

Maximilian Marcoll

**Compound No. 4 : *FRICTION MACHINE ALARM SIGNAL CONSTRUCTION***

for violin, viola, percussion, two ad hoc players and electronics

**PRINT FROM PAGE 3**

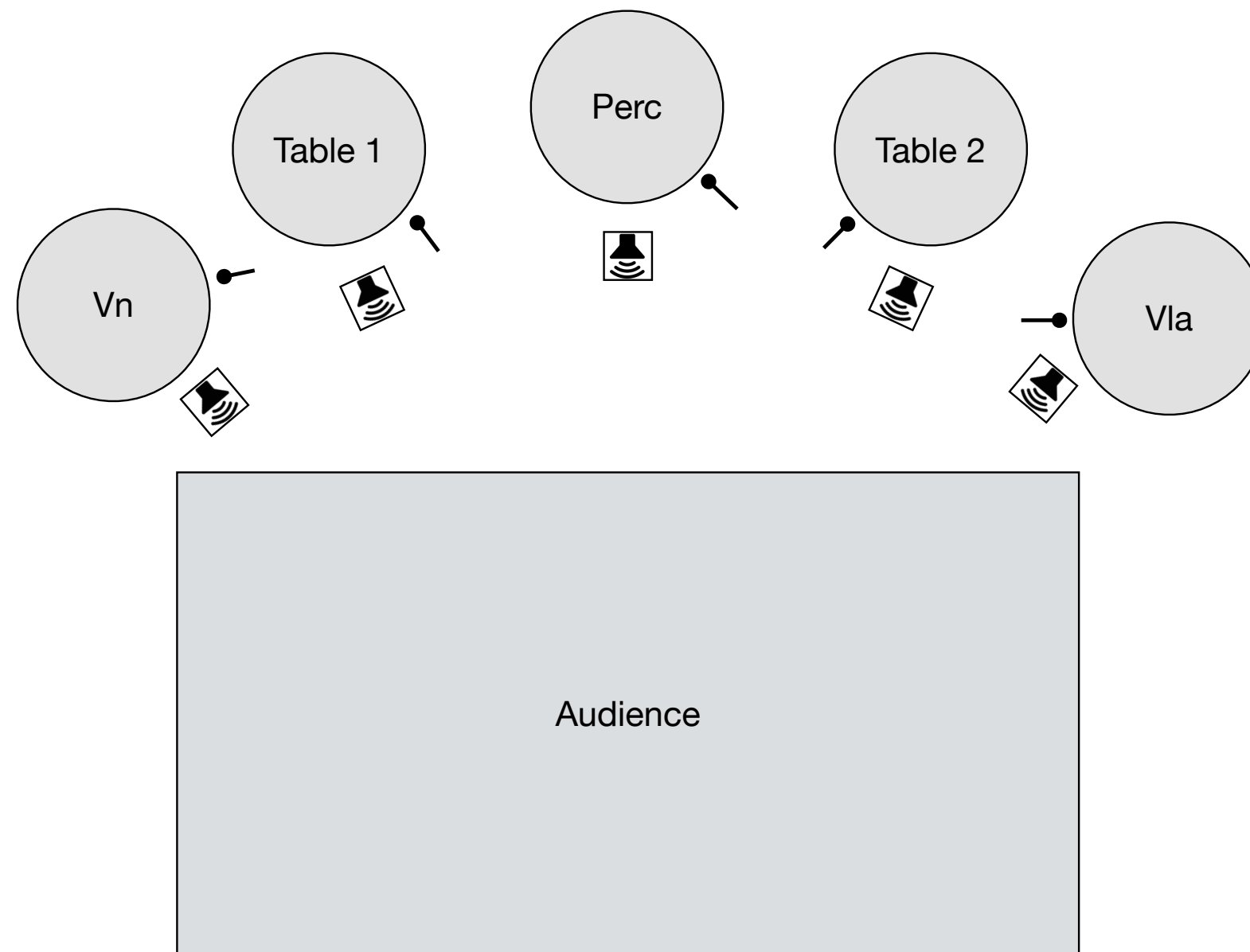
first performance on 27.01.2011 Berlin, Sophiensäle, ensemble mosaik

duration: approx. 14'45''



## SETUP

The players should be placed in a wide circle in front of the audience. A loudspeaker is to be put down on the floor or on a low stand next to or in front of each of the players respective spots. All players should be amplified with microphones. The two ad hoc players should play on small tables with a wood surface. The tables will probably need to be equipped with 2 or 3 microphones each. Hypercardioid microphones are strongly recommended to avoid feedback. (The amplification has to be run on high levels.)



## ANNOTATIONS

### Violin / Viola

Unless otherwise stated all notes are to be played without vibrato. Upon a note's end, the strings are to be damped immediately.

♭: quarter tone down      ♯: quarter tone up

↓: eight tone down      ↑: eight tone up

The scope of all accidentals is limited to their respective notes.

### Tables

There are three different noteheads:

normal      rub/crackle      dead stroke



←: rub to the left      →: rub to the right      ↑: rub away from body      ↓: rub towards body

∨    ▣    these symbols are used for breath-like rubbing and mean: towards body (inhale) and away from body (exhale)

## **1**

The following items are needed:

2 styrofoam plates. approx. 15 cm x 15 cm x 2 cm

Cigarette cellophane packaging

3 crumpled piles of aluminium foil

2 plastic boxes, edge length 7 cm, one filled with glass marbles

a bunch of keys. preferably mounted on a stand but swinging freely, in front of the mic

metal stick (like a triangle stick)

plastic, from a rice or noodle packaging, or similar

## **2**

The following items are needed:

