

F r é d é r i c L E B E L

2 5 : 1 7

for cello & electronics

*Work composed for IRCAM's cursus,
in collaboration with Cameron Crozman.*

Duration : ca. 12,5 minutes

P A R I S - F E B R U A R Y 2 0 1 5

PERFORMANCE NOTES

Accidentals are indicated before each notes excepted for repeated ones and/or identical chords.

ASP+ : *altissimo sul ponticello* (*whistling sound*)

ASP : *alto sul ponticello*

SP : *sul ponticello*

PSP : *poco sul ponticello*

ord. : *ordinario*


ST : *sul tasto*


AST : *alto sul tasto*

1/2 pressure : finger pressure as for normal harmonics but not necessarily on a harmonic node.

normal : referring to normal finger pressure as for normal notes.


Exaggerated shifts : somewhere between glissando, portamento and normal playing.

 : Exaggerated bow pressure (noise only)

 : Heavy bow pressure (pitch+noise)

 : Muffle strings with left hand

 : Gradually go (interpolate) from one state to the other

 : Play the sequence as fast as possible

Look into the score as more indications are written along...

ELECTRONICS

HARDWARE

- 2 microphones : 1 DPA 4061 + 1 KnK piezo transducer
- 1 Mixing board
- 1 Audio interface with **loopback** feature (RME fireface 800 or equivalent)
- 6 Loud Speakers
- 1 CPU (apple MacBook Pro : Late 2013)

SOFTWARE

- MaxMSP 6.1 (or later) : for live processings
- Ableton LIVE 9 Suite (or later) : for synthesizers (AAS Canadian Boards) and samplers (Embed)

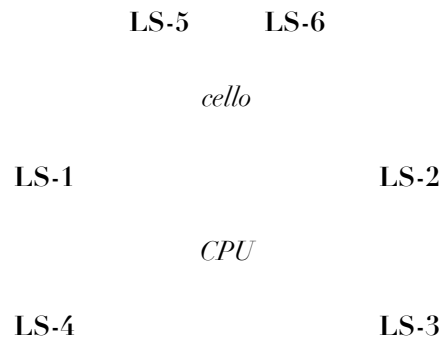
DOCS

Look into the attached documents (LEBEL_2517-ConcertMaterial) for more information.

Need help about softwares, patches, externals, how to perform the electronics, etc.

Contact me : frdric.lebel@gmail.com OR jean.lochard@ircam.fr

CONCERT SETUP



FIRST STEPS

- Open Ableton LIVE 9 suite, then *LiveSet Project*
- Set MIDI input ports for **Synth & Percs** : from Max 1 / from Max 2
- Set AUDIO output ports for **Synth & Percs (loopback)** : “to max” channel 3-4 & channel 5-6
- Open MaxMSP, then *LEBEL_2517_MaxProject.maxproj*
- On the main patch interface, follow the “Check-List” to complete the startup procedure...

25 : 17

for cello & electronics

Frédéric LEBEL

Impetuous ♩ = ca. 92

Cello

ff

ASP

ASP

ASP

3

3

3

* Hit the stringboard with left hand for percussive sound
** Past the bridge, play close to windings for rough sound

3

ord.

ASP

sffz p

f

ff

5

ord.

IIIc.

IIc.

ASP

f

mf

ff

7

ord.

ASP

sffz p

f

mf < ff

9

ord.

ASP

sffz p

ff

11 — ord. — **D** — *molto rit.* — [ASP] — ord. — *go from tremolo to rhythm*

sfz p — *f* — *ff*

13 — *a tempo* — [ASP] — ord. — *poco rit.* — *accel.* — SP — *Vib. molto* — *p*

fff — *mf* — *ff* — *p*

E — *a tempo* — ord. — SP — *Vib. molto*

ff — *mf* — *f* — *p*

F — *a tempo* — *poco rit.* — *accel.* — [ASP] — ord. — ord. — *mf* — *ff*

sfz p — *f* — *ff* — *mf* — *ff*

19 — *rit.* — *accel.* — *a tempo* — SP — *Vib. molto* — ord. — ord. — ord. — *p* — *f*

mf — *ff* — *f* — *ff* — *p* — *f*

21 — ord. — *poco rit.* — *accel.* — ord. — ord. — *mf* — *ff* — *mf*

mf — *ff* — *mf* — *ff* — *mf*

G *a tempo* *Vib. molto* *ord.* *rit.* *ord.* *accel.* *a tempo* *ord.*

f *ff* *p* *f* *ff*

H *ord.* *Vib. molto* *Exaggerated shifts* *Illc.* *Ic. sim.* *poco rit.* *ord.* *accel.* *Vib. molto*

