

# la résistance sert le son

une histoire de métamorphose

*for harpsichord and live-electronics*

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## Performance Notes

**Staves:** There are five staves in one line. For each hand first stave indicates playing on the strings and the second on the keyboard. The fifth stave is for the live-electronics.

**Registers:** All registers, 8+8+4 should be active during the performance!!!

**Keys:** There are two additional keys: one is for playing on the strings, and the other is for playing on the lid. They are used for indicating the position of the hand inside the harpsichord.



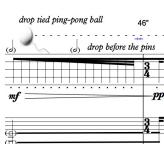
**Tube:** With the rosined bike's inner tube, indicated pitches are played. Upper stave shows the direction and dynamics of the action, while the lower shows the strings played and the graphic of resulting pitches. While playing overpressure, lowering the speed helps to get the noisy sound character.



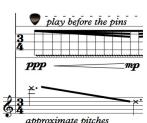
**Tape:** The rosined cassette's magnetic tape is tied to the strings B1, C2, D2, F2. Upper staves shows the position of the tape, which is moving vertically during playing and the rhythm of the action, while the lower stave shows the string which the tape is tied to.



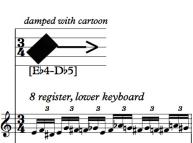
**Pressure:** The signs are indicating the pressure of the actions with the playing objects: first one is ordinary pressure, second is the half over pressure, and the third is the full over pressure.



**Ping-pong balls:** Drop the ping-pong balls between the pins and bridge, which are tied to the body of the instrument, in the indicated pitch-area. If indicated so, it is dropped behind the further bridge. There are five different areas, therefore there should be 5 ping-pong balls located to those areas.



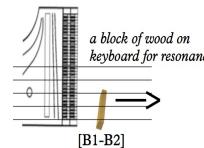
**Plectrum:** Play with plectrum between the pins and bridge in the lower staves indicated pitch-area.



**Damping strings:** There are some materials used to damp the strings. These are cartoon, pvc sheet, iphone 5(s), tuning fork, thin-long glass, glass bottle. Some of them are prepared before the piece begins and the others are placed and removed during the piece as indicated in the score.



**Cluster:** Some pitch groups are indicated with square note-heads. These are used for the clusters. All the chromatic notes are played between lowest and highest pitch given.



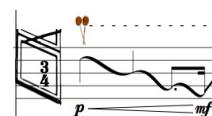
**Wood block:** Prior to the performance, a specific wood-block is used to press all the chromatic keys on the keyboard in order to make them resonate, while playing inside the instrument. In parenthesis the pitch-area where the wood-block is located, is given. (B1 ist kontra H, B2 is große H)



**Register notation:** The scientific pitch notation is used to indicate the pitches.



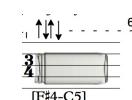
**Plectrum on the strings:** The indicated pitch-area is played with plectrum on the strings. Lower stave shows action discretion. It should vibrate after the action since the played strings are freed by the wood-block to resonate.



**Superball:** The large superball is played on the lid of the instrument. Curved lines indicate that action has to have curves.



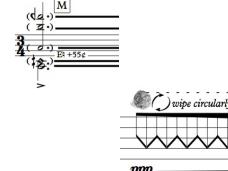
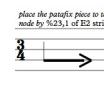
**Preparation:** the given objects should be located on the given pitch areas. If they are too short for those areas, more of those object should be used to damp the given strings. These objects should be located during the solo live-electronics.



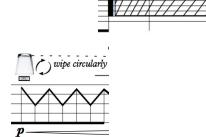
**Bottle:** push the bottle gently forth so that it moves back and forth by itself on the strings to produce continuous glissandi in both directions alternatingly.



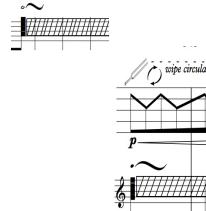
**Multiphonics:** place the patafix pieces to the multipionic nodes by the given procent of the given strings.