2 styrofoam plates. approx. 15cm x 15cm x 2 cm

Postcard or similar cardboard

metal sheet, approx. 40 cm x 40 cm

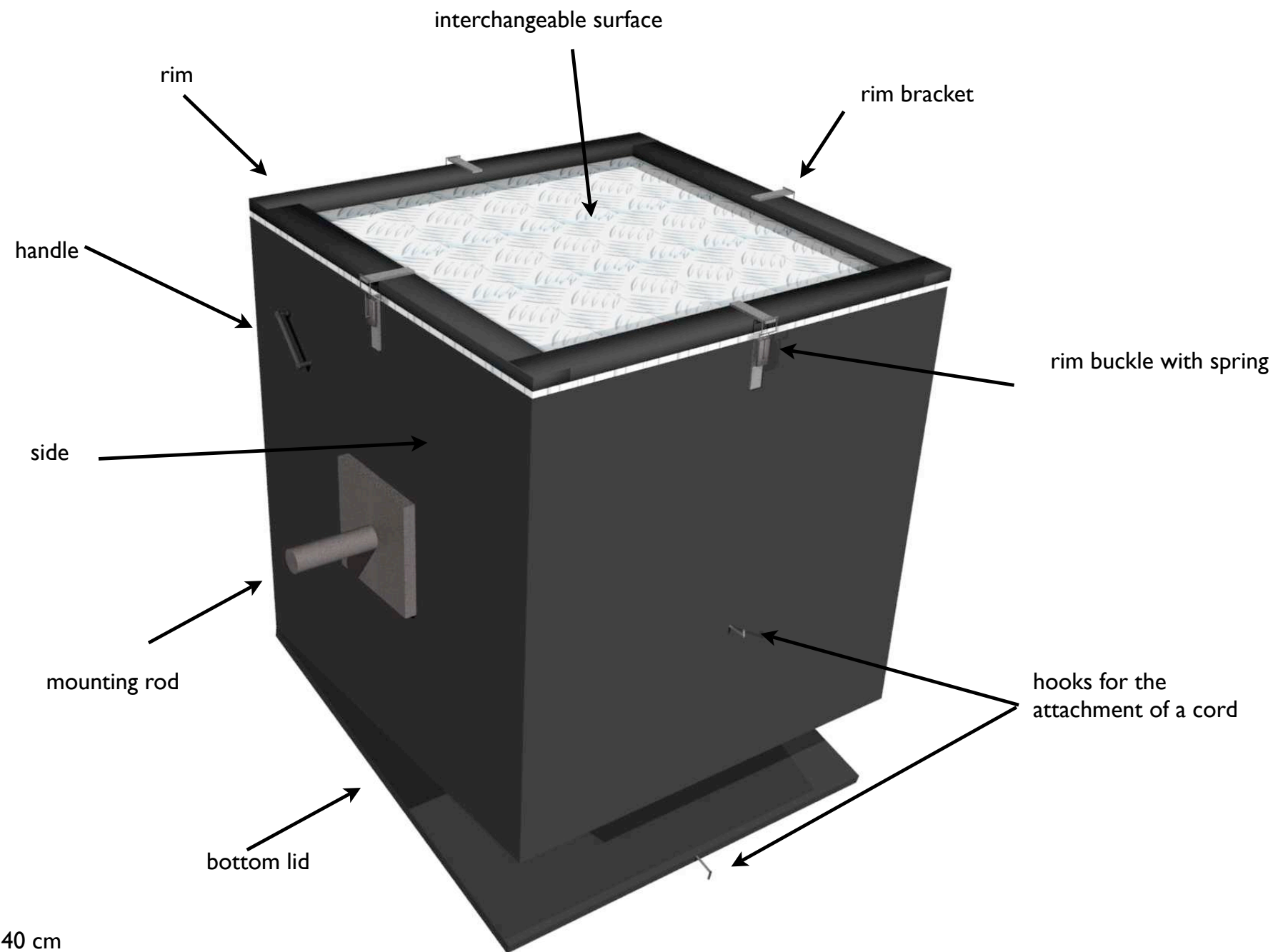
metal grid, approx. 40 cm x 40 cm

metal stick (like a triangle stick)

2 plastic boxes, edge length 7 cm, one filled with glass marbles

## Percussion

The main instrument for the percussionist is a wooden box with an interchangeable surface:

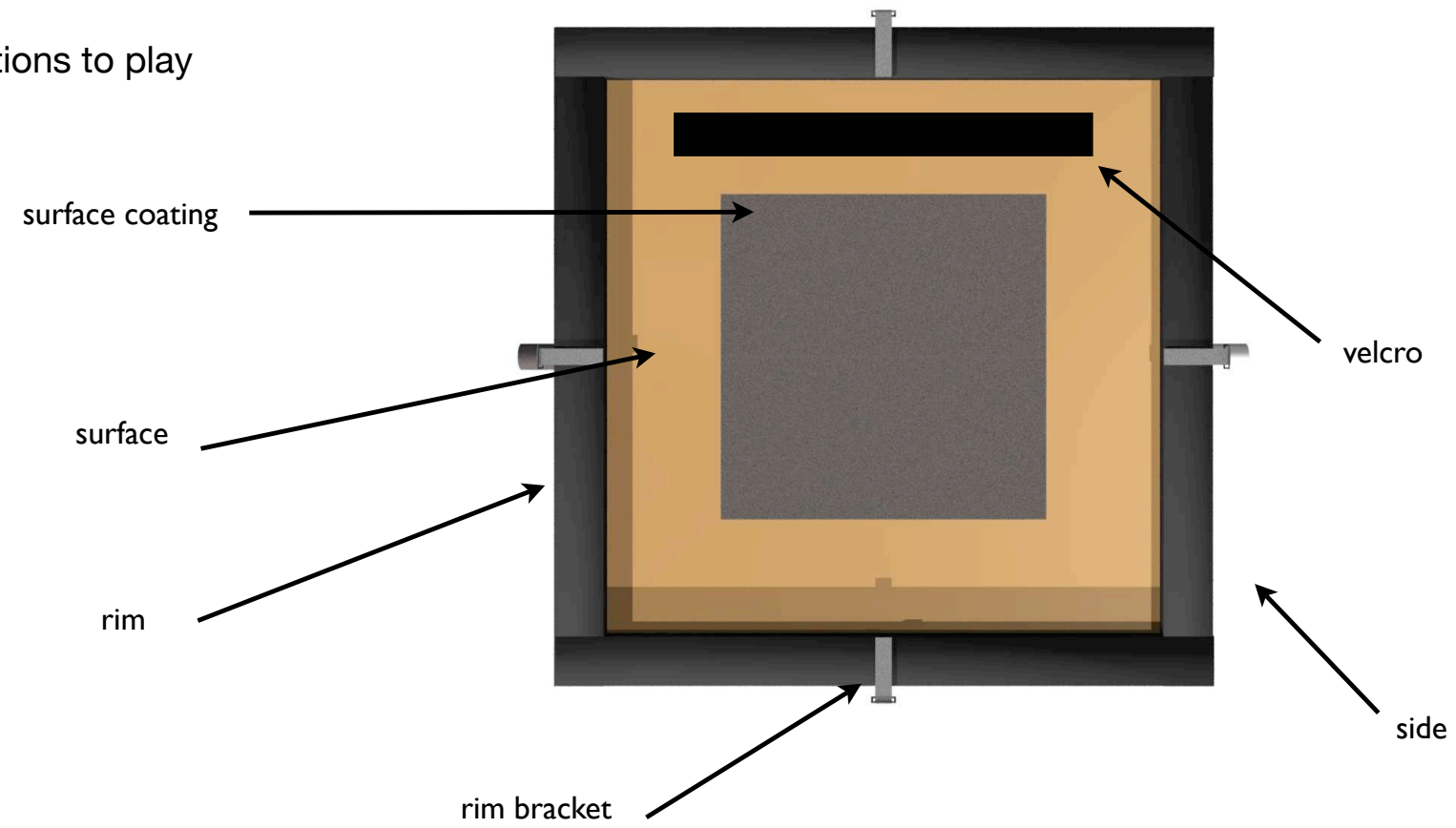


dimensions: 40 cm x 40 cm x 40 cm  
mounting rods: Ø 1.5 cm, length: 6 cm



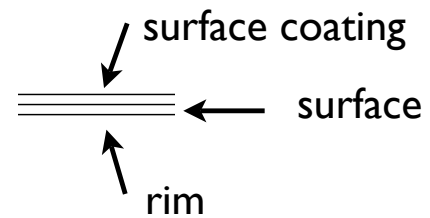
For Compound No.4 only one surface is needed: a wood surface with a piece of sandpaper and a stripe of velcro attached to it:

The score specifies 6 locations to play  
the box:

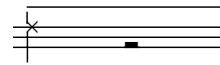


The box should be mounted on two stands using the rods on the sides. The upper surface should be at approximately navel level.

