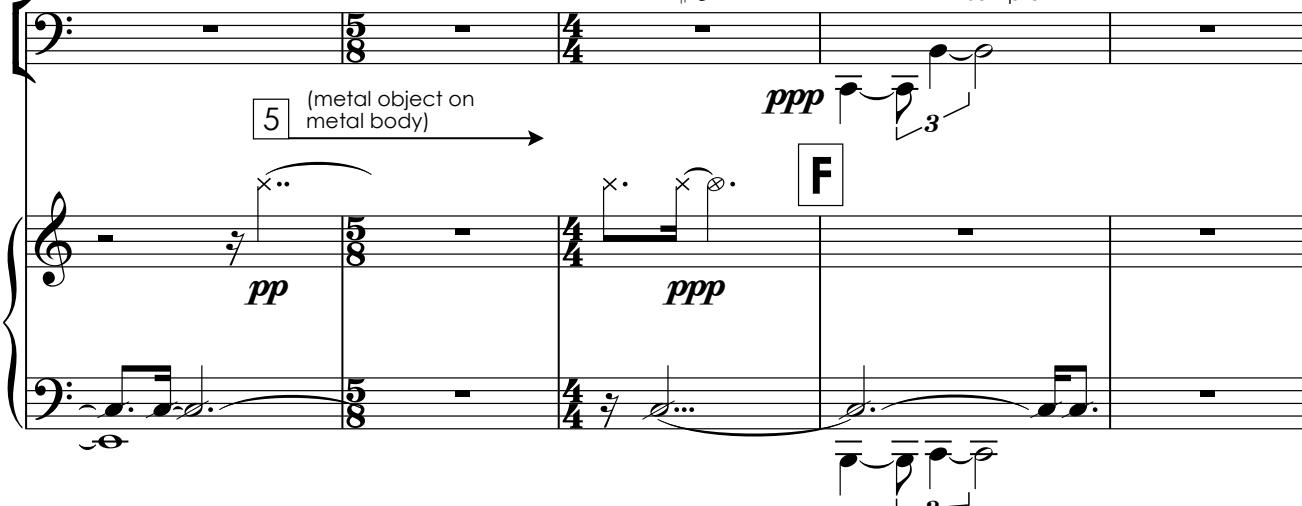
230

(8)

233 

Thai gongs 
Tails up: metal beater
Tails down: soft gong mallet

sempre lv

237 
5 (metal object on metal body) 
F

8vb 

242 
R (unless otherwise directed, always single attacks on rim and face)
(tails down: always normal striking position)
246: 2.08 
(mp) (metal object on 2 metal body)

around
rim
(lv)

247 **pp** **f** **^** **C**

* Strike string with metal object; choose different parts of the string so that the attack will create different pitches if object is held on string (create pitch patterns if desired). + means hold/leave object on string after attack: note will ring on however and removing the object may create an audible sound: both of these are acceptable.

turn cymbal on strings +

turn (=T) +

turn cymbal on strings +

turn and lift (=T&L) +

replace: put cymbal back on strings (R) +

T T + +

poco accel ma non cresc.....

T&L +

T&L +

T&L +

259

(R) (C)

(C)

(R) (C) (C)

(C)

R +

T&L

=

263

(R) (C)

(R)

(R) (C)

(C)

around
rim ↓

mp

+ + +

R T&L R + + +

7 7 7 7

mp mp pp

T&L

=

267

(C)

(R)

(C)

(C)

..... ♩=66-72

pp # ♪ ♪

meno mosso
♩=52-56

+ + +

R + + +

271

(R) (C)

1 (metal strut)

p

T&L

8vb

276

Write "I kill by proxy" on face of gong

Top Staff: Bass clef, 4/4 time. Dynamic: **pp**. Performance instruction: **3 (metal plate)**.

Middle Staff: Treble clef, 4/4 time. Dynamics: **(ord)**, **ppp**. Performance instruction: **flat of hand on strings of lowest octave, avoiding cymbal**.