**Thin foil wipe:** wipe the thin foil ball on the given pitch area. Make hits by the accents and change the pressure according to indications.



**Little thick glass wipe:** wipe the little thick glass on the given pitch area. Make hits by the accents and change the pressure according to indications.



**Tuning fork wipe:** wipe the tuning fork on the given pitch area. Make hits by the accents and change the pressure according to indications.

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**0"**  $\text{♩} = 58$  play on the strings with a bike tube

**4"** **1** **8"** **morse code like** **approx.rhythm**

**11"** **15"** **19"**

**Harpsichord Right Hand**

**ppp** **f** **p** **mp** **p** **mp** **p**

**pull the tied cassette band**

**24"** **28"** **33"** **36"** **40"**

**Harpsichord Left Hand**

**ppp** **f p**

**Electronics**

**pre-1** **pre-2**

**ring\_2** **sog\_2\_rec** **ring\_1\_off** **sog\_3\_play** **harm\_2**



**24"** **28"** **33"** **36"** **40"**

**Hpsd. R.H.**

**ppp** **mf pp** **mf p** **mf** **f** **mf ff**

**Hpsd. L.H.**

**mf** **p** **mf**

**Elect.**

**pre-3** **pre-4**

**ring\_3** **harm\_1 off** **ring\_1 off** **ensig\_2** **sog\_1 off**



**44"** **drop tied ping-pong ball** **46"** **drop before the pins** **49"** **drop behind the bridge** **53"** **drop before the pins** **57"** **morse code like**

**Hpsd. R.H.**

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

**Hpsd. L.H.**

**ff**

**Elect.**

**pre-5** **ensig\_1 off** **harm\_3** **sog\_4\_rec** **approximate pitches** **pre-6** **harm\_1 off** **sog\_5\_play** **res\_2**

1'02" 1'06" 1'10" 1'12" 1'16" 1'19"

Hpsd.  
R.H.

Hpsd.  
L.H.

Elec.

*damped with cartoon*

[B $\flat$ 4-D $\sharp$ 5]

8+8+4 registers

*drop behind the bridge*

*play between the pins and bridge*

*approximate pitches*

**pre-7**

**pre-8**

**pre-9**

*sog\_1\_off*

*res\_1\_off*

*ring\_1\_off*

*ring\_3*

*ring\_4*

**2** **3** **4** **3** **4** **2**

1'23" 1'25" 1'28" 1'33" 1'37"

Hpsd.  
R.H.

Hpsd.  
L.H.

Elec.

*drop behind the bridge*

*play between the pins and bridge*

*approximate pitches*

**pre-9**

*res\_1\_off*

*harm\_4*

**2** **3** **4** **3** **4** **2**

1'41" 1'45" 1'49" 1'53" 2'03" 1'57"

Hpsd.  
R.H.

Hpsd.  
L.H.

Elec.

*(tr)*

*mf*

*pp*

*p*

*f*

*p*

*pp*

*"p"*

*pp*

*"p"*

*pp*

*a block of wood is placed on keyboard for resonance before the piece starts*

**pre-10**

*harm\_1\_off*

*ring\_5*

**pre-11**

*xn\_2*

**5**

**4**

2'08"

33 damped with cartoon [E4-D5]

Hpsd. R.H.

2'12"

2'16"

2'21"

2'25"

play on the strings with the plectrum 1

Hpsd. L.H. mf → f let vibrate

damped with pvc sheet [C3-B3]

morse code like

**pre-12**

**pre-13**

Elec.  $\frac{4}{4}$  ring\_1\_off  $\frac{5}{4}$   $\frac{4}{4}$  harm\_5  $\frac{3}{4}$   $\frac{2}{4}$

res\_4

2'28"

remove the cartoon [E4-D5]

Hpsd. R.H.

2'31"

mf → f let vibrate

2'34"

tr.....

