

Introduktion und Motoren

for flute, violin, violincello, piano and motorized and mechanical percussion-objects (4 performers)

Morten Ladehoff 2017

Commissioned and written for Plus-Minus Ensemble, United Kingdom
Duration approx. 8'50"

- Score -

Supported by: **DANISH ARTS FOUNDATION**

Instrumentation:

Flute + motorized, pedal-operated noisemachine ‘M1’ (high pitched) and pedal-operated slap-stick

Violin + motorized, pedal-operated noisemachine ‘M3’ (low pitched) and pedal-operated cardboard box drum (alternative: muted bass drum)

Violincello + motorized, pedal-operated noisemachine ‘M2’ (middle pitched)

Piano (prepared) + castanet

Staging:

(Audience)

(slap-stick) (M1)
Flute

(M3) (drum)
Violin

(M2)
Violincello

Piano

Performance notes:

All



Play the measure(s) 3 times all in all.



'Irrational' meter - cut off the triplet.

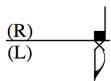


A quarter-tone sharp.



A quarter-tone flat.

Flute



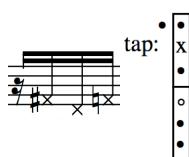
Square notehead = motorized noisemachine M1 (right foot). Cross note = slapstick (left foot). Dynamic level: fortissimo.



Whistle tones. Very weak and fragile sound. Approx. pitch (harmonics) and rhythm. Fundamental fingering = diamond notehead.



Harmonics. Fundamental fingering = diamond notehead.



Key tapping without air. A combination of pitch and key-noise.
Tap with the finger marked 'X'.



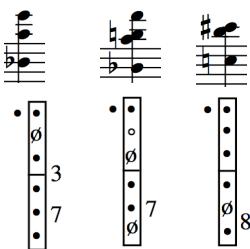
Wind tones – more air than tone.



Exhale and inhale while covering the mouthpiece with the lips.
Sounds an octave above the fundamental fingering.



Same as above but with a strong blow – like warming up.

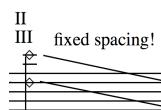


Multiphonics

Violin



Cross notehead = cardboard box drum (right foot). Square notehead = motorized noisemachine M3 (left foot). Dynamic level: fortissimo.



Glissando with natural harmonics – fixed finger spacing (left hand).



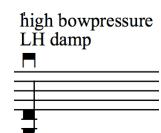
Even glissando (artificial harmonic) – no articulation or bowchange within the slur.

ST

Sul tasto.

SPE

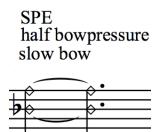
Sul ponticello estremo.



High bowpressure – damp the strings with left hand. Noise only – no pitch.



Col legno battuto on the notes indicated. Damp the strings with left hand.

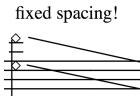


Sul ponticello estremo, half bowpressure, slow bowing on indicated harmonics. Complex sound spectrum with lots of noise.

Violincello



Square note above ordinary staff = motorized noisemachine M2 (right foot).
Dynamic level: fortissimo.



Glissando with natural harmonics – fixed finger spacing (left hand).



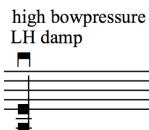
Even glissando – no articulation or bowchange within the slur.

ST

Sul tasto.

SPE

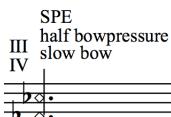
Sul ponticello estremo.



High bowpressure – damp the strings with left hand. Noise only – no pitch.



Col legno battuto on the notes indicated. Damp the strings with left hand.



Sul ponticello estremo, half bowpressure, slow bowing on indicated harmonics.
Complex sound spectrum with lots of noise.



Glissando (artificial harmonic) – fixed finger spacing (left hand). ‘Seagull’.

Piano

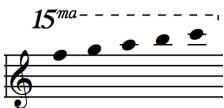
Preparation:



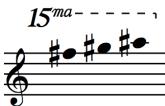
Damp these strings with a cylindrical nugget of sticky tack approx. 2 centimeters from the edge of the dampers inside the piano. Bell-like sound (audible 7th).



Damp all the strings from d1 to d2 with a plate of cardboard or wood. Buzz-like sound.