3 of the locations have a line of the system assigned to them, the other three locations are brought into the system whenever needed:



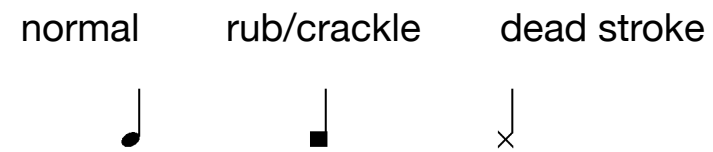
If an item is placed down onto the box (onto the upper surface), a new location of play is created. Accordingly, a new line is added on top of the staff:



The placing and removing of objects to / from the box is indicated by the following symbols:



There are three different noteheads:



←: rub to the left      →: rub to the right      ↑: rub away from body      ↓: rub towards body

- additional items are:  
plastic box, with cap, edge length 7 cm  
Cigarette cellophane packaging, clamped under the rim of the box  
2 coins (50c)  
sand paper block  
wood ball, massive, Ø 5 cm  
stone (small, ca. 2cm, very hard)





# Compound No. 4: *FRICTION MACHINE ALARM SIGNAL CONSTRUCTION*

Maximilian Marcoll, 2010

The image displays a musical score for five instruments: Violin (Vn.), Viola (Vla.), Percussion (Perc.), Table 1, and Table 2. Each instrument's part is represented by a set of two horizontal lines. The Violin and Viola parts include a treble clef and a bass clef, respectively. A bracket on the left side groups these five parts together. Each part is marked with a duration of 32" at the top center. A box labeled "TAPE: Backyard Silence" is positioned at the beginning of each part, with a horizontal line extending across the entire 32-second duration. The notation is minimalist, focusing on the timing and duration of the sound rather than specific pitches or rhythms.

2

$\text{♩} = 120$   
 $\frac{4}{4}$

Vn.

28"

Vla.

28"

$\frac{4}{4}$

Perc.

put plastic box (bottom up) half on rim, half on surface,  
place plastic cap half on plastic box, half on surface

28"

$\frac{4}{4}$

Table 1

$\text{♩} = 110$   
rub styrofoam surfaces.  
accent at vertex  
*pp*  
(132 times)

28"

$\frac{4}{4}$

Table 2

28"

styrofoam surfaces  
 $\frac{4}{4}$

*mp* [SB] *mf* *mp* *p* *mp*

The notation for Table 2 consists of a single staff with a treble clef. It begins with a  $\frac{4}{4}$  time signature. The first measure contains a quarter note with an accent (^) and a triplet of eighth notes. The second measure contains a quarter note with an accent (^) and a triplet of eighth notes. The third measure contains a quarter note with an accent (^) and a triplet of eighth notes. The fourth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The fifth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The sixth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The seventh measure contains a quarter note with an accent (^) and a triplet of eighth notes. The eighth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The ninth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The tenth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The eleventh measure contains a quarter note with an accent (^) and a triplet of eighth notes. The twelfth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The thirteenth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The fourteenth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The fifteenth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The sixteenth measure contains a quarter note with an accent (^) and a triplet of eighth notes. The notation is repeated across the staff.

22

Vn.

Vla.

Perc.

[KYPs]

cellophane: *mf*

coin *mp*

fist *p*

side: *mf*

palm 3 *p*

knuckle *mf*

knuckle *p*

plastic box  
move (push) out from under the cap,  
so the cap falls onto the surface

Table 1

Table 2

*p* *mp* *mf* *mp* *mf* *mp* *mf* *mp* *f* *mp* *f* *mp* *mf*

31

Vn.

15-----  
*p* sempre sim.

Vla.

15-----  
*p* sempre sim.

Perc.

*mf* fingernail *mf* plastic cap *mf* *pp* knuckle *mf* (cap) flat, with edge *mf* (edge) *mff* plastic cap *f* *p* *mf* bracket: *mf* bracket: *pp* *p* [LBFT]

Table 1

*f* *mf* *f* hammering SYNC

Table 2

*mp* *f* *mp* *mf* *f* *mf* *ff* *mf* *ff* *mf* *f* *ffff* *f* *mf* *f* hammering SYNC



39

Vn.

(15)

Vla.

(15)

Perc.

Table 1

*mf* *f* *ff* *f* *ff* *mf* *ff* *mf* *f* *ff* *f* *ff* *mf*

Table 2

*mf* *f* *ff* *f* *ff* *mf* *ff* *mf* *f* *ff* *f* *ff* *mf*

45

Vn.

(15)

Vla.

(15)

Perc.

Table 1

Table 2

51

Vn.

(15)

Musical staff for Violin (Vn.) showing a melodic line with slurs and accidentals.

Vla.

(15)

Musical staff for Viola (Vla.) showing a melodic line with slurs and accidentals.

Perc.

Musical staff for Percussion (Perc.) showing rhythmic patterns with triplets and a sextuplet.

Table 1

Musical staff for Table 1 showing rhythmic patterns with triplets and dynamic markings: *f*, *mf*, *f*, *mf*, *f mf*, *f*, *mf*, *f*, *mf p*, *f*, *mf*, *f*.

Table 2

Musical staff for Table 2 showing rhythmic patterns with triplets and dynamic markings: *f*, *mf*, *f*, *mf*, *f mf*, *f*, *mf*, *f*, *mf p*, *f*, *mf*, *f*.

58 (15)

Vn.

Vla.

Perc.

Table 1

Table 2

The musical score consists of six staves. The first two staves are for Violin (Vn.) and Viola (Vla.), both in treble clef with a key signature of one sharp (F#). The third staff is for Percussion (Perc.), featuring a complex rhythmic pattern with many triplets. The fourth and fifth staves are for Table 1 and Table 2, respectively, both in treble clef. These two parts play a similar rhythmic pattern with dynamic markings: *mf*, *f*, *ff*, *f*, *ff*, *f*, *mf*, *f*, *ff*, *f*, *mf*, *f*, *ff*, *f*, *mf*. The sixth staff is empty. The score is divided into measures by vertical bar lines, with a dashed line at the top of the first two staves indicating a section boundary.

64

(15)

Vn.

Vla.

Perc.

Table 1

Table 2

The musical score consists of five staves. The top two staves, Vn. and Vla., are in treble clef and contain melodic lines with slurs and accents. The Perc. staff features a complex rhythmic pattern of eighth notes with triplets. The Table 1 and Table 2 staves are in bass clef and feature a rhythmic pattern of eighth notes with triplets and dynamic markings. A dashed line is present above the Vn. and Vla. staves. The score is divided into measures by vertical bar lines.

70

Vn.

(15)

Violin staff with musical notation, including a dashed line above the staff.

Vla.

(15)

Viola staff with musical notation, including a dashed line above the staff.

Perc.

Percussion staff with musical notation featuring triplets.

Table 1

Table 1 staff with musical notation and dynamic markings: *p*, *f*, *mf*, *f*, *ff*, *mf*, *p*, *mf*, *mf*, *f*, *mf*, *ff*.

Table 2

Table 2 staff with musical notation and dynamic markings: *p*, *f*, *mf*, *f*, *ff*, *mf*, *p*, *mf*, *mf*, *f*, *mf*, *ff*.

