Mohammad H. Javaheri

Ensemble Mosaik

**The performance consists of two separate parts**

I) **Mosaic Of Opacities**

Synths Improvisations for:

| | |
|---|---|
| Prophet 12 & Arturia PolyBrute 12 | Ernst Surberg & Mohammad H. Javaheri |
| Sound Diffusion | Fernando Lopez-Lezcano (Sound diffusion) |

II) **Void Facades**

Written Score for:

| | |
|---|---|
| Oboe & Cor Anglais | Plus Styrofoam and Bow |
| Percussion | Plus Styrofoam/Sandpaper Hard/Medium/Soft/Super Ball Mallets, Metal/Drumstick, and Bow |
| Synth (Prophet 12) + Max Patch (Tunning Systems) | Plus Two Expression Pedals, Styrofoam and Bow |
| Violin | Plus Styrofoam |
| Viola | Plus Styrofoam |
| Cello | Plus Styrofoam and Bow |

## Notes

1| Notes in parentheses should be played when possible; they are optional.

2| The synthesizer (Prophet 12) must prepare its sounds and tunings in advance. Also, it needs two expression Pedals.

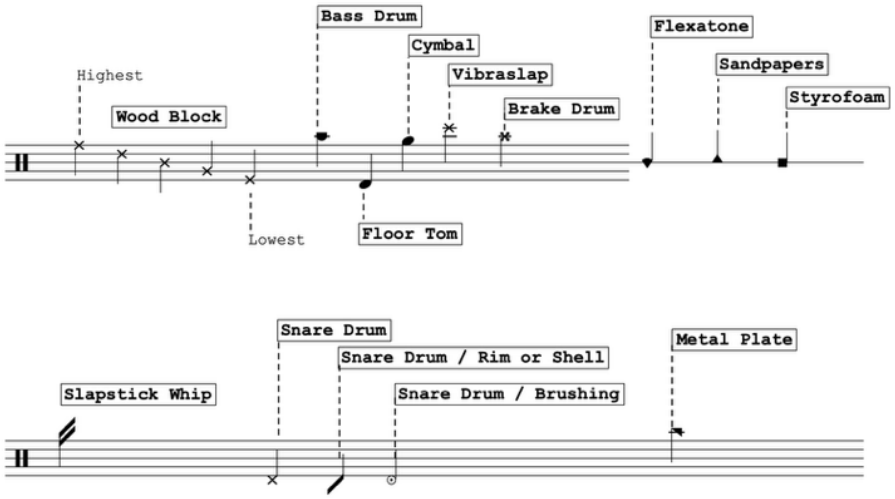
3| Oboe / cor anglais should vary its multiphonics each time. Even when the same fundamental pitch is used, each realization should differ slightly. These variations should be inspired by, or adjusted to, the synthesizer's tuning in that section, when applicable.

4| In urgent cases, percussion instruments may be compromised or replaced.

5| Instruments should preferably be amplified and routed through the same speakers as the synthesizer to create a blended texture.

6| The score is transposed.

## Percussion Staff Lines - Symbols/Note Heads



**Percussion List**

Wood Blocks (5)

Vibraslap

Flexatone

Bass Drum (Medium size)

Floor Tom

Suspended Cymbal

Snare Drum

Brake Drum

Metal Plate

Gong (G)

Vibraphone

Crotales [with 2x F#, 2x F]

Triangle

Styrofoam (2)

Sandpaper (2- rough)

-

Hard Mallet

Medium Mallet

Soft Mallet

Superball Mallet

Bow (2)

Drumstick (2)

Metal Stick

**Abbreviations**

| | |
|---|---|
| emst | Extreme Molto Sul Tasto |
| mst | Molto Sul Tasto |
| st or tasto | Sul Tasto |
| ord. | Ordinary |
| sp | Sul Ponticello |
| msp | Molto Sul Ponticello |
| ob | On the Bridge |
| VF | Very Fast Speed |
| M | Medium Speed |
| VS | Very Slow Speed |
| Gliss. | Glissando |
| Pizz. | Pizzicato |
| trem. | Tremolo |
| flaut. | Flautando |
| bis. | Bisbigliando (Timbral Trill) |
| Vib. | Vibrato |
| Pos. | Possible |

| | |
|---|---|
| clb | Col Legno Battuto |
| clt | Col Legno Tratto |
| clc | Col Legno Crini (half wood, half hair) |

# Void Facades

*Dedicated to Clemens Gadenstätter*

Mohammad H. Javaheri
Stanford - 2025

♩ = 76 Sharp

Oboe/Cor Anglais
|with bow &
Styrofoam|

[Adjust the dynamic with strings / Wood Blocks should be **audible**]
**Wood Block**

Percussion
|with bow,
Styrofoam &
Sandpapers|

*Synthesizer
|Prophet 12|
with Max Patch
| with bow &
Styrofoam|

To Styrofoam

♩ = 76 Sharp

[**Grand détaché** | Sharp, energetic, using a lot of bow]

Violin
|with Styrofoam|

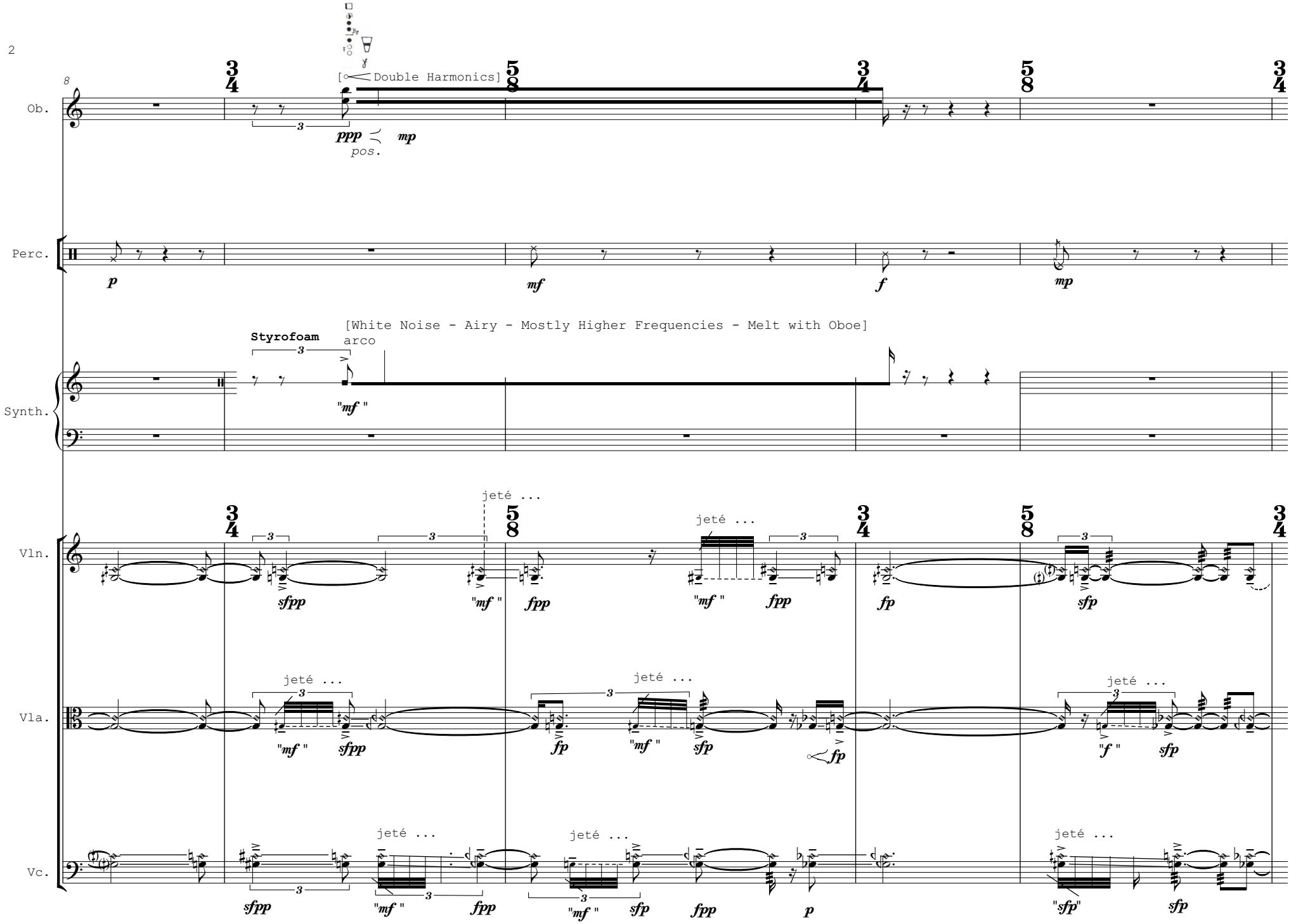
[**Grand détaché** | Sharp, energetic, using a lot of bow]