Damp the strings with felt/fabric/sticky tack. No audible pitch.



Place a custom-made devise with a mounted castanet on top of these notes. No keys will be pressed when hitting the castanet. The white keys below will not be affected.



Castanet.



Press down the note silently.



Damper-pedal activated exactly at the fourth semiquaver. 'Grab' the reverberation.

UC

Una corda.

TC

Tre corde (ordinary).



Audible damper-pedal.

Introduktion und Motoren

Morten Ladehoff
2017

 = 70 Iniziale e espansivo

Objects: Motor 1 (right foot)
Pedal slap stick (left foot)

Flute (R) (L) x3 senza vibrato sempre!

whistle tone

mp

Objects: Pedal drum (right foot)
Motor 3 (left foot)

Violin (R) (L) x3

Violincello (B) (A) x3

Pno. 15^{ma} 15^{ma} (silent)

x3 mp ppp pp cresc. poco a poco

senza ped.

Musical score for orchestra and piano, page 6. The score includes parts for Flute, Obj., Vn., Obj., Vc., and Pno. The Flute and Vn. play eighth-note patterns in 3/4 time. The Obj. and Vc. parts are silent. The Pno. part features sustained notes with grace notes in the bass clef staff.

13

Obj. (R) (L) *8va* 3 3 tap: x

Fl. whistle tone *mp* key tap *mf*

Obj. (R) (L)

Vn. 13 senza sord.

Obj.

Vc. 13 con sord. II ppp

Pno. 13 (release) *p cresc. poco a poco* ped. sempre

26

Obj. (R)
(L)

Fl.

mf cresc. poco a poco

26

Obj. (R)
(L)

Vn.

mf cresc.

II
III fixed spacing!

26

Obj. Vc.

mf cresc.

I fixed spacing!
II

Pno.

mf cresc.

f cresc.

31

Obj. (R)
(L)

Fl.

no pitch correction!
(-14 cent)

A

f = 84

ff

Obj. (R)
(L)

Vn.

SPE

ff

Obj. Vc.

high bowpressure
LH damp

ff

Pno.

f cresc.
6 6 6 6

(castanet)

damp!

Musical score for orchestra and piano, page 38. The score includes parts for Obj. (R), Obj. (L), Flute, Violin, Cello, and Piano. The piano part features complex rhythmic patterns and dynamic markings like *mf*, *ff*, and *SPE*. The violin part includes a 'wind tone' instruction. The cello part has a 'ord' instruction. The piano part also includes a '8va-' instruction.

41

Obj. (R) (L) **x4**

Fl. *mf*

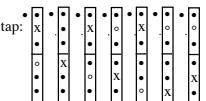
Obj. (R) (L) **x4**

Vn. *ff*

Obj. **x4**

Vc. *ff*

Pno. **x4** *mf*

tap: 

key tap

CLB LH damp

III IV *mf* (3)

high bowpressure LH damp

I *ord* (3)

ff (3)

15^{ma-} (3)

15^{ma-} (3)

pp UC (3)

(3)



45

Obj. (R) (L)

Fl. *ff* 6 6 6 6 6 6 **x3**

Obj. (R) (L) **x3**

Vn. *ff* *sfz* (3)