77

(15)

Vn.

Musical staff for Violin (Vn.). The staff contains a melodic line with eighth and sixteenth notes, including a triplet of eighth notes in the fourth measure. A dashed line is drawn above the staff.

Vla.

Musical staff for Viola (Vla.). The staff contains a melodic line with eighth and sixteenth notes, including a triplet of eighth notes in the third measure. A dashed line is drawn above the staff.

Perc.

Musical staff for Percussion (Perc.). The staff contains a rhythmic pattern of eighth notes with triplet markings above the notes.

Table 1

Musical staff for Table 1. The staff contains a rhythmic pattern of eighth notes with dynamic markings: *mf*, *ff*, *mf*, *ff*, *f*, *mf*, *f*, *ff*. It includes a triplet of eighth notes in the second measure and a triplet of eighth notes in the fourth measure. A horizontal line is drawn below the staff.

Table 2

Musical staff for Table 2. The staff contains a rhythmic pattern of eighth notes with dynamic markings: *mf*, *ff*, *mf*, *ff*, *f*, *mf*, *f*, *ff*. It includes a triplet of eighth notes in the second measure and a triplet of eighth notes in the fourth measure. A horizontal line is drawn below the staff.

83

(15)

Vn.

Musical staff for Violin (Vn.) in treble clef. The staff contains six measures of music, each starting with a triplet of eighth notes. The notes are: G4, A4, B4, C5, B4, A4, G4. The dynamics are consistent throughout.

Vla.

Musical staff for Viola (Vla.) in treble clef. The staff contains six measures of music, each starting with a triplet of eighth notes. The notes are: G4, A4, B4, C5, B4, A4, G4. The dynamics are consistent throughout.

Perc.

Musical staff for Percussion (Perc.) in treble clef. The staff contains six measures of music, each starting with a triplet of eighth notes. The notes are: G4, A4, B4, C5, B4, A4, G4. The dynamics are consistent throughout.

Table 1

Musical staff for Table 1 in treble clef. The staff contains six measures of music, each starting with a triplet of eighth notes. The notes are: G4, A4, B4, C5, B4, A4, G4. The dynamics are: *f*, *f*, *mf*, *f*, *p*, *mf*, *ff*, *f*, *mf*. There are rests in the 4th and 5th measures.

Table 2

Musical staff for Table 2 in treble clef. The staff contains six measures of music, each starting with a triplet of eighth notes. The notes are: G4, A4, B4, C5, B4, A4, G4. The dynamics are: *f*, *f*, *mf*, *f*, *p*, *mf*, *ff*, *f*, *mf*. There are rests in the 4th and 5th measures.



89

(15)

Vn.

Musical notation for Violin (Vn.) in treble clef. The staff contains six measures of music. The first measure has a measure rest followed by a triplet of eighth notes. The subsequent measures contain eighth and sixteenth notes, some with slurs and accents. The final measure has a triplet of eighth notes. A dashed line is drawn above the staff.

Vla.

Musical notation for Viola (Vla.) in treble clef. The staff contains six measures of music. The first measure has a measure rest followed by a triplet of eighth notes. The subsequent measures contain eighth and sixteenth notes, some with slurs and accents. The final measure has a triplet of eighth notes. A dashed line is drawn above the staff.

Perc.

Musical notation for Percussion (Perc.) in a standard percussion clef. The staff contains six measures of music. The first measure has a measure rest followed by a triplet of eighth notes. The subsequent measures contain eighth and sixteenth notes, some with slurs and accents. The final measure has a triplet of eighth notes.

Table 1

Musical notation for Table 1. The staff contains six measures of music. The first measure has a measure rest followed by a triplet of eighth notes. The subsequent measures contain eighth and sixteenth notes, some with slurs and accents. The final measure has a triplet of eighth notes. Dynamic markings *mf*, *p*, *mf*, *f*, *mf*, *f*, *mf*, *ff*, *f*, and *mf* are placed below the notes. Above the staff, there are two triplet markings over eighth notes.

Table 2

Musical notation for Table 2. The staff contains six measures of music. The first measure has a measure rest followed by a triplet of eighth notes. The subsequent measures contain eighth and sixteenth notes, some with slurs and accents. The final measure has a triplet of eighth notes. Dynamic markings *mf*, *p*, *mf*, *f*, *mf*, *f*, *mf*, *ff*, *f*, and *mf* are placed below the notes.

95

Vn.

(15)  $\frac{3}{4}$   $\frac{4}{4}$  [ice\_rstrnt09]  $p$   $mp$  cresc.  $mf$   $f$   
ice bord restaurant  
5.10.2009 SYNC

Vla.

(15)  $\frac{3}{4}$   $\frac{4}{4}$  [ice\_rstrnt09] pizz. close to left hand  $mf$  arco  $pp$   $p$   $f$   
ice bord restaurant  
5.10.2009 SYNC

Perc.

$\frac{3}{4}$  coin away  $\frac{3}{4}$  [ice\_rstrnt09]  $\frac{4}{4}$  sand paper block  $p$   $f$  fist (bass) palm side:  $ff$   $ff$  silently lift plastic box  
ice bord restaurant  
5.10.2009 SYNC

Table 1

$\frac{3}{4}$   $\frac{4}{4}$  [ice\_rstrnt09]  $mf$   $f$   $mf$   $f$   $mf$   $f$   $p$   $mf$   $f$   $mf$   $f$  cellophane  $p$  fingernails on plastic box  $p$  smash aluminium foil pile  $ff$  touch mic (membrane)  $mf$   
ice bord restaurant  
5.10.2009 SYNC

Table 2

$\frac{3}{4}$   $\frac{4}{4}$  [ice\_rstrnt09]  $mf$   $f$   $mf$   $f$   $mf$   $f$   $p$   $mf$   $f$   $mf$   $f$  fold postcard  $p$  rub hands  $ff$ (action) drop sheet on grid  $ff$   
ice bord restaurant  
5.10.2009 SYNC

101 (8) *sempre sim.*

Vn. *f*

Vla. *f* *sempre sim.*

Perc.

wind clipping noise

Table 1

Table 2 *p* *sempre* rub styrofoam surfaces.

107 (8)

Vn.

Vla.

Perc.

Table 1

Table 2

This musical score page contains six staves for measures 107 through 112. The Violin (Vn.) and Viola (Vla.) staves feature a melodic line with eighth-note patterns and slurs, with a measure rest in measure 110. The Percussion (Perc.) staff shows a steady eighth-note accompaniment. Table 1 and Table 2 provide rhythmic accompaniment with eighth-note patterns and rests. A box containing the number '107' and a circled '8' is located at the top left of the first staff.

113

Vn.

(8)

Violin part starting at measure 113. It features a melodic line with eighth notes and quarter notes, transitioning through 2/4, 3/4, and 4/4 time signatures. The piece concludes with a 4/15 time signature. Dynamics include *p* sub. (non cresc.) and *(sempre sim.)*.

Vla.

(8)

Viola part starting at measure 113. It features a melodic line with eighth notes and quarter notes, transitioning through 2/4, 3/4, and 4/4 time signatures. The piece concludes with a 4/15 time signature. Dynamics include *p* sub. (non cresc.) and *(sempre sim.)*.