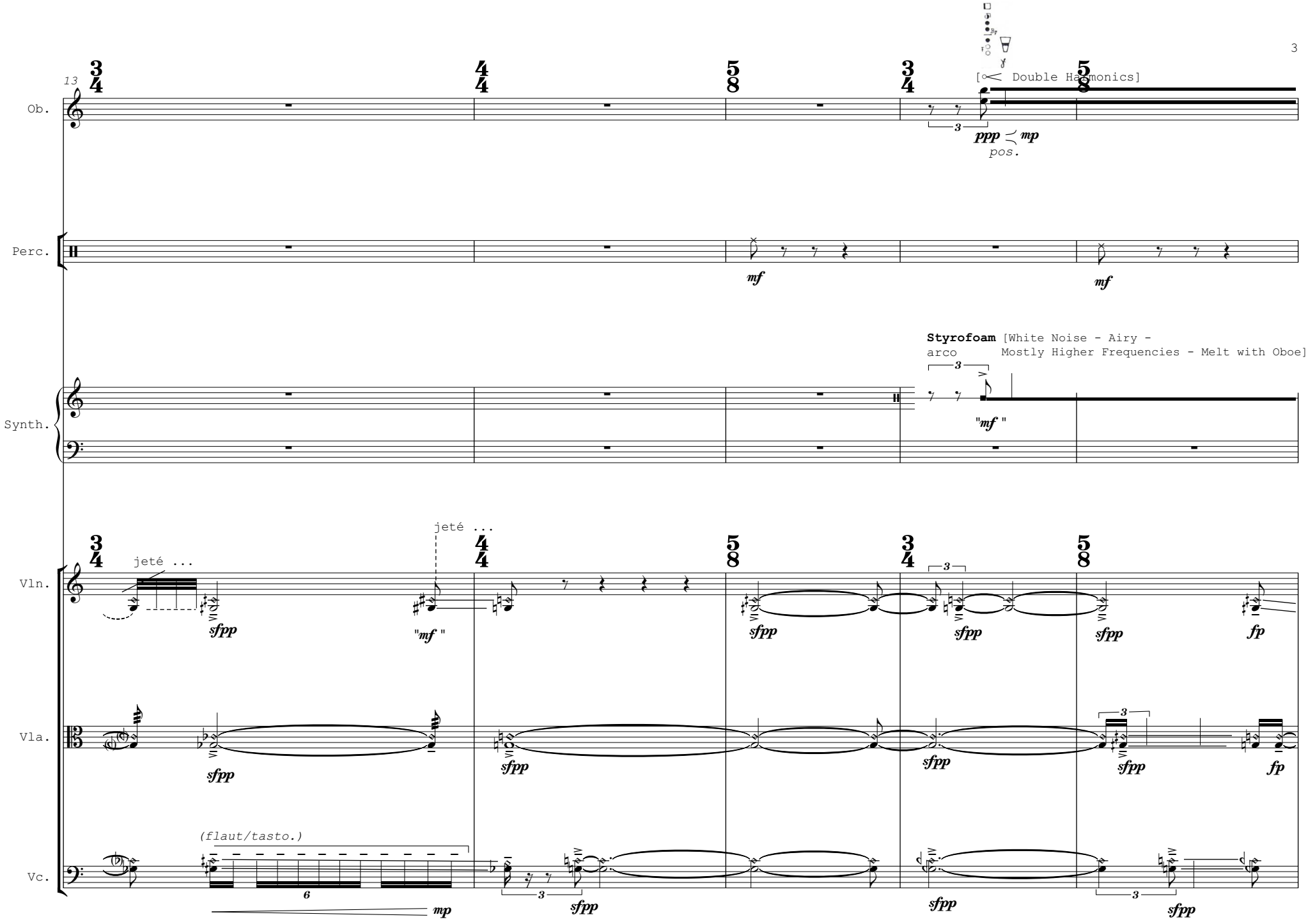
Viola
|with Styrofoam|

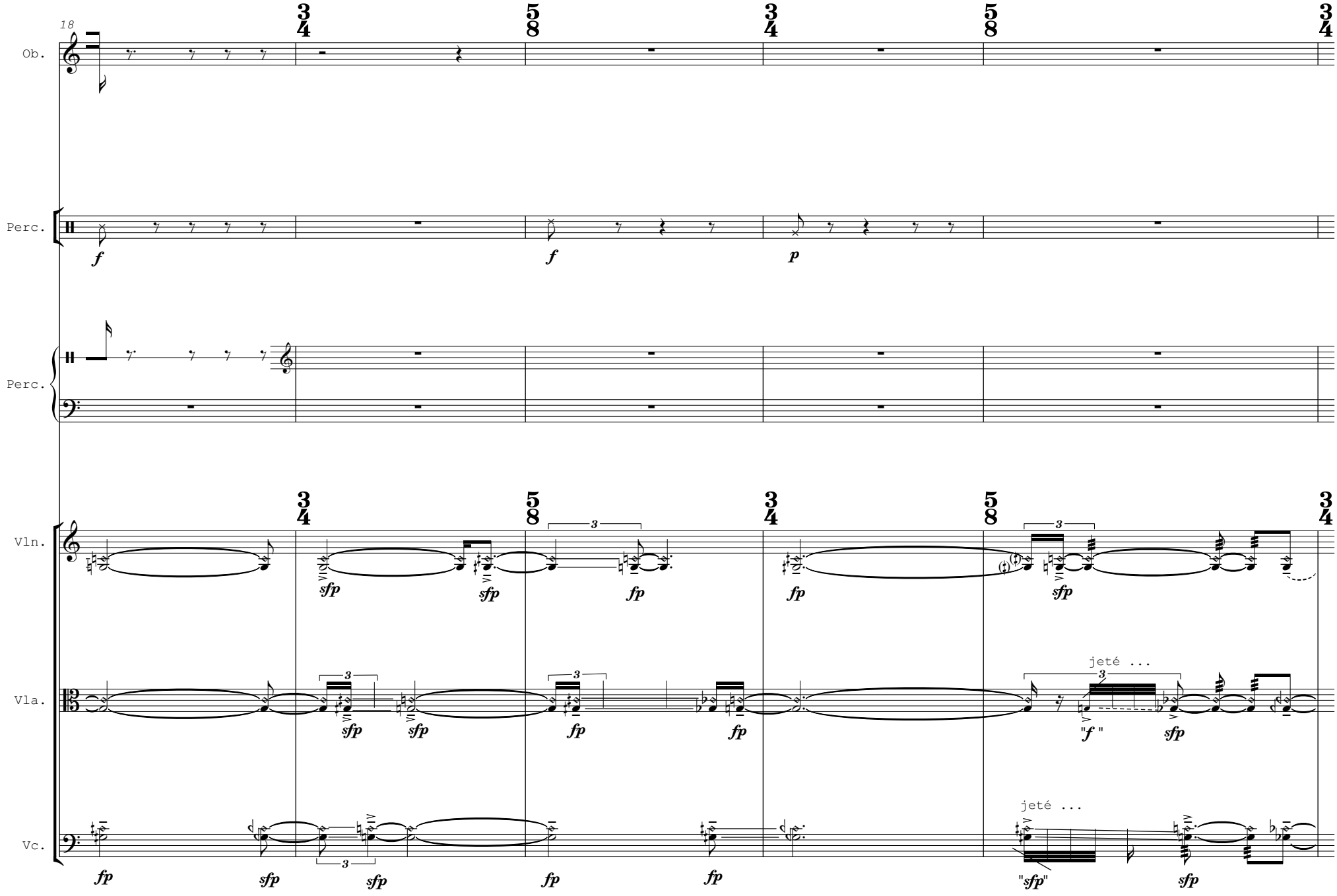
[**Grand détaché** | Sharp, energetic, using a lot of bow]
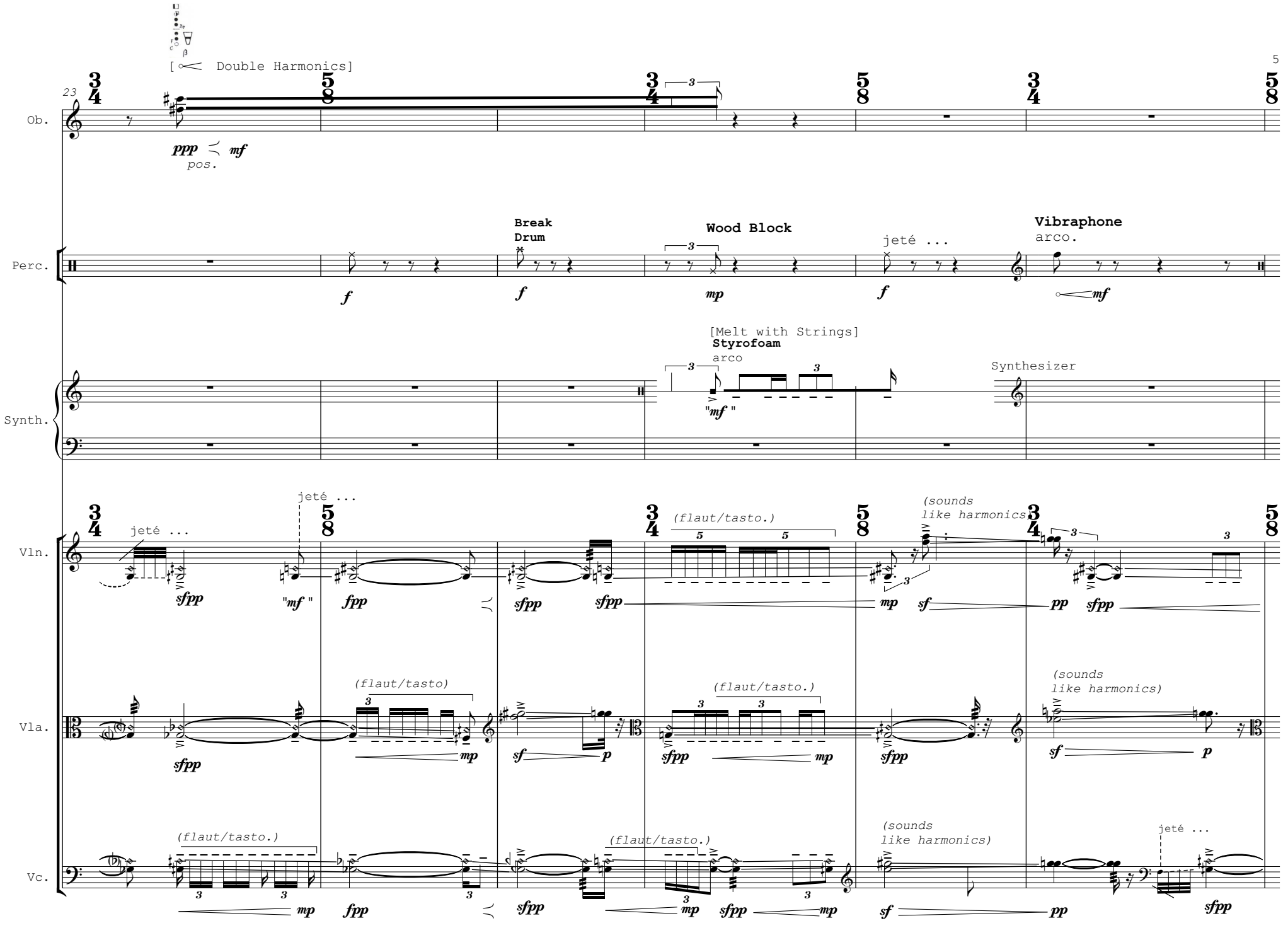
Violoncello
|with Styrofoam|
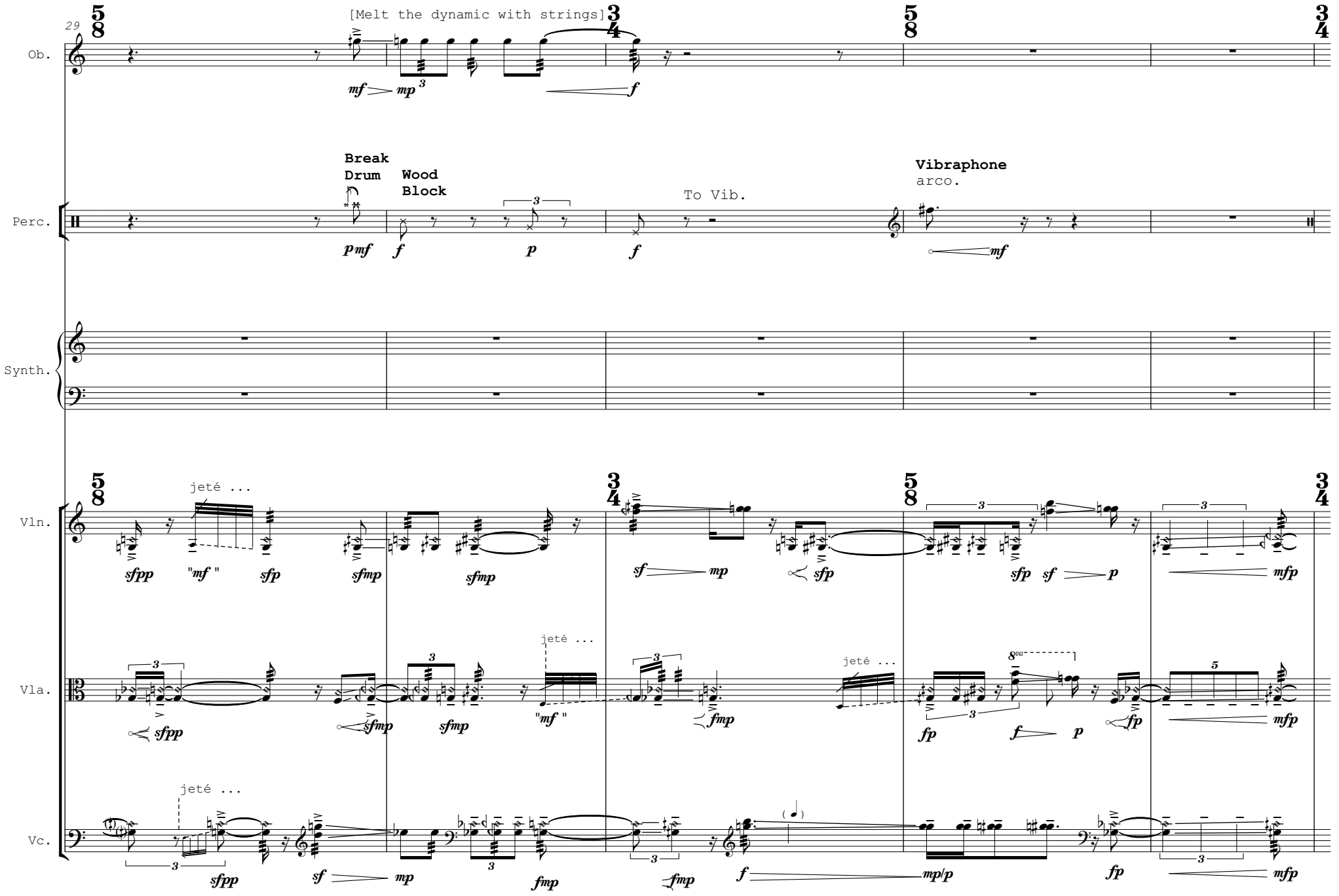
*[The synthesizer
should prepare all sounds and tuning systems in advance
to allow for immediate changes during the piece.]
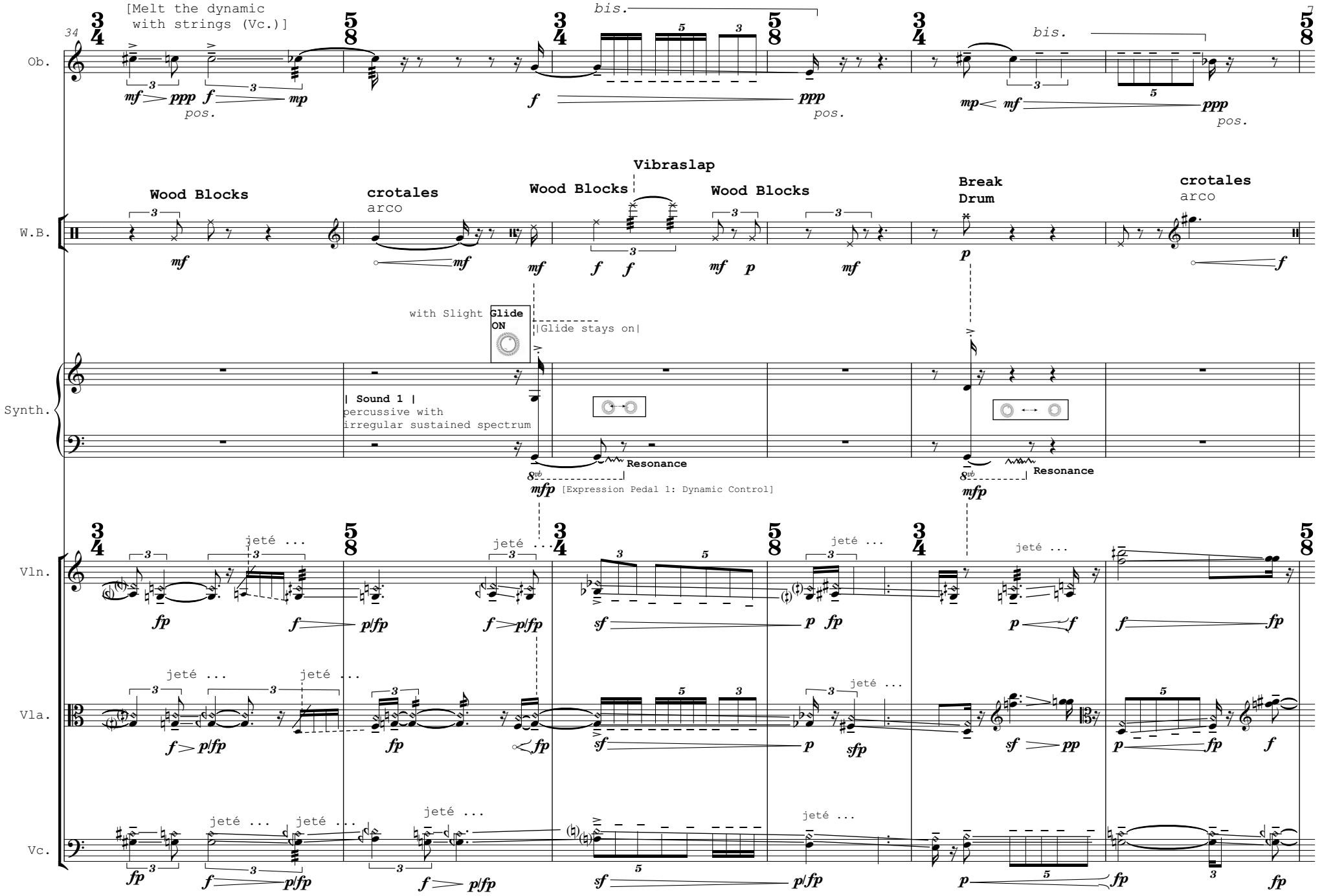