Obj. **x3**

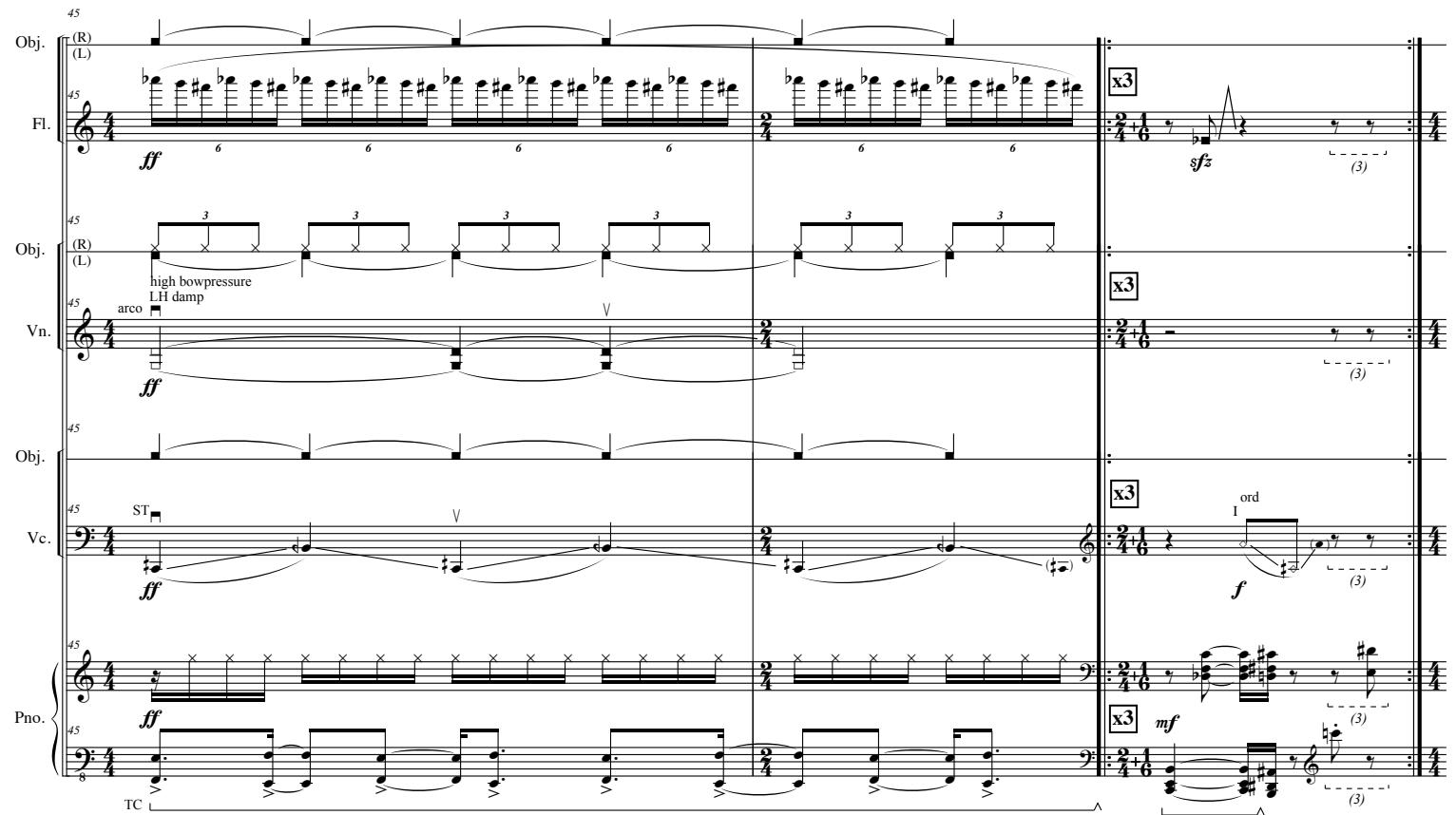
Vc. *ff* *arco* V

Obj. **x3**

Vc. ST *ff* *ord* (3)

Pno. **x3** *mf*

TC (3)



48

Obj. (R) (L)

Fl. *ff*

48 Obj. (R) (L) ord

Vn. *ff*

48 Obj.

Vc. SPE *ff*

Pno. *ff*

15^{ma} *f*

51

Obj. (R) (L)

Fl. *ff*

51 Obj. (R) (L)

Vn. SPE *ff*

51 Obj.

Vc. high bow pressure LH damp *ff*

Pno. *ff*

sfz

54 Obj. (R) (L)

54 Fl. ff

54 Obj. (R) (L)

54 Vn. ff

54 Obj.

54 Vc. SPE ff

54 Pno. ff

54 Pno. ff

16 x4 EX IN EX IN

16 x4 CLB LH damp IV mf

16 x4 CLB LH damp mf

16 x4 pp

UC

B

57 Obj. (R) (L)

57 Fl. ff 6 6 6

57 Obj. (R) (L) high bow pressure LH damp

57 Vn. arco ff

57 Obj.

57 Vc. arco ST ff

57 Pno. ff

16 x6

16 x6 CLB LH damp III IV mf (3)

16 x6 mf (3)

16 x6 pp (3)

TC UC

62

Obj. (R)
(L)

Fl.