Perc.

Percussion part starting at measure 113. It includes various rhythmic patterns and textures. Instruments used include sand paper block, knuckle, and plastic box upright, with edge. Dynamics range from *p* to *mf*.

Table 1

Table 1 part starting at measure 113. It includes various rhythmic patterns and textures. Instruments used include corpus, fingernails on plastic box, fist on table, move foil on table, cellophane, and fist. Dynamics range from *p* to *mf*.

Table 2

Table 2 part starting at measure 113. It includes various rhythmic patterns and textures. Instruments used include fist on table, rub hands, and plastic box dampened hit with metal stick. Dynamics range from *p* to *ff*.

ice bord restaurant  
19.11.2008 SYNC

hammering SYNC

hammering SYNC

119

Vn.

Vla.

Perc.

Table 1

Table 2

Musical score for measures 119-124. The score is divided into five systems: Vn., Vla., Perc., Table 1, and Table 2. Each system contains six measures. The Vn. and Vla. staves show melodic lines with various accidentals and dynamics. The Perc. staff includes rhythmic patterns with dynamics *p*, *mp*, *p*, *mf*, *p*, and *pp*, along with performance instructions like "palm", "side:", "knuckle", "sand paper block", "plastic box", and "fingertip". The Table 1 and Table 2 staves feature complex rhythmic patterns with dynamics *p*, *mf*, *pp*, *p*, *ff*, *pp*, *p*, *mf*, *p*, *mf*, *pp*, *p*, and *p*, and performance instructions such as "fingernails on plastic box", "fist", "move foil on table", "cellophane", "rub hands", and "plastic box".

125

Vn. (15)

Vla. (15)

Perc.

plastic box

mp p p

bracket: sand paper block

fist p

NEW: woodball

pp mp ppp p

finger tip

Table 1

cellophane

pp p f

finger nails on plastic box

fist

move foil on table

p p

finger nails on plastic box

fist

cellophane

pp f pp

finger nails on plastic box

cellophane

move foil on table

p p

finger nails on plastic box

cellophane

pp

Table 2

plastic box

fist

rub hands

ff mf

plastic box

fist

mf f

rub hands

ff mf

plastic box

fist

mf p f ff

fist

mf

131

Vn. (15)

Vla. (15)

Perc. wood ball mp, sand paper block p, sand paper block, sand paper block (with momentum) mp, f, NEW: plastic cap, plastic box p, mf, sand paper block, plastic cap mf

Table 1 move foil on table p, fingernails on plastic box p, cellophane pp, move foil on table p, cellophane pp, move foil on table p, fingernails on plastic box p, cellophane pp, move foil on table p, fingernails on plastic box p

Table 2 plastic box mf, rub hands ff, plastic box mf, rub hands ff, plastic box mf, rub hands ff

2/4



137 (15)  $\frac{2}{4}$   $\frac{3}{4}$   $\frac{4}{4}$  gliss. continuous (sempre sim.)

Vn.  $pp < p$  crescendo poco a poco (but always start pp!)

(15)  $\frac{2}{4}$   $\frac{3}{4}$   $\frac{4}{4}$  gliss. continuous (sempre sim.)

Vla.  $pp < p$  crescendo poco a poco (but always start pp!)

Perc.  $\frac{2}{4}$  sand paper block  $\frac{3}{4}$  plastic box  $\frac{4}{4}$  plastic cap away take up sand paper block

wind clipping noise windowed SYNC

Table 1  $\frac{2}{4}$  move foil on table  $\frac{3}{4}$  cellophane  $\frac{4}{4}$  fingernails on plastic box

fist fingernails on plastic box fist cellophane fingernails on plastic box fist

Table 2  $\frac{2}{4}$  rub hands  $\frac{3}{4}$  plastic box  $\frac{4}{4}$  rub hands

fist fist fist plastic box fist fist

143

(15)

Vn. *pp* < *mp* *pp* < *mf*

Vla. *pp* < *mp* *pp* < *mf*

Perc. *f* *ppp* *f* *mf* *f* *p* *f* *ppp*

Table 1 *pp* *f* *mf* *p* *ff* *pp* *p* *ff* *p* *mf* *p* *mf* *pp* *p*

Table 2 *mf* *ff* *mf* *f* *ff* *f* *ff* *mf* *ff* *mf* *mf* *mf* *ff* *f* *fff* *mf* *mf*

Annotations: cellophane, fist, fingernails on plastic box, move foil on table, rub hands, plastic box dampened hit with metal stick.

149

Vn. (15)

*pp < f*

Vla. (15)

*pp < f*

Perc.

*mf*, *p*, *mf*, *p < f*, *f*

non cresc. !

Table 1

*ff*, *mf*, *p*, *pp*, *p*, *f*, *p*, *f*, *p*, *pp*, *mf*, *p*, *pp*

move foil on table, cellophane, fist, fingernails on plastic box

Table 2

*mf*, *ff*, *f*, *mf*, *ff*, *p*, *ff*, *f*, *mf*, *ff*

fist, plastic box, rub hands

155 (15)

Vn. *pp* < *ff* *ppp* [ice\_rstrnt09] *tasto*

Vla. *pp* < *ff* [ice\_rstrnt09]

Perc. *p* *mf* *f* *p* *f* *ff* *mf* sand paper block mic: cellophane: plastic box fist (bass) palm side: plastic box fist

Table 1 fingernails on plastic box *p* *p* *pp* *p* *p* *ff* *p* *pp* move foil on table cellophane cellophane fingernails on plastic box smash aluminium foil pile touch mic [ice\_rstrnt09] move foil on table cellophane

Table 2 plastic box *mf* *ff* *p* *ff* *ff* *mf* rub hands fist fold postcard rub hands drop sheet on grid [ice\_rstrnt09] plastic box dampened hit with metal stick

ice bord restaurant 5.10.2009 SYNC

161

Vn.

close to left hand

pizz. *p*

tap, m.v. *mf* (result)

pizz. *p*

tap, m.v. *mf*

pizz. *p*

Musical notation for Violin (Vn.) showing a sequence of notes with various articulations and dynamics. It includes pizzicato (pizz.) and tapping (tap, m.v.) techniques. Dynamics range from piano (p) to mezzo-forte (mf). There are also triplet markings.

Vla.

pizz. molto secco *p*

almost entirely dampened c# only as a colour: molto sul tasto, minimal pressure from both hands

arco *pp*

bat., no pitch, strictly vertical!

sim. arco *pp*

bat. *pp*

arco *pp*

bat. *pp*

arco *pp*

Musical notation for Viola (Vla.) featuring pizzicato (pizz. molto secco) and arco playing. It includes specific performance instructions like 'almost entirely dampened c# only as a colour: molto sul tasto, minimal pressure from both hands' and 'bat., no pitch, strictly vertical!'. Dynamics are primarily piano (p) and pianissimo (pp).

Perc.

fist *ff*

knuckle *mf*

sand paper block *p*

wood ball *mf*

wood ball *mf*

sand paper block *p*

knuckle → *p*

(move on coating)

Musical notation for Percussion (Perc.) with various sound effects and dynamics. Techniques include fist, knuckle, sand paper block, and wood ball. Dynamics range from fortissimo (ff) to piano (p).