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

I *a tempo* *ord.* *ord.* *SP* *Vib. molto* *ord.* *(exaggerated shifts)* *Illc.*

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

30 *SP* *Vib. molto* *ord.* *ord.* *SP* *Vib. molto*

mf *p* *ff* *p*

J *ord.* *Illc.* *ord.* *SP* *Vib. molto* *ord.* *Illc.* *Ic.* *Ic.*

f *p* *f* *p* *ff* *p*

35 *SP* *Vib. molto* *ord.* *Ic.* *ord.* *Rythm change only, tremolo remains ...* *molto rit.* *ord.* *accel.* *a tempo* *go from harmonics to normal...* *(ord.)* *legatissimo* *Loop while sliding to next.*

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

rit. → *normal ASP* → *accel.* → *harmonics ord.* → *a tempo* → *normal SP* → *ord. IIc.* → *L* → *poco rit.* → *accel.* → *ord.*

a tempo → *SP* → *Vib. molto* → *ord. Ic.* → *AST* → *normal ASP* → *normal* → *IIc.* → *IIIc.* → *Loop...* → *normal ASP* → *f*

Very light circular bowing

rit. → *accel.* → *a tempo*

ST (IIIc.) → *SP* → *ord. IIc.* → *M* → *harmonics (ord.)* → *normal ASP* → *harmonics ord.*

normal SP → *ord. IVc.* → *AST* → *normal ASP* → *harmonics ord.* → *normal ASP* → *harmonics ord.*

normal SP → *harmonics ord.* → *normal SP* → *rit.* → *harmonics ord.* → *(IIc.) // Ic.*

go from motive to trill, then... Slow down rhythm as well as tempo.

ASP+ (whistling) → *Vib. molto* → *ad lib.*

...go From trill To vibrato

tr whole tone up

ca. 10sec.

G.P.

pp → *ppp* → *al niente*

a tempo

N *Light & expressive*

ord. IVc. 3 PSP ord. IIIc. IIc. SP ord.
 pp mf sfz p poco f pp
 3 3 5 3

harmonics (ord.) [Loop...] normal SP harmonics ord. normal AST ASP harmonics ord. poco rit. accel. a tempo
 ppp mf p fp pp mp

61 normal ASP harmonics ord. normal AST ASP harmonics ord. AST ASP
 f p fp pp fp

64 ST ASP harmonics (ord.) normal SP harmonics (ord.) ASP ord. P Ie. IIc. IIIc. IVc.
 f pp mf p f pp

67 1/2 pressure (ord.) normal SP Vib. molto poco rit.
 IIIc. IIc. Ic. SP ord. IIc. IIIc. IVc.
 sfz p poco f pp ppp f

70 a tempo ord. IIIc. IIc. Ic. SP ord. IIc. IIIc. (ord.) Loop while sliding to next.
 pp sfz p mf pp ppp

73 [ASP 1/2 pressure] → normal → ord. 1/2 pres. *As high as possible* **R**

normal → SP

f *p* *f* *pp* *sfz* *p* *poco f*

76 ord. IV IIIc. 5 IVc. IIIc. 3 IVc. 3 ord. *rit.* → *a tempo*

AST ASP

p *pp* *fp* *ff* *pp*

79 ASP → ord. IIIc. IIc. Ic. SP → ord.

sfz *p* *f* *pp* *sfz* *p* *poco f* *pp*

82 SP *Vib. molto*

ord. IVc. 3 SP → ord. IIIc. 6 IV IIIc. 5 IVc.

sfz *p* *ff* *pp* *sfz* *p* *poco f*

85 SP ord. → ASP **S**

IIIc. 3 IIc. Ic. *tr* ord. normal *ff*

p *sfz* *p* *f* *p* *piu f*

88 [ASP 1/2 pressure] → normal → ord. 1/2 pressure → normal *rit.*

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

90 *accel.* *a tempo*
 (ord.) → SP (normal) **T** *Focused*
 [ord. 1/2 pressure] → normal → spiccato
pp *f* *p* *mp* *mf*

93 **U** ASP (normal) [ord. 1/2 pressure] SP normal *Vib. molto*
mp *p* *f* *mf* *pp*

96 [ord. normal] [ASP 1/2 pressure] [ord. normal] [SP 1/2 pressure]
ff *f* *mf* *pp*

98 [ord. normal] → SP → ord. → ASP → ord.
sffz p *mf* *f* *ff* *f*

100 → 1/2 pressure
p *sffz mf* *mp* *p* *pp*

V *Impetuous*

normal → spiccato

ord. → SP → ASP → [ord. martelato]

6 6 6 6

mp → *mf*

pp → *f* → *ff*

104

poco rit. → accel. → a tempo

spiccato, → ord. → accel. → ord.