62 (3) *ff*

62 Obj. (R)
(L) ord

Vn. (3) *ff*

62 Obj.

Vc. SPE (3) *ff*

15^{ma-} Pno. (3) *ff*

62 TC

66

Obj. (R)
(L)

Fl. wind tone 3 *mp*

66 EX IN EX IN *ff*

66 Obj. (R)
(L) CLB LH damp *ff*

Vn. II V (3) *mf*

66 IV V *ff*

66 Obj. CLB LH damp *ff*

Vc. ST arco *ff*

66 Pno. *mf* 8^{va} *pp* UC TC

Musical score page 9, measures 70-9. The score includes parts for Obj. (R), Obj. (L), Flute, Objects, Violin, Objects, Cello, and Piano.

Obj. (R) and Obj. (L): Measure 70 shows sixteenth-note patterns. Measures 71-72 show eighth-note patterns with dynamics *x3*, *mf*, and *f*. Measure 73 shows eighth-note patterns with dynamics *sfz* and *(3)*.

Flute: Measure 70 has sixteenth-note patterns with dynamics *6* and *6*. Measures 71-72 show eighth-note patterns with dynamics *x3*, *mf*, and *f*. Measure 73 shows eighth-note patterns with dynamics *sfz* and *(3)*.

Objects: Measure 70 shows eighth-note patterns with dynamics *3* and *3*. Measures 71-72 show eighth-note patterns with dynamics *x3*. Measure 73 shows eighth-note patterns with dynamics *(3)*.

Vn. (Violin): Measure 70 shows eighth-note patterns. Measures 71-72 show eighth-note patterns with dynamics *x3*. Measure 73 shows eighth-note patterns with dynamics *(3)*.

Obj. (R) and Obj. (L): Measure 70 shows eighth-note patterns. Measures 71-72 show eighth-note patterns with dynamics *x3*. Measure 73 shows eighth-note patterns with dynamics *ord*, *3*, *mf*, and *f*.

Vc. (Cello): Measure 70 shows eighth-note patterns with dynamics *70* and *(3)*. Measures 71-72 show eighth-note patterns with dynamics *x3*, *mf*, and *f*. Measure 73 shows eighth-note patterns with dynamics *1*, *3*, *f*, and *(3)*.

Pno. (Piano): Measure 70 shows eighth-note patterns with dynamics *70*. Measures 71-72 show eighth-note patterns with dynamics *x3*, *mf*, and *f*. Measure 73 shows eighth-note patterns with dynamics *mf* and *(3)*.

C

81

Obj. (R)
Obj. (L)

Fl. EX IN

Obj. (R)
Obj. (L)

Vn. CLB LH damp IV ord II

Obj.

Vc. CLB LH damp I

Pno. Pno.

85

Obj. (R)
Obj. (L)

Fl. ff

Obj. (R)
Obj. (L)

Vn. SPE ord f

Obj.

Vc. high bow pressure LH damp arco ff

Pno. Pno.

D

89

Obj. (R)
(L)

Fl.

89

Obj. (R)
(L)

Vn.

89

Obj.

Vc.

Pno.

101

Obj. (R) (L)

Fl. ff

101 EX IN

Obj. (R) (L)

Vn. ff

CLB LH damp IV

Obj.

Vc. SPE ff

CLB LH damp I

Pno. ff

ff

E

105

Obj. (R) (L) (3)

Fl. sfz (3)

105 mf (3)

Obj. (R) (L)

Vn. ord f SPE half bow pressure II slow bow III CLB LH damp IV

Obj.

Vc. ord f (3)

Pno. mf (3) 15ma- UC

105 f (3) 15ma- pp (3)

F

129

Obj. (R)
(L)

Fl.

129

Obj. (R)
(L)

Vn.

129

Obj.

Vc.

Pno.