**pre-14**

Hpsd. L.H.

2'38"

play rhythmically with the bike tube 2'41"

pp → mp

**pre-15**

Elec.  $\frac{2}{4}$  harm\_1\_off  $\frac{3}{4}$  cop\_2  $\frac{4}{4}$   $\frac{3}{4}$  res\_1\_off  $\frac{4}{4}$   $\frac{3}{4}$

2'45"

43

Hpsd. R.H.

2'48"

f

3

**pre-16**

Hpsd. L.H.

2'51"

play between the pins and bridge

**pre-17**

Elec.  $\frac{3}{4}$  harm\_6  $\frac{3}{4}$  xn\_1\_off  $\frac{2}{4}$   $\frac{4}{4}$   $\frac{3}{4}$   $\frac{2}{4}$

p ff

3'01" 3'03" 3'07" 3'11" 3'15" 3'19" 3'23"

**Hpsd. R.H.**

**Hpsd. L.H.**

**Elec.**

48

*ff let vibrate ff*

*remove the pvc sheet [C3-B3]*

*pre-18* *2 harm\_1\_off*   *pre-19* *4 res\_1\_off*   *pre-20* *ring\_6*

*pre-21* *ring\_1\_off* *harm\_7* *cop\_3* *frz\_2\_rec*

*play with big superball on the lid*

3'27" 3'31" 3'34" 3'38" 3'42"

**Hpsd. R.H.**

**Hpsd. L.H.**

**Elec.**

55

*morse code like approx.rhythm*

*p ppp p ppp*

*p mfp mp f*

*p mfp p mfp p f p f p f p f p f p mfp p p mp p*

*pre-22* *ring\_1\_off* *harm\_1\_off* *ensig\_3* *vrd\_2\_rec*

3'46" 3'50" 3'54" 3'58" 4'03"

**Hpsd. R.H.**

**Hpsd. L.H.**

**Elec.**

60

*mp p mf p f pp*

*mf pp*

*mf pp*

*pre-23* *ensig\_1\_off* *vrd\_3\_play* *frz\_3\_play*

**SOLO LIVE-ELECTRONICS ca.30"**

**Preparation**

*remove the block of wood*

*place an (if needed two) iphone 5s, tuning fork, long thin glass and glass bottle on the given strings.*

[B1-B2] [B1-B2] [C3-B3] [C4-F4] [F#4-D5] [D5-D6]

4'34" 4'37" 4'39" 4'42" 4'46" 4'50" 4'54" 4'57" 5'03"

*move the glass back and forth to produce glissando*

*move the glass back and forth rhythmically*

*move the glass back and forth with vibrato*

Hpsd. R.H. [C4-F4]

Hpsd. L.H.

Elec.

**[pre-24]**

$\frac{3}{4}$  vrd\_1\_off  $\frac{2}{4}$   $\frac{3}{4}$   $\frac{4}{4}$

$\frac{3}{4}$  frz\_1-off

harm\_8

5'08" 5'12" 5'18"

*leave the glass on its initial position*

5'20" 5'23" 5'26"

Hpsd. R.H. [C4-F4]

Hpsd. L.H.

Elec.

**[pre-25]**

$\frac{3}{4}$  harm\_9  $\frac{4}{4}$  harm\_7

5'30" 5'34" 5'39" 5'43" 5'48"

80

Hpsd. R.H.

Hpsd. L.H.

Elec.

5'51"

Hpsd. R.H. 85

5'54" 5'56"

5'58" 6'01"

6'05" 6'09"

**pre-26**

harm\_1\_off  
res\_1\_off  
cop\_4  
sog\_6\_rec

6'13" 92

Hpsd. R.H. (tr)

6'17" 6'20" 6'24" 6'26" 6'31"

Hpsd. L.H.