W

6 6 3

mf → *pp* → *f* → *ff* → *mf*

106

a tempo

ASP → ord. → ASP → ord. → SP → ord.

ff → *p* < *ff*

108

ASP → ord. → ord. → ASP → ord.

Vib. molto

poco rit. → a tempo

p → *ff* → *mf*

X *Hysterical*

Vib. frenetico *fast, wide, jittery and unpredictable...*

110

fff *sost.*

ff

Y *Drop and rebuild...*

ord. 1/2 pressure → normal → spiccato → martelato

ASP → ord. → ord.

3 6 6 6

mp → *mf* → *f* → *ff* → *mf* → *fp*

116

martelato → *spiccato* → *ord.* → *spiccato* → *martelato*

ff → *mf* → *p* → *mf* → *f* → *ff*

[ASP]

118

→ *ord. martelato* → *spiccato* → *ord.*

mf → *pp*

[Z] *Build up!*

f → *ff* → *fff* → *f*

poco rit. → *a tempo*

[ASP]

→ *ord.*

123

→ *SP* → *ord.*

p → *ff* → *pp* < *ffff sost.*

[ASP]

[AA] *Hysterical*

Vib. frenetico (*fast, wide, jittery and unpredictable...*)

→ *ord.*

126

(*bow very close to windings*)

fff as rough as possible...

ffff sost.

[ASP]

Vib. frenetico

poco rit.

129 *a tempo*

BB *Fiercely*

AST

fff *f* *ppp*

CC *Build up!*

SP

ord.

ASP

AST

f *mf* *ff* *pp*

ASP] *Hysterical*

Vib. frenetico

DD

/ord.

[ASP]

ord.

[ASP]

Vib. frenetico

ffff sost. *sffz p* *ff* *mf* *ffff sost.*

139

ord.

fff *as rough as possible...*

142

ASP]

Vib. frenetico

/ord.

[ASP]

ord.

[ASP]

Vib. frenetico

sffz p *ff* *mf* *ffff sost.*

145

EE *Fiercely*

fff *f* *ff*

Delicate

Hysterical [ASP frenetico!]

ASP+ (whistling) → ord. → PSP → ord. → SP → ord.

Vib.

FF

pppp p ppp mp pp mf p ff

Detailed description: This musical score for the FF section features a treble clef and a wavy vibrato line. The melody consists of eighth notes with various accidentals (sharps and naturals). The dynamics are marked as pppp, p, ppp, mp, pp, mf, p, and ff. Above the staff, performance instructions include 'ASP+ (whistling)', 'Vib.', and a sequence of articulation markings: 'ord.', 'PSP', 'ord.', 'SP', and 'ord.'. A bracket labeled 'Hysterical' and '[ASP frenetico!]' spans the final measures.

GG *Fiercely*

fff f ff mf f ff mp mf

Detailed description: This musical score for the GG section is in bass clef. It features a series of notes with various accidentals and dynamics: fff, f, ff, mf, f, ff, mp, and mf. Above the staff, there are circled symbols resembling the Greek letter phi (φ) above certain notes.

Delicate

ASP+ (whistling) → ord. → PSP → ord. → SP → ord. → PSP

Vib.

HH

ppp p pp mp p mf p mp

Detailed description: This musical score for the HH section is in treble clef and includes a wavy vibrato line. The melody consists of eighth notes with various accidentals. Dynamics are marked as ppp, p, pp, mp, p, mf, p, and mp. Above the staff, performance instructions include 'ASP+ (whistling)', 'Vib.', and a sequence of articulation markings: 'ord.', 'PSP', 'ord.', 'SP', 'ord.', and 'PSP'.

Hysterical [ASP frenetico!] → *Delicate*

ord. → PSP → SP → SP → PSP → ord. → PSP

167

pp mf f fff f mf pp mp

Detailed description: This musical score starts at measure 167 in treble clef. It features a wavy vibrato line and a melody of eighth notes with various accidentals. Dynamics are marked as pp, mf, f, fff, f, mf, pp, and mp. Above the staff, performance instructions include 'ord.', 'PSP', 'SP', 'SP', 'PSP', 'ord.', and 'PSP'. A bracket labeled 'Hysterical' and '[ASP frenetico!]' spans the first part of the section, and a bracket labeled 'Delicate' spans the latter part.