8
Ob.
[Double Harmonics]
ppp
pos.
mp
Perc.
p
mf
f
mp
[White Noise - Airy - Mostly Higher Frequencies - Melt with Oboe]
Styrofoam
arco
Synth.
"mf "
Vln.
jeté ...
sfpp
"mf "
fpp
fp
sfp
Vla.
"f "
Vc.
"sfp"
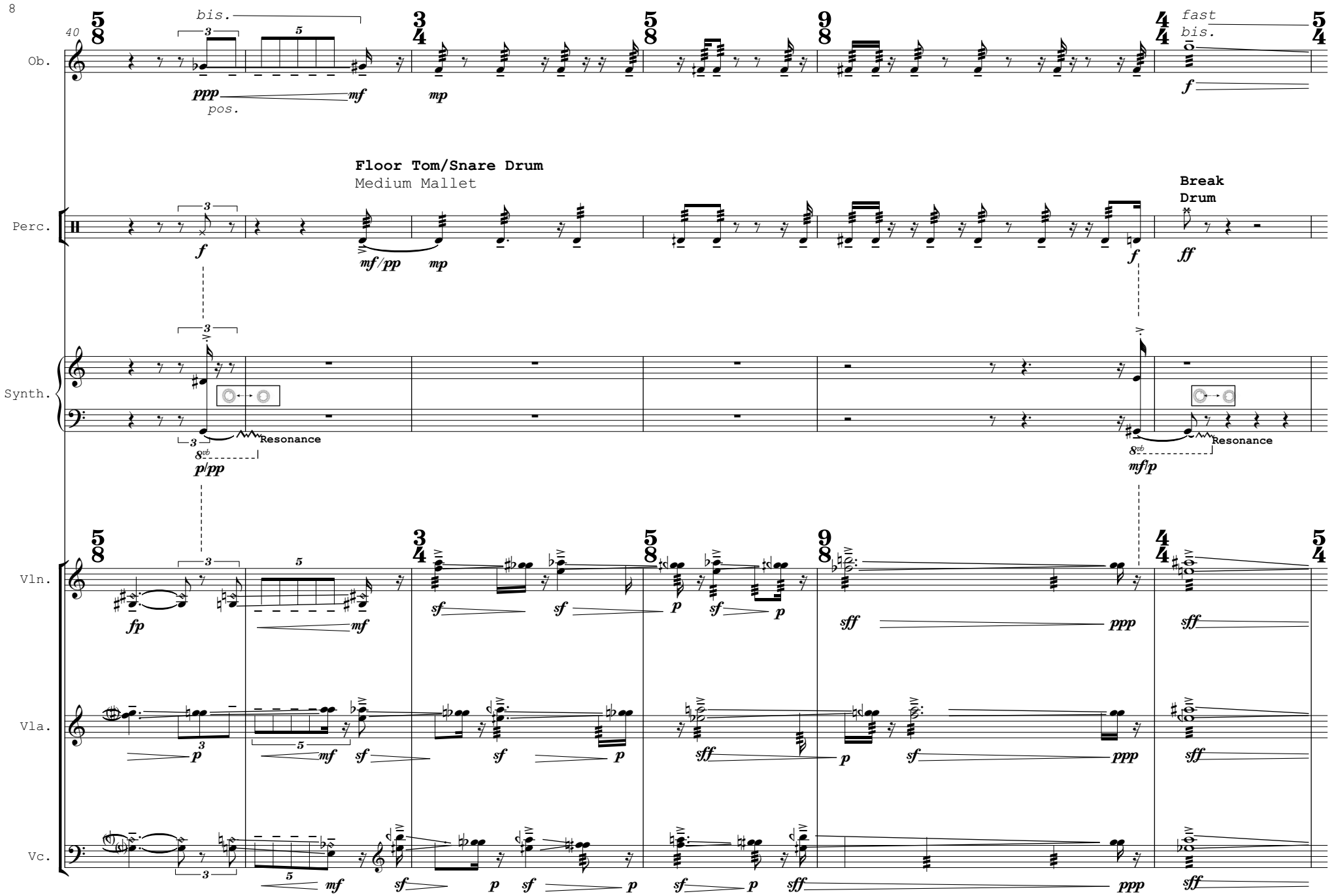