Table 1

keys (tip from the side) *mf*

fist *p*

rub styrofoam surfaces. accent at vertex *pp*

*pp*

Musical notation for Table 1, including a tempo marking of quarter note = 110. Techniques include keys (tip from the side), fist, and rubbing styrofoam surfaces. Dynamics range from fortissimo (ff) to pianissimo (pp).

Table 2

fist on sheet on grid *f*

rub hands *p*

Musical notation for Table 2, featuring 'fist on sheet on grid' and 'rub hands' techniques. Dynamics include fortissimo (f) and piano (p).

168

Vn.

tap, m.v. *mf* pizz. *p* tap, m.v. *mf* pizz. *p* tap, m.v. *mf* pizz. *p*

Violin staff with notes, rests, and performance markings. The staff is divided into six measures. The first measure has a note with 'tap, m.v.' and '*mf*'. The second measure has a triplet of notes with 'pizz.' and '*p*'. The third measure has a note with 'tap, m.v.' and '*mf*'. The fourth measure has a triplet of notes with 'pizz.' and '*p*'. The fifth measure has a note with 'tap, m.v.' and '*mf*'. The sixth measure has a triplet of notes with 'pizz.' and '*p*'. A dashed line with an '8' is above the staff, indicating an eighth note.

Vla.

bat. arco bat. arco bat. arco

Viola staff with notes, rests, and performance markings. The staff is divided into six measures. The first measure has a triplet of notes with 'bat.' and 'arco'. The second measure has a triplet of notes with 'bat.' and 'arco'. The third measure has a triplet of notes with 'bat.' and 'arco'. The fourth measure has a triplet of notes with 'bat.' and 'arco'. The fifth measure has a triplet of notes with 'bat.' and 'arco'. The sixth measure has a triplet of notes with 'bat.' and 'arco'. A dashed line with an '8' is above the staff, indicating an eighth note.

Perc.

wood ball *mf* sand paper block *p* wood ball *mf* sand paper block *p* sand paper block *mf* wood ball *mf* sand paper block *p*

Percussion staff with notes, rests, and performance markings. The staff is divided into six measures. The first measure has a note with 'wood ball' and '*mf*'. The second measure has a note with 'sand paper block' and '*p*'. The third measure has a note with 'wood ball' and '*mf*'. The fourth measure has a note with 'sand paper block' and '*p*'. The fifth measure has a note with 'sand paper block' and '*mf*'. The sixth measure has a note with 'wood ball' and '*mf*'. A dashed line with an '8' is above the staff, indicating an eighth note.

Table 1

Empty table staff with two rows and six columns.

Table 2

V V V V V V

Table 2 staff with notes and performance markings. The staff is divided into six measures. Each measure has a note with a 'V' above it.

175

Vn.

Violin staff notation. Measures 1-2: triplet eighth notes. Measure 3: *mf*, tap, m.v. Measure 4: *p*, pizz., triplet eighth notes. Measures 5-6: triplet eighth notes. Measure 7: *mf*, tap, m.v. Measure 8: *p*, pizz., triplet eighth notes.

Vla.

Viola staff notation. Measures 1-2: triplet eighth notes with  $\sharp^*$  and  $\sharp^*$ . Measure 3: *mf*, bat., triplet eighth notes. Measure 4: *p*, arco, triplet eighth notes. Measures 5-6: triplet eighth notes. Measure 7: *mf*, bat., triplet eighth notes. Measure 8: *p*, arco, triplet eighth notes.

Perc.

Percussion staff notation. Measure 1: sand paper block, triplet eighth notes. Measure 2: sand paper block. Measure 3: wood ball, *mf*, triplet eighth notes. Measure 4: *p*, triplet eighth notes. Measure 5: sand paper block, triplet eighth notes. Measure 6: sand paper block, triplet eighth notes. Measure 7: wood ball, *mf*, triplet eighth notes. Measure 8: sand paper block, *p*, triplet eighth notes.

Table 1

Empty staff for Table 1.

Table 2

Staff for Table 2. Measures 1-2: *mf*, V, triplet eighth notes. Measure 3: *p*, V, triplet eighth notes. Measure 4: *mf*, V, triplet eighth notes. Measure 5: *p*, V, triplet eighth notes. Measure 6: *mf*, V, triplet eighth notes. Measure 7: *p*, V, triplet eighth notes.

182

Vn.

8

mf tap, m.v. p mp

[ice\_rstrnt09] arco

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Vla.

arco

mf bat. pizz. frog

[ice\_rstrnt09] close to left hand

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Perc.

sand paper block

mf wood ball p fist (bass) sand paper block

[ice\_rstrnt09] cellophane: f

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Table 1

[ice\_rstrnt09] cellophane p

fingernails on plastic box p

move foil on table 3 p

cellophane 3 pp

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Table 2

[ice\_rstrnt09] fold postcard p

rub hands 3 ff

plastic box dampened hit with metal stick mf

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189

The musical score is organized into five staves. The first staff, labeled 'Vn.', contains six measures of whole rests. The second staff, labeled 'Vla.', features a melodic line with six measures of pizzicato notes, each marked with a 'V' and a 'pizz.' instruction. The third staff, labeled 'Perc.', shows rhythmic patterns with six measures of triplets. The fourth staff, labeled 'Table 1', contains six measures of complex textures with various articulations: fingernails on plastic box, cellophane, move foil on table, and triplets, with dynamic markings ranging from *pp* to *p*. The fifth staff, labeled 'Table 2', contains six measures of textures including rub hands and plastic box, with dynamic markings ranging from *mf* to *ff*.

196

Vn.

Vla.

Perc.

Table 1

Table 2

The musical score for measures 196-202 is organized into five staves. The Violin (Vn.) staff is mostly silent, with rests. The Viola (Vla.) staff features a rhythmic pattern of eighth notes, with 'pizz.' (pizzicato) markings above the notes. The Percussion (Perc.) staff has rests, with occasional triplet eighth notes. Table 1 includes various percussive techniques: 'move foil on table' (triplets of eighth notes), 'fingernails on plastic box' (triplets of eighth notes), and 'cellophane' (triplets of eighth notes). Dynamics range from *p* to *pp*. Table 2 includes 'plastic box' (single notes) and 'rub hands' (triplets of eighth notes). Dynamics range from *mf* to *ff*.

203

Vn.

Vla.

Perc.

Table 1

Table 2

The musical score for measures 203-209 is organized into five staves. The Vn. staff contains whole rests. The Vla. staff features a rhythmic pattern of eighth notes with accents, marked with 'pizz.' and 'V' symbols. The Perc. staff has a simple rhythmic accompaniment with triplet markings. Table 1 includes various percussive techniques such as 'move foil on table', 'cellophane', and 'fingernails on plastic box', with dynamic markings ranging from *p* to *pp*. Table 2 features 'plastic box' and 'rub hands' techniques, with dynamic markings ranging from *mf* to *ff*. The score is written in a single system with a common time signature.

210

Vn.

[ice\_rstrnt09] *p mp cresc. mf f* *pp* *mf*

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tasto

pizz. *mf*

Detailed description: Violin part starting at measure 210. It features a melodic line with dynamic markings from *p* to *f*, then *pp*, and back to *mf*. There are trills and triplets. Performance instructions include 'tasto' and 'pizz.'.