6'34" 6'37" 6'39" 6'42"

**pre-27**

cop\_1\_off  
sog\_7\_play

**pre-28**

harm\_10  
vrd\_4\_rec

move the tuning fork back and forth to produce glissando  
[F#3-B3]

6'46" 102 push the bottle gently forth so that it moves back and forth by itself on the strings

Hpsd. R.H. [F#4-C5]

6'55" 6'51" 6'58"

Hpsd. L.H.

7'03" 7'05"

**SOLO LIVE-ELECTRONICS ca.45"**

7'08" Remove Previous Preparation!!

**pre-29**

res\_8  
frz\_4\_rec

**pre-30**

sog\_8\_play  
frz\_5\_play  
vrd\_5\_play

push the bottle gently forth so that it moves back and forth by itself on the strings

[F#4-C5]

[F#4-C5]

%23,1 %18,8 %30,8 %23,1 %18,8 %30,8

Eb +55c A +47c D +37c E +55c E +47c G +37c

place the patifix pieces to the nodes by only the upper manual !!

UHU patifix

%23,1 %18,8 %30,8 %23,1

G +55c G +47c B +37c A +55c

8 register

7'54" 8'01" 8'04"

Hpsd. R.H. 109 C wipe circularly with a crumpled tin foil

Hpsd. L.H. place the patafix piece to the node by %18,8 of the F#2 string

Elec. pre-31 sog\_1\_off vrd\_1\_off frz\_1\_off cop\_5 res\_9

7'58" sfz sfz 8'08" sfz sfz - 1 sfz 8'12"

\* accents are indicating a fast movement, which should sound like an accent

place the patafix piece to the node by %23,1 of C2 string

place the patafix piece to the node by %30,8 of the G#2 string

place the patafix piece to the node by %23,1 of the C4 string

pre-32 A +47c B +55c D +37c E +55c

pre-33 A +47c B +55c D +37c E +55c

pre-34 xn\_1\_off res\_11

8'16" 8'20" 8'24" 8'28" 8'32" 8'36"

Hpsd. R.H. 115 C wipe circularly with a tuning fork

Hpsd. L.H. place the patafix piece to the node by %30,8 of the C#4 string

Elec. pre-35 res\_1\_off ensig\_4

p mf f mf f

place the patafix piece to the node by %18,8 of the string F#2

[M] details can be seen in bar 107

G +37c

pre-36 A +47c B +55c D +37c E +55c

ensig\_1\_off res\_12

tr

pre-37

8'36" 8'40" 8'44" 8'46" 8'50" 8'54" 8'58" 9'03"

Hpsd. R.H. 120 C wipe rhythmically with a little thick glass

Hpsd. L.H. C wipe circularly with a tuning fork

Elec. pre-37 res\_1\_off harm\_11

pp f mp f ff

play on the strings with a bike tube

pull the tied cassette band

pre-38 ring\_7 sog\_9\_rec

9'07" 9'10" 9'12" 9'16" 9'20" 9'24"

Hpsd. R.H. 128 play with big superball on the lid

Hpsd. L.H. *mf pp*

Elect. **[pre-39]** **[pre-40]** drop behind the bridge

**3** ring\_1\_off harm\_12 **2** **4** sog\_10\_play vrd\_6\_rec



9'29" 9'33" 9'37" 9'40" 9'44"

Hpsd. R.H. play on the strings with a bike tube morse code like approx.rhythm [F#4-C5]

Hpsd. L.H. pull the tied cassette band

Elect. **[pre-41]** **[pre-42]** harm\_13 3 4 2 4

ring\_8 frz\_6\_rec



9'46" 9'50" 9'53" 10'01" 9'57" 10'05"

Hpsd. R.H. 139

Hpsd. L.H. [F#4-C5] pull the tied cassette band

Elect. **4** **2** **4** **4** **2** **4**

**[pre-43]** **harm\_1\_off xn\_5** **[pre-44]** **sog\_11\_play frz\_7\_play vrd\_7\_play**

**SOLO LIVE-ELECTRONICS ca.60"**