II *Expressive*

ord. 1/2 pressure

[ASP normal]

[ord. 1/2 pressure]

poco rit.

pp ff mf

Detailed description: This musical score for the II section is in treble clef and includes a wavy vibrato line. The melody consists of notes with various accidentals. Dynamics are marked as pp, ff, and mf. Above the staff, performance instructions include 'ord. 1/2 pressure', '[ASP normal]', and '[ord. 1/2 pressure]'. The tempo marking 'poco rit.' is present at the end of the section.

Delicate a tempo

ASP+ (whistling) normal → ord. → PSP → ord. → SP → ord. → ASP

Vib.

JJ

pppp p ppp mp pp mf p f

Detailed description: This musical score for the JJ section is in treble clef and includes a wavy vibrato line. The melody consists of eighth notes with various accidentals. Dynamics are marked as pppp, p, ppp, mp, pp, mf, p, and f. Above the staff, performance instructions include 'ASP+ (whistling) normal', 'Vib.', and a sequence of articulation markings: 'ord.', 'PSP', 'ord.', 'SP', 'ord.', and 'ASP'.

ord. → SP → ord. → PSP → ord. → ASP+ → ord. → PSP

179

pp *mf* *ppp* *mp* *pppp* *p* *ppp* *mp*

→ ord. → SP → ord. → ASP → ord. → SP → ord. → PSP

183

pp *mf* *p* *poco f* *pp* *mf* *ppp* *mp*

→ ord. → ASP+ → ord. → PSP → ord. → SP → ord. → ASP

187

pppp *p* *ppp* *mp* *pp* *mf* *p* *f*

KK *Expressive*

ord. normal → [ASP 1/2 pressure] → normal

rit.

ff *f* *mf*

accel. → *a tempo* → *poco rit.* → *accel.* → *a tempo*

193

ord. 1/2 pressure → normal → 1/2 pressure → (ord.) normal → [SP 1/2 pres.]

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

molto rit. → *a tempo*

195

LL *Light & focused*

ord. normal → IIIc. → IIc. → Ic. → SP → ord. → IIc. → IIIc. → IVc. → 3

pp *sfz* *p* *poco f* *pp*

198

PSP → ord. 3

MM *Expressive*

ASP (normal)

mf → *pp* → *ppp* → *f*

200

[ord. 1/2 pressure]

Vib. molto

SP

[ord. normal]

[ASP 1/2 pres.]

mf → *pp* → *mf* → *ff* → *f*

202

[ord. normal]

[SP 1/2 pressure]

[ord. normal]

poco rit.

SP

mf → *pp* → *f* → *mp*

204

accel. → a tempo

ord. 1/2 pressure

[ASP/ord. normal-1/2 pres.]

poco rit. → accel. → a tempo

[SP normal]

[ord. 1/2 pres → normal]

pp → *pin. fp* → *mf* → *pp* → *sfz* → *mf* → *mp*

206

1/2 pressure

NN *Light & focused*

normal

IVc.

3

5

IIIc. 6

SP

p → *pp* → *sfz* → *p* → *poco f*

208 ord. IVc. IIIc. 5 IVc. IIIc. 3 IIc. Ic. 7 *tr* *p* *sfz* *p* *f*

210 ASP ord. IIc. IIIc. IVc. IIIc. 3 IIc. Ic. SP ord. IIc. IIIc. IVc. pizz. IIc. *piu f* *pp* *sfz* *p* *poco f* *pp* *mp*

213 Let ring... (5) arco Ic. *tr* ASP ord. IIc. IIIc. IVc. IIIc. 3 IIc. *pp* *f* *pp*

215 *poco rit. rhythm as well* Ic. SP ord. IIc. IIIc. IVc. [ASP 1/2 pressure] *sfz* *p* *mf* *p* *ppp* *f*

218 *a tempo* ord. normal IVc. IIIc. 3 IIc. Ic. SP ord. IIc. IIIc. IVc. PSP ord. *pp* *sfz* *p* *poco f* *pp* *mf* *pp*

221 pizz. IIc. IIIc. Ic. Let ring... (8) arco IVc. 3 IIIc. IIc. Ic. ASP *p* *mp* *mf* *pp* *poco f*

224 pizz. rit. Ic. IIc. IIIc. IVc. IIIc. IIc. IIIc. Let ring... (11) *p* *f*