13
Ob.
[Double Harmonics]
ppp mp
pos.
Perc.
mf
mf
Synth.
Styrofoam [White Noise - Airy -
arco
Mostly Higher Frequencies - Melt with Oboe]
"mf "
Vln.
jeté ...
jeté ...
sfpp
"mf "
sfpp
sfpp
sfpp
fp
Vla.
sfpp
sfpp
sfpp
sfpp
fp
(flaut/tasto.)
Vc.
mp
sfpp
sfpp
sfpp
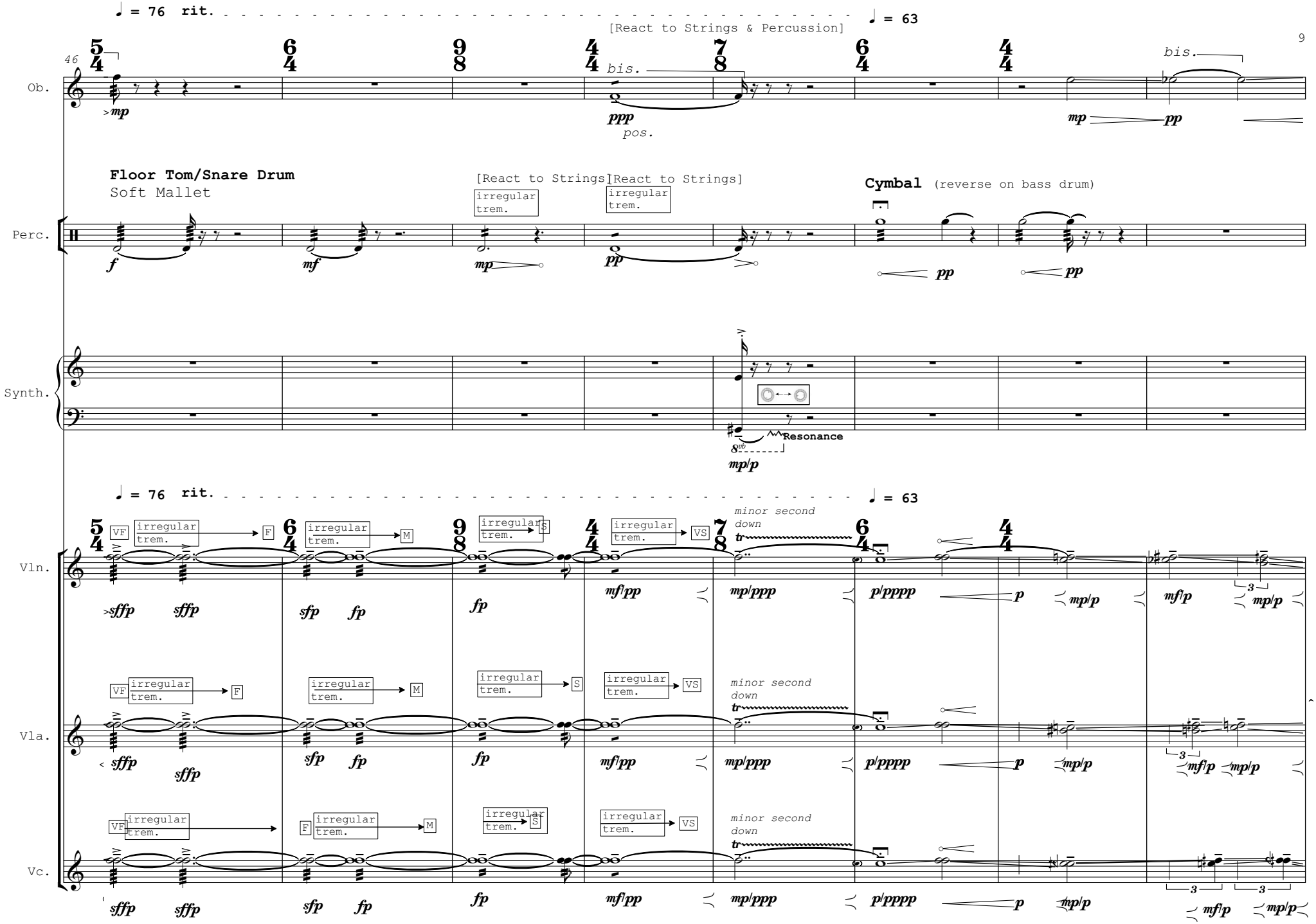

18
Ob.
Perc.
Perc.
Vln.
Vla.
Vc.
jeté ...
jeté ...
"f "
"sfp"

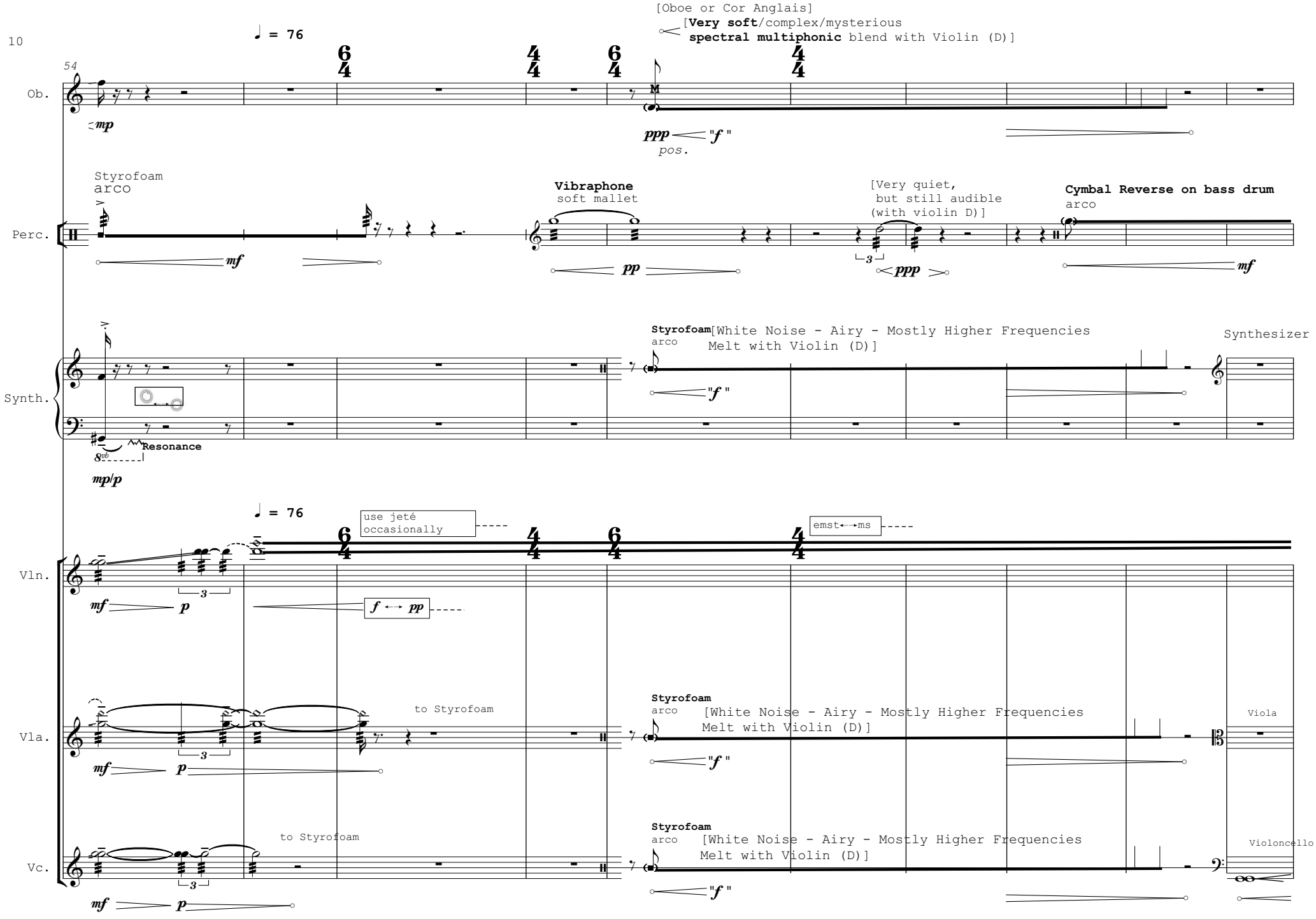

[ Double Harmonics]
23
Ob.
ppp
mf
pos.
Perc.
Break Drum
Wood Block
jeté ...
Vibraphone
arco.
f
mp
mf
[Melt with Strings]
Styrofoam
arco
"mf "
Synthesizer
Synth.
Vln.
jeté ...
sfpp
"mf "
fpp
(flaut/tasto.)
mp
sf
pp
(sounds like harmonics)
Vla.
(flaut/tasto)
p
Vc.


29
Ob.
[Melt the dynamic with strings]
Perc.
Break Drum
Wood Block
To Vib.
Vibraphone
arco.
Synth.
Vln.
jeté ...
Vla.
Vc.


34
[Melt the dynamic with strings (Vc.)]
bis.
pos.
Ob.
Wood Blocks
crotales
arco
Vibraslap
Break Drum
W.B.
with Slight Glide ON
Glide stays on
Synth.
| Sound 1 |
percussive with irregular sustained spectrum
Resonance
[Expression Pedal 1: Dynamic Control]
jeté ...
Vln.
Vla.
Vc.


40
bis.
pos.
fast
bis.
Ob.
Floor Tom/Snare Drum
Medium Mallet
Break
Drum
Perc.
Resonance
Resonance
Synth.
Vln.
Vla.
Vc.


♩ = 76 rit.
♩ = 63
[React to Strings & Percussion]
46
Ob.
bis.
pos.
Floor Tom/Snare Drum
Soft Mallet
[React to Strings]
[React to Strings]
irregular trem.
Cymbal (reverse on bass drum)
Perc.
Synth.
Resonance
VF
F
M
S
VS
minor second down
Vln.
Vla.
Vc.