Detailed description: This is a page from a musical score. It contains six staves. From top to bottom: 1) Obj. (R) and Obj. (L) staves, both with short vertical dashes as notes; 2) Flute staff with dynamics ff, sfz, and mf; 3) Obj. (R) and Obj. (L) staves, both with x marks; 4) Violin staff with dynamics ff and mf; 5) Obj. staff with a single note and a dynamic ff; 6) Cello staff with dynamics ff, f, ff, ff, mf, f, ff, and specific instructions: SPE, I ord, high bowpressure LH damp, I ord, high bowpressure LH damp. The piano staff at the bottom has dynamics ff, mf, ff, ff, mf, ff, and ff. Measure numbers 129 are placed above the first four staves.

135

Obj. (R) (L)

Fl. *mf*

Obj. (R) (L)

Vn.

Obj.

Vc.

Pno. *mf*

136 SPE
half bowpressure
II slow bow
III

137 high bowpressure
LH damp

138 ord
I II

139 high bowpressure
LH damp

140 ST

141 (3)

142

Obj. (R) (L)

Fl. *mf*

Obj. (R) (L)

Vn. *mf*

Obj.

Vc.

Pno. *mf*

143 EX

144 CLB
LH damp

145 IV

146 III
IV

147 (3)

148 (3)

G

148

Obj. (R) (L)

Fl.

Obj. (R) (L)

Vn.

Obj.

Vc.

Pno.

IV

ord
III half bowpressure
IV slow bow

ord
III half bowpressure
IV slow bow

15ma-----
f

15ma-----
f

156

Obj. (R) (L)

Fl.

Obj. (R) (L)

Vn.

Obj.

Vc.

Pno.

high bowpressure
LH damp

CLB
LH damp
III IV

ord
I V
mf

15ma-----
f

163

Obj. (R) (L)

Fl. ff mf ff

Obj. (R) (L)

Vn.

Obj.

Vc. 163 3 f (3)

Pno. 163 ff mf 3 ff 6 163 6 (3)

H

170

Obj. (R) (L) (3)

Fl. 170 mf (3)

Obj. (R) (L)

Vn. 170 CLB LH damp IV (3) mf

Obj.

Vc. 170 1 3 (3) 1 3 (3) III IV SPE half bow pressure slow bow f

Pno. 170 (3) mf 3 (3) 170 3 (3) 170 3 (3)

178

Obj. (R) (L)

Fl. *mp*

178 Obj. (R) (L)

Vn. I ord II SPE half bowpressure
III slow bow

178 Obj.

Vc. 178

Pno. 178

I

$\text{♩} = 60$ gradual accelerando poco a poco - to the double tempo

187

Obj. (R) (L)

Fl. *mp* cresc. poco a poco

187 Obj. (R) (L)

Vn. *mf* cresc. poco a poco

187 Obj.

Vc. *mp* cresc. poco a poco ord fixed spacing!

187 Pno. *sfp* (damper pedal) *p* cresc. poco a poco

15^{ma-} 15^{ma-}

senza ped.

stepwise accelerando

- not gradual!

♩ = 60

♩ = 64

196

(R)
(L)

Fl.

Obj.
(R)
(L)

Vn.

Obj.

Vc.

Pno.

196

15^{ma-}

15^{ma-}

15^{ma-}

15^{ma-}

15^{ma-}

x4

f

x4

f

x4

f

x4

f

201

(R)
(L)

Fl.

Obj.
(R)
(L)

Vn.

Obj.

Vc.

Pno.

201

15^{ma-}

15^{ma-}

15^{ma-}

15^{ma-}

15^{ma-} 8^{va-}

67

71

76

80

85

206

(R) (L)

Fl.

Obj. (R) (L)

Vn.

Obj.

Vc.

Pno.

$\text{♩} = 90$

$\text{♩} = 95$

$\text{♩} = 100$

$\text{♩} = 107$

$\text{♩} = 113$

x5

x5

x5

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$ $8^{\text{va-}}$

211

(R) (L)

Fl.

Obj. (R) (L)

Vn.

Obj.

Vc.

Pno.

$\text{♩} = 90$

$\text{♩} = 120$

x3

x3

damp!

x3

damp!

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$ $8^{\text{va-}}$

$15^{\text{ma-}}$

$8^{\text{vb-}}$