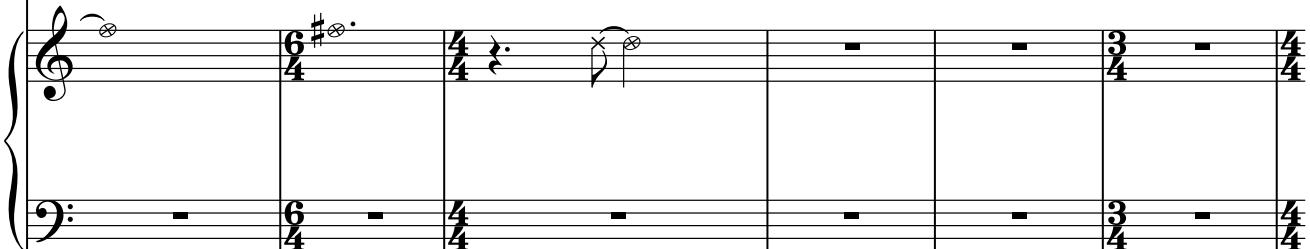
Bottom Staff: Bass clef, 4/4 time. Dynamics: **ppp**. Performance instruction: **R T**.

281 2 large wood blocks
Schwirrbogen

↓ 283: 1.10

286





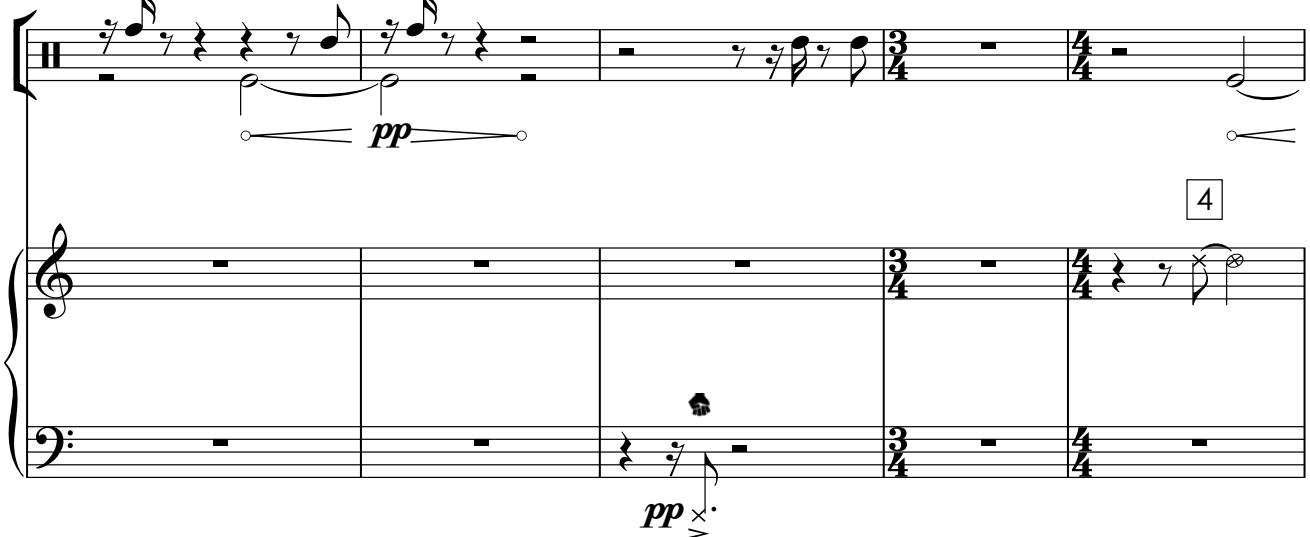


292





296



301 301: 1.11

3 (metal plate) **1** (metal strut)

sffz *ppp*

remove cymbal

meno mosso
J=46-50

306

pizz.

mf

pp (damped)

pp

pp (UC)

311 315: 2.09

mp

pp (ord)

ppp (UC)

316

321

324

rit to slowest possible tempo by end of piece

(8)

329

(metal plate) 3 1 (metal strut)

pp

ppp

(knuckle rap on metal strut) 3

pp \otimes

335

4 (strings near nut)

ppp

ppp \otimes \times \times \times \otimes

340

(sndfiles: tam-tam rolls dying away)