54
♩ = 76
[Oboe or Cor Anglais]
[Very soft/complex/mysterious
spectral multiphonic blend with Violin (D)]
Ob.
mp
ppp
"f"
pos.
Styrofoam
arco
Vibraphone
soft mallet
[Very quiet,
but still audible
(with violin D)]
Cymbal Reverse on bass drum
arco
Perc.
mf
pp
ppp
mf
Styrofoam
arco
[White Noise - Airy - Mostly Higher Frequencies
Melt with Violin (D)]
Synthesizer
Synth.
Resonance
mp/p
"f"
♩ = 76
use jeté
occasionally
emst ms
Vln.
mf
p
f pp
to Styrofoam
Vla.
mf
p
Styrofoam
arco
[White Noise - Airy - Mostly Higher Frequencies
Melt with Violin (D)]
"f"
Viola
to Styrofoam
Vc.
mf
p
Styrofoam
arco
[White Noise - Airy - Mostly Higher Frequencies
Melt with Violin (D)]
"f"
Violoncello

64

Ob.

**Multiphonic**
with high partials

mf p pos. ff

p pos. ff p pos. ff p pos. ff p pos. ff p pos. ff p pos. ff p pos. ff

with the dynamics as much as possible

Perc.

(+ Break
Drum hit with wood of the bow)
**Vibraslap**

**Bass Drum**
**+ Gong**

mf

**Slapstick Whip**

ff

Synth.

Gliss Upward with
Pitch Bend Wheel

ff

Ped.

Vln.

sf

(< III)
emst.

msp.

fff

sfz

Vla.

mf

sff

(< II)
emst.

msp.

fff

sfz

Vc.

mf

sff

(< II)
emst.

msp.

fff

sfz

70

Ob.

W.B.

**Floor Tom**
Hard Mallet

*ff*

Synth.

**| Rumbling Sound |**

[**Soloistic approach** | subtle changes with **spontaneous** shocks]

[Expression Pedal 2: Process Control - constant subtle changes with the knobs including **Cut off / Filter** knobs to simulate the simulate | *fp* ↔ *f* *p* *fp* & *f* to *p* gesture in addition to the written changes in dynamic]

(*8va or 15ma*)

*sffp*

[Pedal 2: Dynamic]

*p*

***play as long as it is needed!**

(*8vb or 15mb*)

Use the Hold Button to sustain

Vln.

Vla.

Vc.

(*flaut/tasto.*)

*p*

*mp/p*

3

arco.

*mp*

*pp*

75

[Oboe or Cor Anglais
(Sounding D)]
[Melt with Synth]

[Oboe or Cor Anglais
(Sounding D quarter sharp)]
[Melt with Synth]

Ob.

W.B.

Gong (G)
Super Mallet
Jete ... ------

Synth.
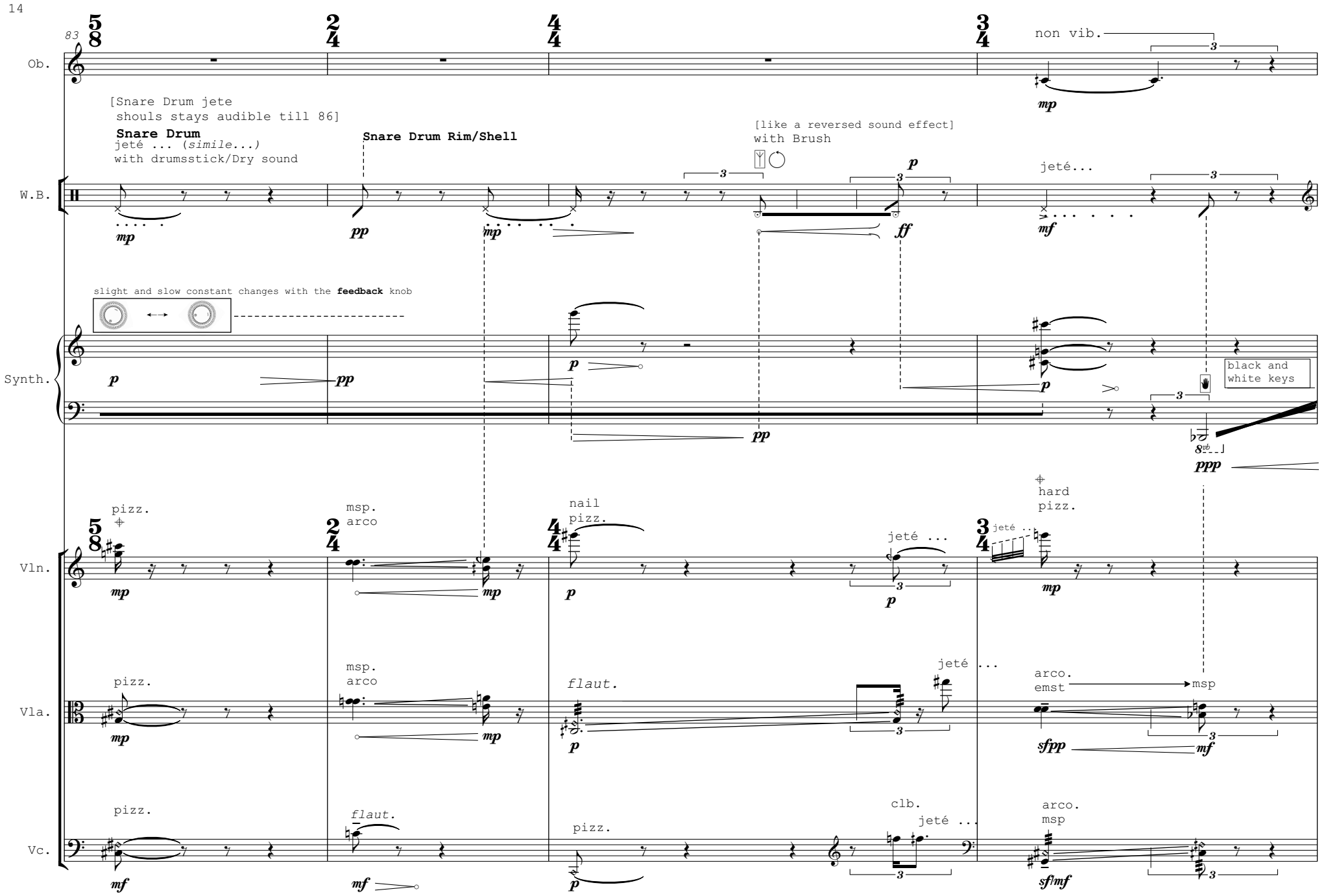
Vln.