Vla.

[ice\_rstrnt09] close to left hand *mf* *p* *p* *pp*

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pizz. *mf*

frog *p*

pizz. *p*

arco pont. *pp*

Detailed description: Viola part starting at measure 210. It features a melodic line with dynamic markings *mf*, *p*, *p*, and *pp*. Performance instructions include 'pizz.', 'frog', and 'arco pont.'.

Perc.

[ice\_rstrnt09] sand paper block *p* *f* *ff* *mf* *ff* *mf* *p* *p*

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cellophane: *f*

fist (bass) *f*

palm side: *ff*

plastic box *ff*

fist *ff*

knuckle *mf*

take coin & plastic cap *p* *p*

fist (move on coating) *p*

knuckle *p*

Detailed description: Percussion part starting at measure 210. It includes various sound effects like 'sand paper block', 'cellophane', 'fist (bass)', 'palm side', 'plastic box', 'fist', 'knuckle', and 'take coin & plastic cap'. Dynamic markings range from *p* to *ff*.

Table 1

[ice\_rstrnt09] *p* *pp* *p* *p* *ff* *p* *pp* *ff* *mf* *p* *pp*

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move foil on table *p*

cellophane *pp*

cellophane *p*

fingernails on plastic box *p*

smash aluminium foil pile *ff*

touch mic *p*

move foil on table *pp*

cellophane *ff*

keys (tip from the side) *mf*

fist *p*

keys with metal stick *pp*

Detailed description: Table 1 part starting at measure 210. It features various sound effects with dynamic markings *p*, *pp*, *p*, *p*, *ff*, *p*, *pp*, *ff*, *mf*, *p*, and *pp*.

Table 2

[ice\_rstrnt09] *mf* *p* *ff* (action) *ff* *mf* *f* *p*

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plastic box *mf*

fold postcard *p*

rub hands *ff* (action)

drop sheet on grid *ff*

plastic box dampened hit with metal stick *mf*

fist on sheet on grid *f*

cellophane *p*

Detailed description: Table 2 part starting at measure 210. It features various sound effects with dynamic markings *mf*, *p*, *ff* (action), *ff*, *mf*, *f*, and *p*.



222

Perc.

palm *f*  
side: *p*  
fist *p*  
knuckle *p*  
cellophane: *mf*  
plastic box  
move (push) out from under the cap,  
so the cap falls onto the surface  
silently place the box  
back down on the surface  
bracket: *mf*  
fingernail  
fist  
plastic cap: *f*  
knuckle *pp*  
(cap)  
sand paper block *p*  
flat, with edge  
mic: (membrane)  
take coin  
cellophane: *f*  
sand paper block, moved with the side of the hand *ff*  
*mf*

228

Perc.

bracket: *f*  
plastic box (no distinct pitch!) *f*  
coin *mf*  
bracket: *mf*  
sand paper block *pp*  
(fist accent) *f*  
sand paper block *p*  
"pitch" ascending, too  
*p* *ff*  
*p*  
*p* *f* *ppp*  
*mf*  
cresc.

234

Perc.

at the lower rim,  
with lots of pressure *ff*  
coin away  
1 2 3 4 5

245

Perc.

6 7 8

plastic box *mf*

sand paper block *p*

plastic cap

fist

*mf* 3

plastic cap (in left hand) *p* *f*

fist 3

side: *f* palm

sand paper block *f* *pp*

pull all the way from the upper to the lower rim



254 (15)

Vn.

*p*

sempre sim. play 5 times

gliss.

*p*

sines

Vla.

15

*p*

sempre sim. play 5 times

gliss.

*p*

sines

262 (15)

Vn.

Vla.

This block contains the musical notation for measures 262 through 276. It features two staves: the Violin (Vn.) staff on top and the Viola (Vla.) staff on the bottom. Both staves are in treble clef. The music consists of a continuous sixteenth-note pattern. The Violin part starts on a G4 and moves in a stepwise fashion, while the Viola part starts on a G3 and also moves in a stepwise fashion. The two parts are in parallel motion. A dashed line above the staves indicates a 15-measure phrase starting at measure 262. A double bar line is present at the end of measure 276.



270 (15)

Vn.

Vla.

This block contains the musical notation for measures 270 through 284. It features two staves: the Violin (Vn.) staff on top and the Viola (Vla.) staff on the bottom. Both staves are in treble clef. The music consists of a continuous sixteenth-note pattern. The Violin part starts on a G4 and moves in a stepwise fashion, while the Viola part starts on a G3 and also moves in a stepwise fashion. The two parts are in parallel motion. A dashed line above the staves indicates a 15-measure phrase starting at measure 270. A double bar line is present at the end of measure 284.



278 (15)

Vn.

Vla.

Perc.

plastic box

sand paper block

*p* *f* *p* *p < f* *p*

The score is divided into three staves: Violin (Vn.), Viola (Vla.), and Percussion (Perc.). The Violin and Viola parts are identical, consisting of a 15-measure melodic line in treble clef with a key signature of one sharp (F#). The notes are eighth notes with various accidentals. The Percussion part is in common time and features a rhythmic pattern of eighth notes with triplets. It includes dynamic markings (*p*, *f*, *p < f*) and performance instructions for 'plastic box' and 'sand paper block'. The Percussion part begins in the 12th measure of the system.

286 (15)

Vn.

Vla.

Perc.

The score consists of three systems. The first system (measures 1-3) features the Violin and Viola parts with a melodic line of eighth notes. The Percussion part has a complex rhythmic pattern with triplets and dynamic markings of *ff*, *mf*, and *ff*. The second system (measures 4-6) continues the melodic line, with the Percussion part marked *p* and *f*. The third system (measures 7-9) features the Violin and Viola parts with a melodic line of eighth notes. The Percussion part has a complex rhythmic pattern with triplets and dynamic markings of *ppp*, *f*, *mf*, *f*, *p*, and *ff*.

293 (15)

Vn.

Vla.

Perc.

The score consists of three systems. The first system (measures 1-5) features a Violin part with a melodic line of eighth notes, starting with a dynamic of *p*. The Viola part follows with a similar melodic line. The Percussion part begins with a series of sixteenth-note patterns, including triplets, with dynamics ranging from *f* to *ppp*. The second system (measures 6-10) continues the melodic lines, with the Percussion part featuring more complex rhythmic patterns and triplets, marked with *ff* and *f*. The third system (measures 11-15) concludes the passage, with the Violin and Viola parts ending on a sustained note, and the Percussion part featuring a final rhythmic flourish with dynamics *p* and *f*. Performance instructions such as "non cresc.!" and "p < f" are placed above the Percussion staff.

300 (15)

Vn.

Vla.

Perc.

Table 1

Table 2

The score consists of five staves. The Violin (Vn.) and Viola (Vla.) staves are in treble clef and play a melodic line with eighth and sixteenth notes, including triplet markings. The Percussion (Perc.) staff includes dynamic markings (*f*, *mf*, *pp*, *p*, *mf*) and performance instructions such as "upright, with edge", "fingertip", and "NEW: stone". It also features rhythmic diagrams with arrows and vertical lines. Table 1 includes instructions for "plastic bag", "pizz.", and "crackling" with dynamic markings (*mf*, *f*, *mp*, *p*, *mf*, *p*, *mf*, *p*). Table 2 includes instructions for "cellophane", "crackling", and "pizz." with dynamic markings (*pp*, *mf*, *f*, *pp*).