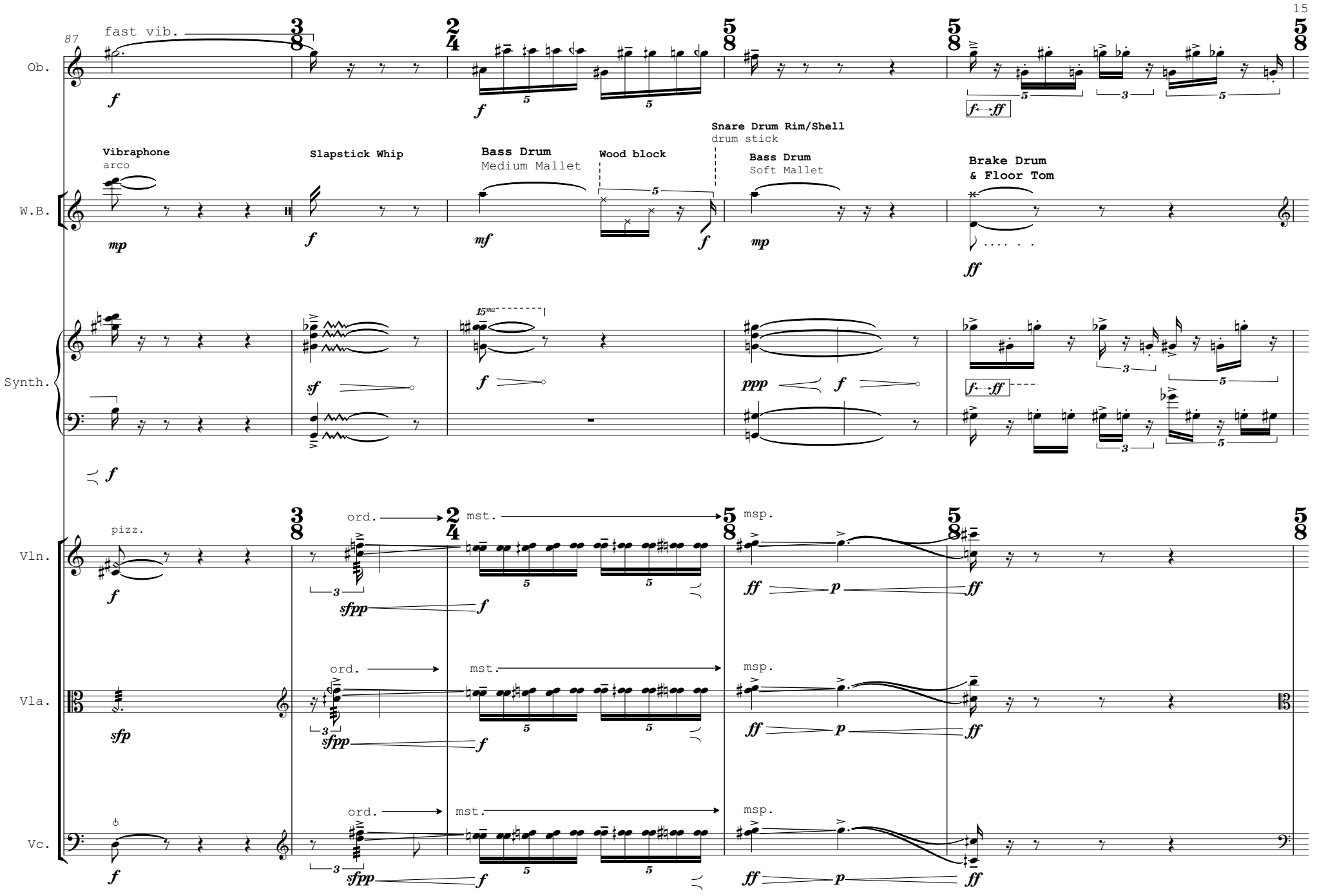
Vla.
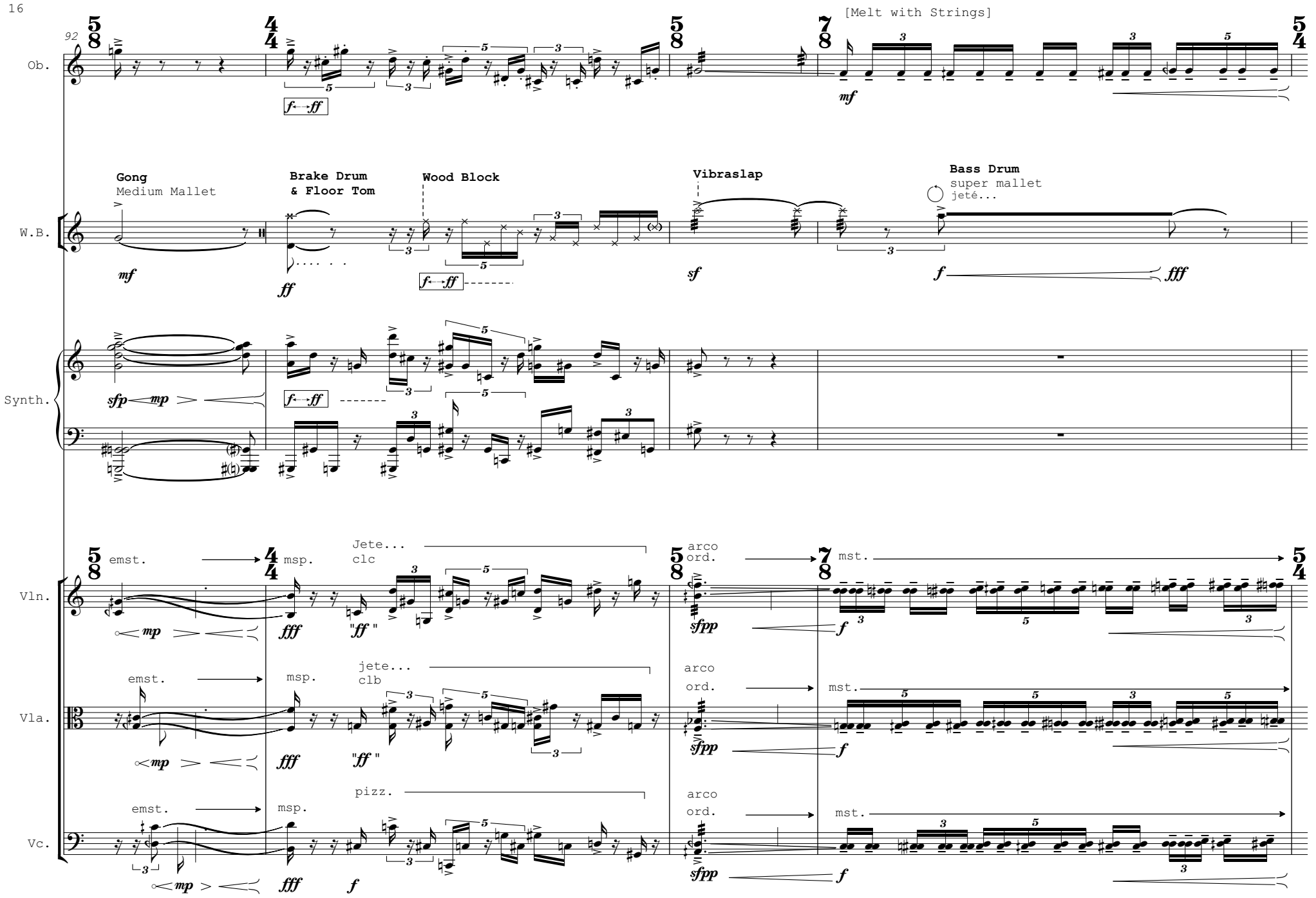
Vc.
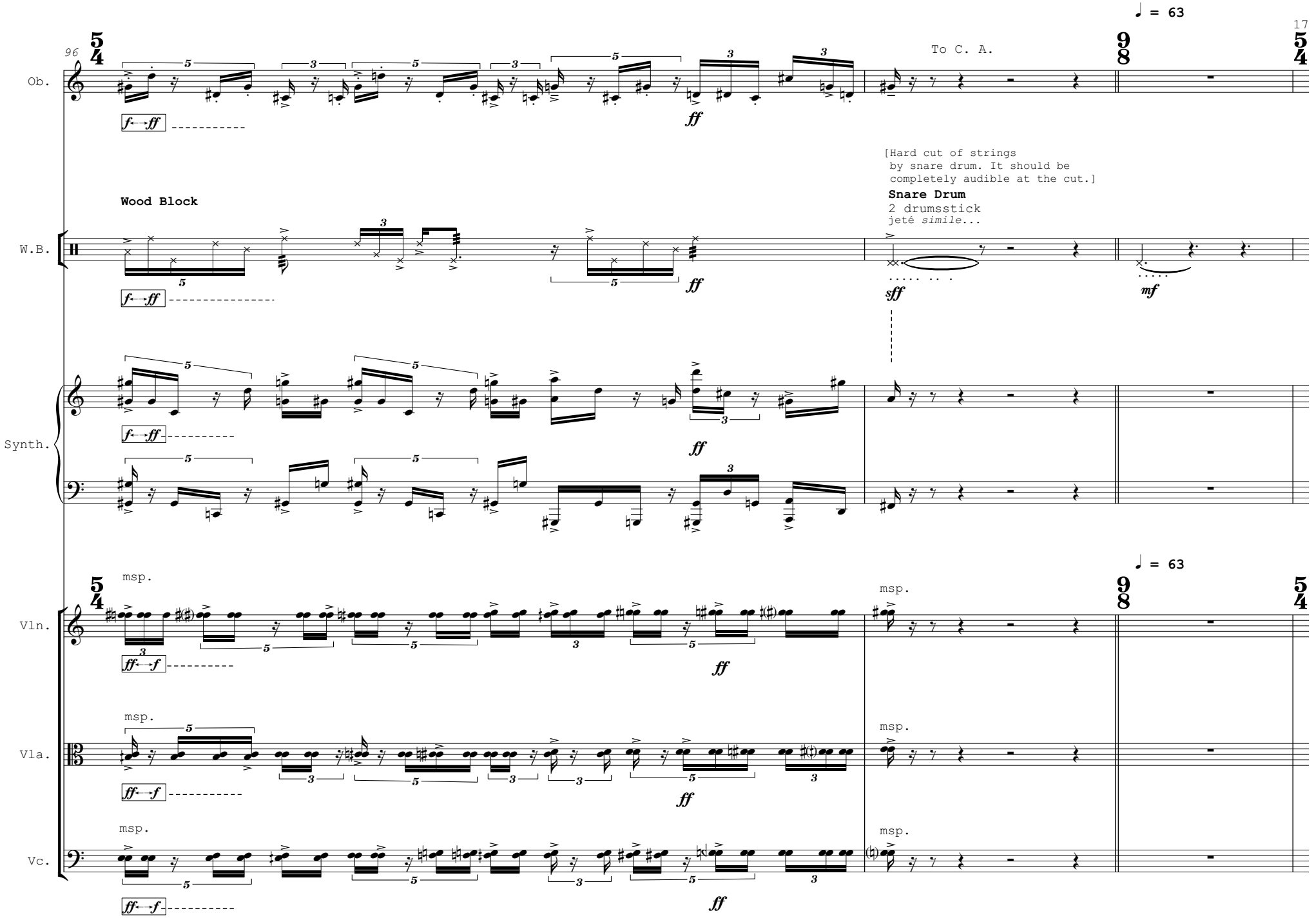
(flaut/
tasto.)

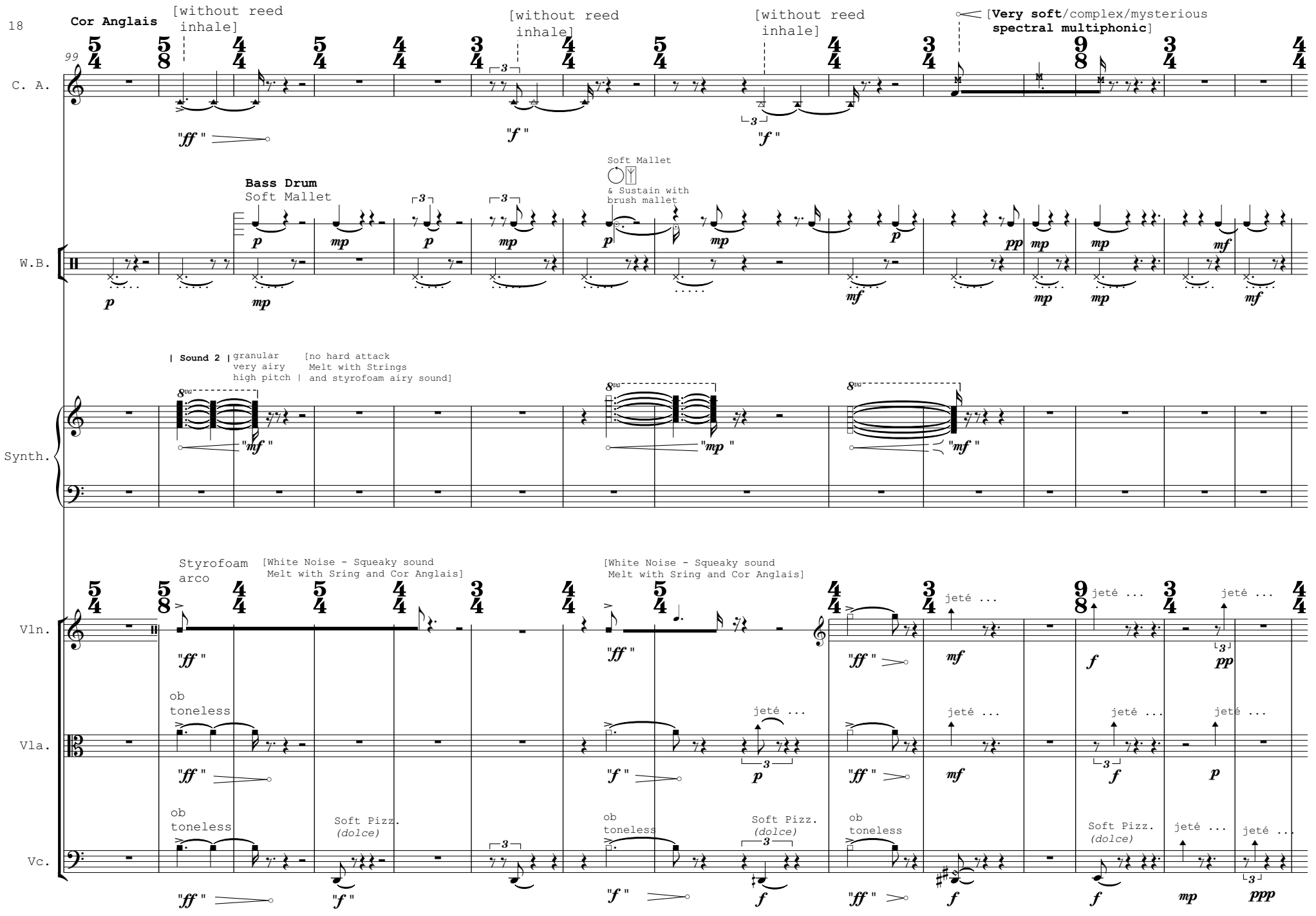
(flaut/
Tasto.)

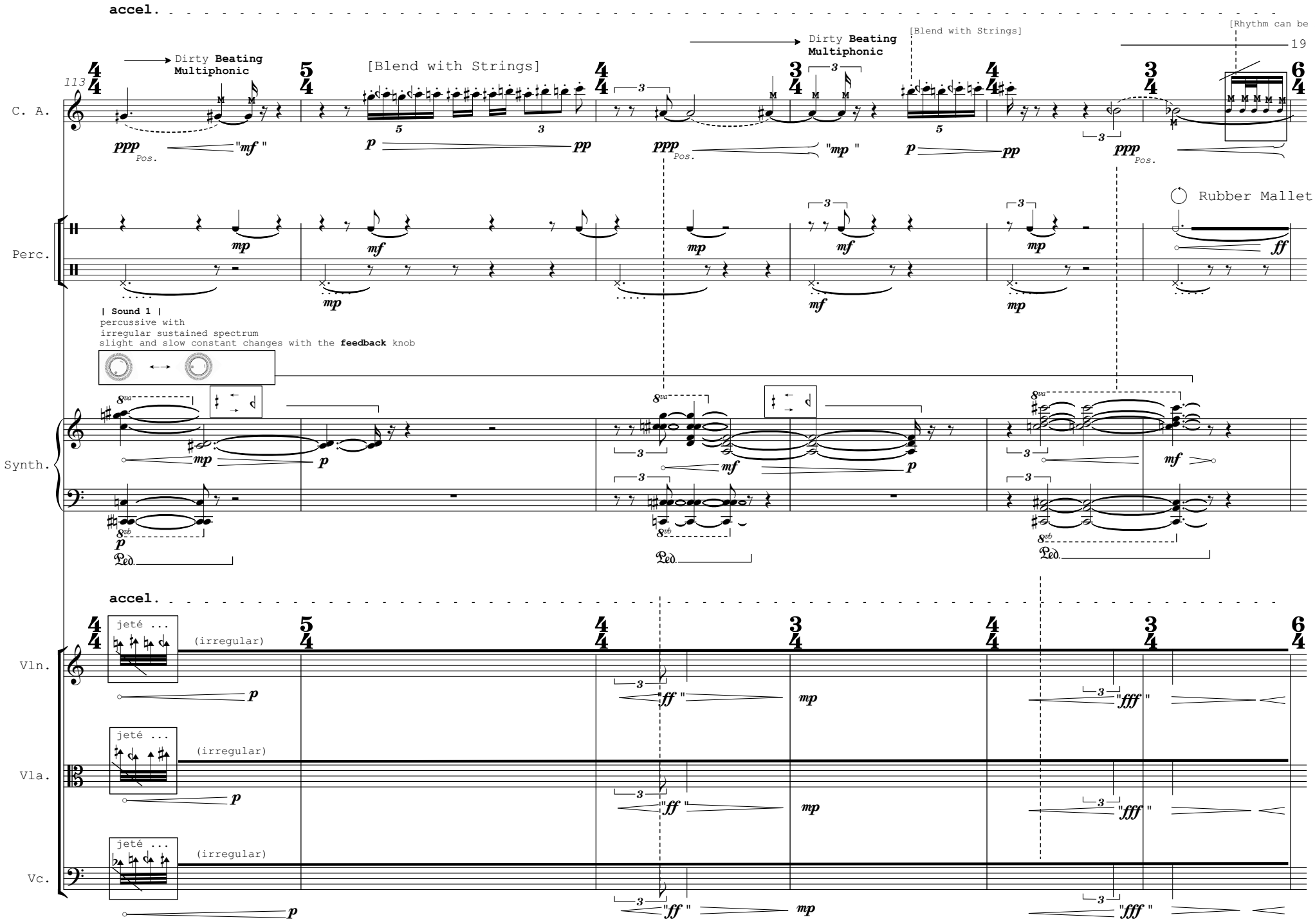

83
Ob.
non vib.
[Snare Drum jete
shouls stays audible till 86]
Snare Drum
jeté ... (simile...)
with drumsstick/Dry sound
Snare Drum Rim/Shell
[like a reversed sound effect]
with Brush
jeté...
W.B.
slight and slow constant changes with the feedback knob
Synth.
black and
white keys
pizz.
msp.
arco
nail
pizz.
jeté ...
hard
pizz.
Vln.
pizz.
msp.
arco
flaut.
jeté ...
arco.
emst
msp
Vla.
pizz.
flaut.
pizz.
clb.
jeté ...
arco.
msp
Vc.

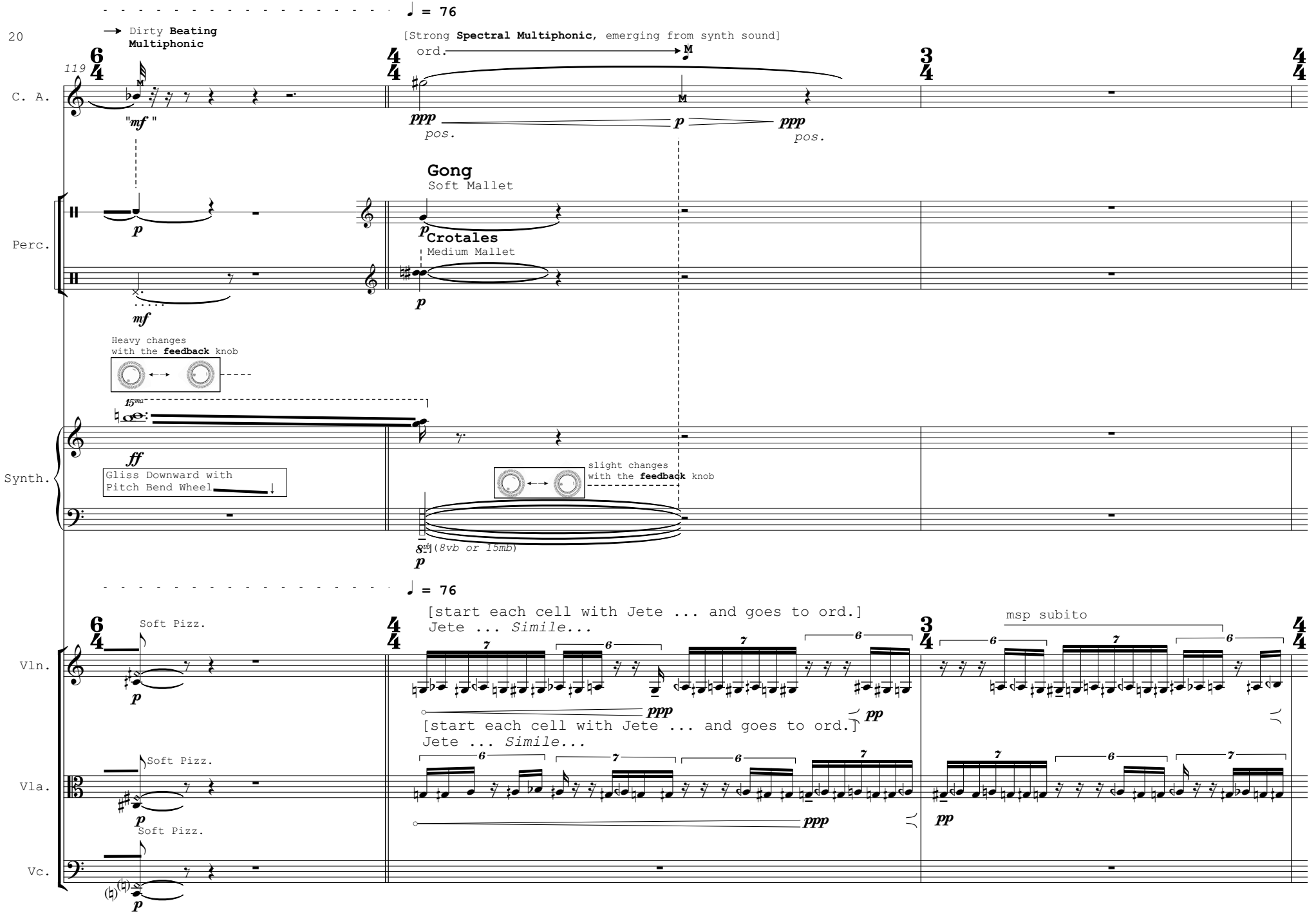

87
fast vib.
Ob.
W.B.
Vibraphone
arco
Slapstick Whip
Bass Drum
Medium Mallet
Wood block
Snare Drum Rim/Shell
drum stick
Bass Drum
Soft Mallet
Brake Drum
& Floor Tom
Synth.
15ma
pizz.
Vln.
ord.
mst.
msp.
Vla.
Vc.