307

Vn.

(15)

Musical notation for the Violin part, starting at measure 15. It features a melodic line with several triplet markings (indicated by a '3' in a bracket) and slurs over groups of notes.

Vla.

(15)

Musical notation for the Viola part, starting at measure 15. It features a melodic line with slurs and various accidentals (sharps and naturals).

Perc.

Musical notation for the Percussion part. It includes dynamics such as *p*, *ppp*, *mf*, *p*, and *pp*. There are also triplet markings and slurs over the rhythmic patterns.

Table 1

Musical notation for Table 1. It includes dynamics such as *mf*, *p*, *mf*, *p*, *p* < < *f*, *p*, and *p*. There are also triplet markings and slurs.

Table 2

Musical notation for Table 2. It includes dynamics such as *p*, *mf*, *p*, *f*, *mf*, and *p*. There are also triplet markings and slurs.

314

Vn.

(15)

Violin staff with musical notation. It begins with a measure marked (15). The staff contains a series of eighth notes with various accidentals (sharps and naturals). There are several triplet markings (3) over groups of notes. The staff concludes with a 3/4 time signature change and a final 4/4 time signature.

Vla.

(15)

Viola staff with musical notation. It begins with a measure marked (15). The staff contains a series of eighth notes with various accidentals. There are several triplet markings (3) over groups of notes. The staff concludes with a 3/4 time signature change and a final 4/4 time signature.

Perc.

fingertip

*mf* <

*pp* *mf* *pp* *pp* *pp* *pp* *pp* *pp* *pp* *mf* <

*f* *f* *f* *f* *f* *f* *f* *f* *f* *pp* *pp* *pp*

Percussion staff with musical notation. It features a series of eighth notes with various dynamic markings: *mf* <, *mf*, *pp*, *mf*, *pp*, *pp*, *pp*, *pp*, *pp*, *pp*, *pp*, *pp*, *mf* <, *pp*, *pp*, *pp*. There are also triplet markings (3) and a 'fingertip' instruction. The staff concludes with a 3/4 time signature change and a final 4/4 time signature.

Table 1

*mf* < *f* *mf* *p* *pp* < *mf* *p* *pp* *pp*

Table 1 staff with musical notation. It features a series of eighth notes with various dynamic markings: *mf* <, *f*, *mf*, *p*, *pp*, <, *mf*, *p*, *pp*, *pp*. There are also triplet markings (3). The staff concludes with a 3/4 time signature change and a final 4/4 time signature.

Table 2

*f* *pp* *mf* *p* *p* *mf*

Table 2 staff with musical notation. It features a series of eighth notes with various dynamic markings: *f*, *pp*, *mf*, *p*, *p*, *mf*. There are also triplet markings (3). The staff concludes with a 3/4 time signature change and a final 4/4 time signature.

322 (15) *mf* *tasto possibile!* *sempre legato!*  
slightly more pressure (fractured sound) changes of bow direction imperceptible

Vn. *mf* moving staircase, cologne hbf 15.10.2009 SYNC

Vla. *mf* *gliss.* moving staircase, cologne hbf 15.10.2009 SYNC



329 (15)

Vn. *mf*

Vla. *mf*

336 (15)

Vn.

Vla.

5/4 4/4

2 1 2 4+

343 (15)

Vn.

Vla.

4 1 4



350 (15)

Vn.

Vla.

Perc.

Table 1

Table 2

*ppp* poco cresc.

*p* non cresc. !

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358

Vn.

Violin staff with musical notation. The staff contains a series of notes with slurs and dynamic markings. The dynamics are *pp* (pianissimo), *cresc.* (crescendo), *f* (forte), *cresc.* (crescendo), and *ff* (fortissimo). At the end of the staff, there is a marking *pp sub.* (pianissimo *subito*) and *ff* (fortissimo) with an arrow pointing to the notes. Above the staff, there is a marking "pont. pressure" with an arrow pointing to the notes.

Vla.

Viola staff with musical notation. The staff contains a series of notes with slurs and dynamic markings. The dynamics are *cresc.* (crescendo), *f* (forte), and *non cresc.!* (no crescendo!). At the end of the staff, there is a marking *ff* (fortissimo).

Perc.

Percussion staff with rhythmic notation. The staff contains a series of notes with stems and flags, indicating a rhythmic pattern.

Table 1

Table 1 staff with rhythmic notation. The staff contains a series of notes with stems and flags, indicating a rhythmic pattern.

Table 2

Table 2 staff with rhythmic notation. The staff contains a series of notes with stems and flags, indicating a rhythmic pattern.

369

ord.

*mf*

*f*

Vn.

Vla.

Perc.

Table 1


Table 2

380

Vn.

Vla.

Perc.

plastic box  accent at vertex

niente poco a poco cresc. sempre sim.

Table 1

Table 2

389

$\text{♩} = 110^*$

Vn. *ppp*

Vla. *ppp*

Perc. *mf*

Table 1 *mf*

Table 2 *mf*

plastic box filled with glas marbles,  
cant to one side on each quarter,  
4 positions, each assigned to a beat  
of the measure  
1: down (v), 2: left (<), 3: up (^), 4: right (>)

plastic box filled with glas marbles,  
cant to one side on each quarter,  
4 positions, each assigned to a beat  
of the measure  
1: down (v), 2: left (<), 3: up (^), 4: right (>)

\* in sync with the tape. the average tempo of the quarter notes is 110 bpm.  
however, the actual durations of the individual notes deviate slightly.

400

Vn.

Vla.

Perc.

Table 1

Table 2

Detailed description of the musical score: The score is for five parts: Violin (Vn.), Viola (Vla.), Percussion (Perc.), Table 1, and Table 2. It begins at measure 400. The Vn. part is in treble clef, starting with a 3/4 time signature and a key signature of one sharp (F#). It features a melodic line with slurs and accidentals (F#, G, A, B, C, D, E, F#). The Vla. part is in alto clef, also starting with a 3/4 time signature and a key signature of one sharp. It features a melodic line with slurs and accidentals (F#, G, A, B, C, D, E, F#). The Perc. part is in common time, starting with a 3/4 time signature and a key signature of one sharp. It features a rhythmic pattern of notes and rests. The Table 1 and Table 2 parts are in common time, starting with a 3/4 time signature and a key signature of one sharp. They feature rhythmic patterns of notes and rests. The score is divided into measures with changing time signatures (3/4, 4/4, 2/4).

411

Vn.

Vla.

Perc.

Table 1

Table 2

2/4 3/4 4/4 2/4 3/4 2/4 3/4 2/4 3/4 2/4 3/4 2/4

422

Vn.

Vla.

Perc.

Table 1

Table 2

2/4 3/4 4/4 3/4 2/4 3/4

2/4 3/4 4/4 3/4 2/4 3/4



433

Vn.

Vla.

Perc.

Table 1

Table 2

put the plastic box around mic, blow on the bottom of the box *ff*

put the plastic box around mic, blow on the bottom of the box *ff*

put the plastic box around mic, blow on the bottom of the box *ff*

duration: approx. 14'45''