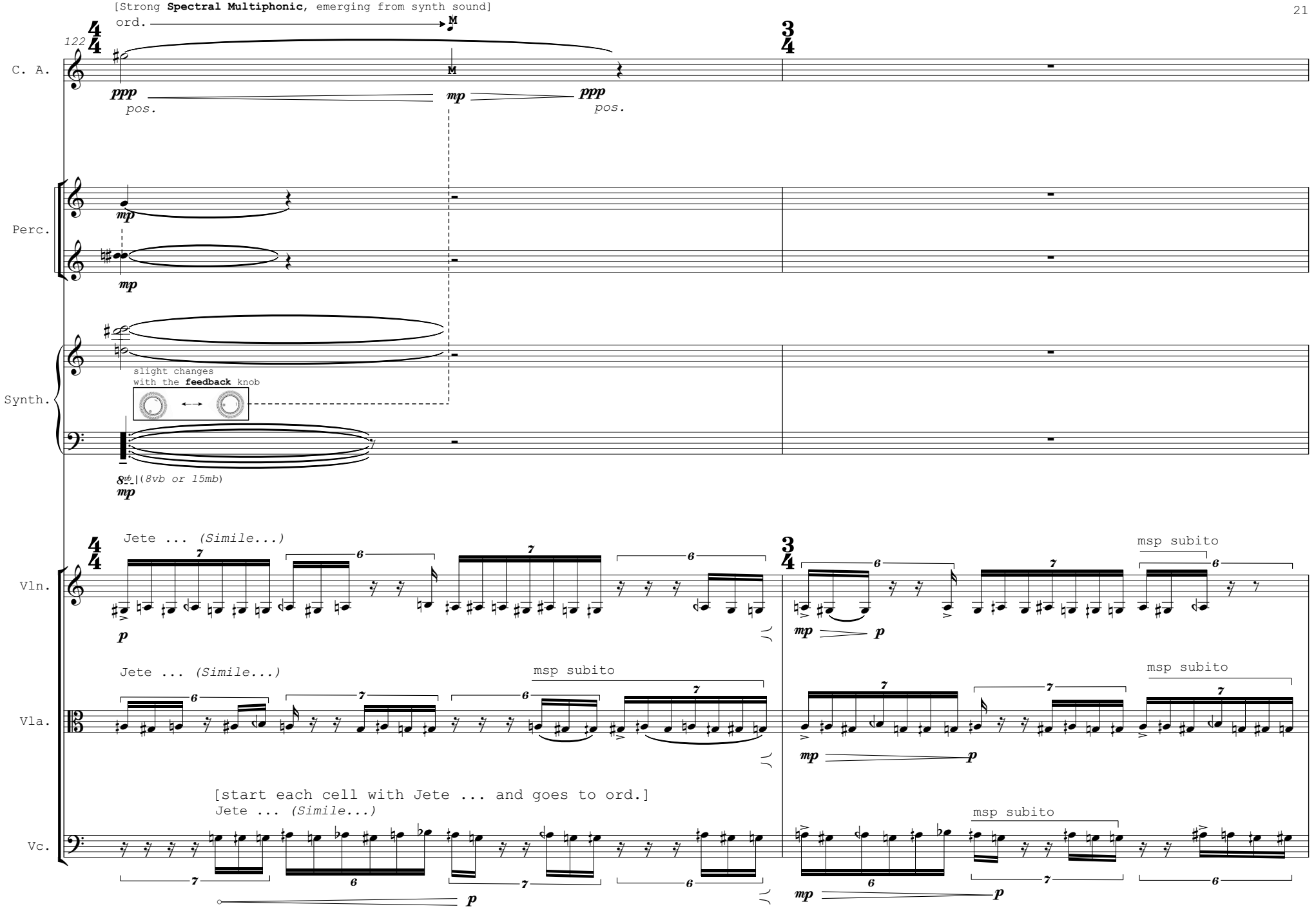

92
[Melt with Strings]
Ob.
W.B.
Gong
Medium Mallet
Brake Drum
& Floor Tom
Wood Block
Vibraslap
Bass Drum
super mallet
jeté...
Synth.
Vln.
Vla.
Vc.
emst.
msp.
Jete...
clc
jete...
clb
pizz.
arco
ord.
mst.
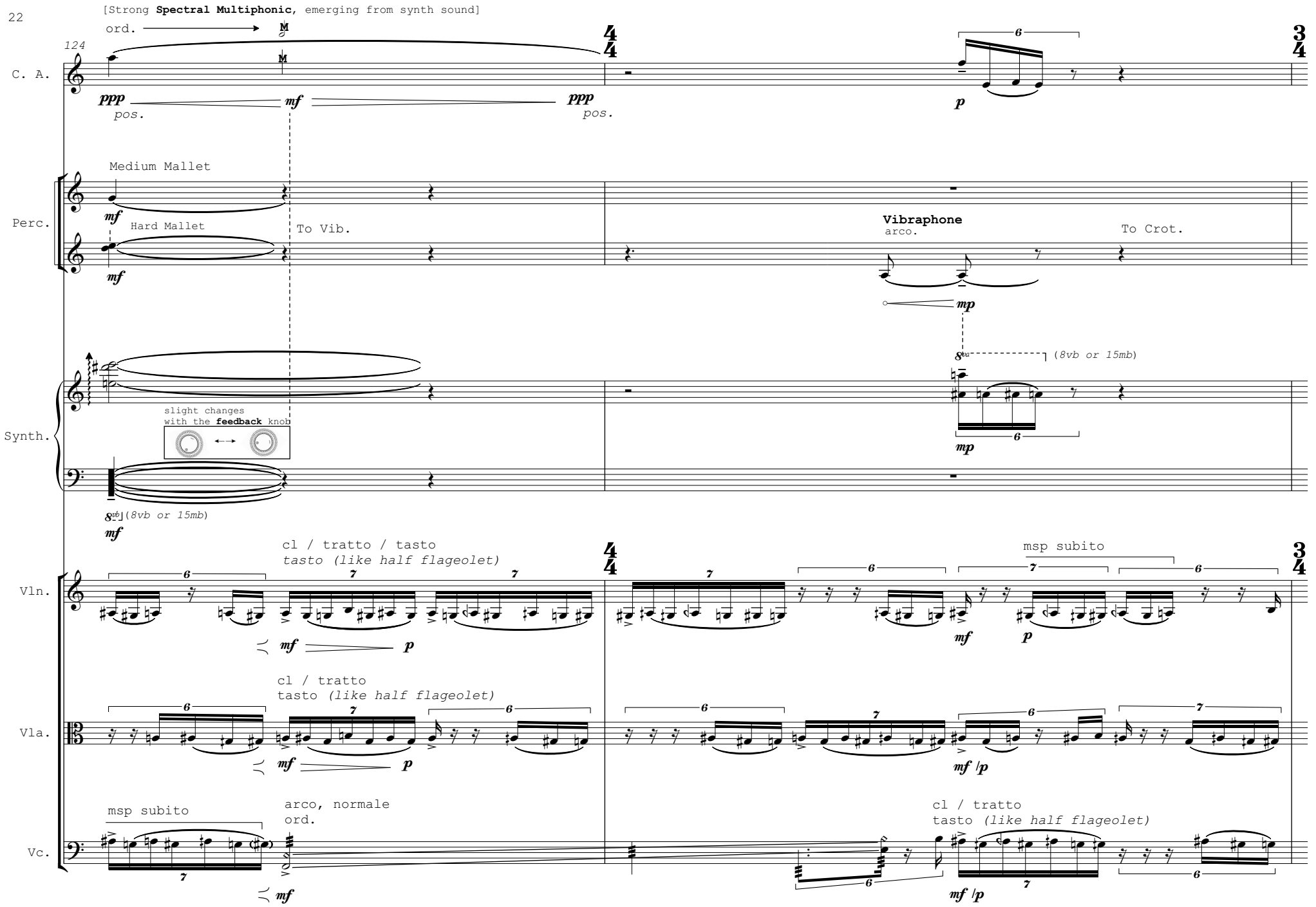

96
♩ = 63
To C. A.
Ob.
f ff
ff
[Hard cut of strings
by snare drum. It should be
completely audible at the cut.]
Wood Block
Snare Drum
2 drumsstick
jeté simile...
W.B.
sff
mf
Synth.
msp.
Vln.
Vla.
Vc.


Cor Anglais
[without reed inhale]
[without reed inhale]
[without reed inhale]
[Very soft/complex/mysterious spectral multiphonic]
C. A.
Bass Drum
Soft Mallet
Soft Mallet
& Sustain with brush mallet
W.B.
| Sound 2 | granular very airy high pitch |
[no hard attack Melt with Strings and styrofoam airy sound]
Synth.
Styrofoam
arco
[White Noise - Squeaky sound Melt with Sring and Cor Anglais]
[White Noise - Squeaky sound Melt with Sring and Cor Anglais]
jeté ...
Vln.
ob
toneless
Vla.
Soft Pizz.
(dolce)
Vc.


accel.
113
Dirty Beating Multiphonic
[Blend with Strings]
Dirty Beating Multiphonic
[Blend with Strings]
[Rhythm can be irregular]
19
C. A.
Perc.
Rubber Mallet
| Sound 1 |
percussive with
irregular sustained spectrum
slight and slow constant changes with the feedback knob
Synth.
accel.
Vln.
Vla.
Vc.
jeté ...
(irregular)


♩ = 76
→ Dirty Beating Multiphonic
[Strong Spectral Multiphonic, emerging from synth sound]
ord.
119
C. A.
"mf "
ppp
pos.
p
ppp
pos.
Gong
Soft Mallet
Perc.
p
Crotales
Medium Mallet
p
mf
Heavy changes with the feedback knob
15ma
ff
Synth.
Gliss Downward with Pitch Bend Wheel
slight changes with the feedback knob
8vb
(8vb or 15mb)
p
♩ = 76
[start each cell with Jete ... and goes to ord.]
Jete ... Simile...
Soft Pizz.
Vln.
p
ppp
pp
msp subito
[start each cell with Jete ... and goes to ord.]
Jete ... Simile...
Soft Pizz.
Vla.
p
ppp
pp
Soft Pizz.
Vc.
p


[Strong **Spectral Multiphonic**, emerging from synth sound]
ord.
122
C. A.
ppp
pos.
mp
ppp
pos.
Perc.
mp
mp
Synth.
slight changes
with the **feedback** knob
8vb
(8vb or 15mb)
mp
Jete ... (Simile...)
Vln.
p
mp
p
msp subito
Jete ... (Simile...)
Vla.
msp subito
mp
p
msp subito
[start each cell with Jete ... and goes to ord.]
Jete ... (Simile...)
Vc.
p
msp subito
mp
p


[Strong **Spectral Multiphonic**, emerging from synth sound]
ord.
124
C. A.
ppp
pos.
mf
ppp
pos.
4/4
3/4
p
Perc.
Medium Mallet
mf
Hard Mallet
mf
To Vib.
Vibraphone
arco.
To Crot.
mp
Synth.
slight changes
with the **feedback** knob
8va (8vb or 15mb)
mp
8vb (8vb or 15mb)
mf
Vln.
cl / tratto / tasto
tasto (like half flageolet)
mf
p
msp subito
mf
p
Vla.
cl / tratto
tasto (like half flageolet)
mf
p
mf /p
Vc.
msp subito
arco, normale
ord.
mf
cl / tratto
tasto (like half flageolet)
mf /p

[Strong **Spectral Multiphonic**, emerging from synth sound]

126

C. A.

ord. M

*ppp* *mf* *ppp*

*pos.* *pos.*

*p*

Perc.

**Crotales**

Hard Mallet

To Vib.

*mp*

**Vibraphone**

arco.

To Crot.

*mp*

Synth.

slight changes with the **feedback** knob

*mp*

Vln.

ord.

*mf*

cl / tratto

msp. (like half flageolet)

*sf* *mp*

Vla.

ord.

*mf*

*p*

cl / tratto

msp. (like half flageolet)
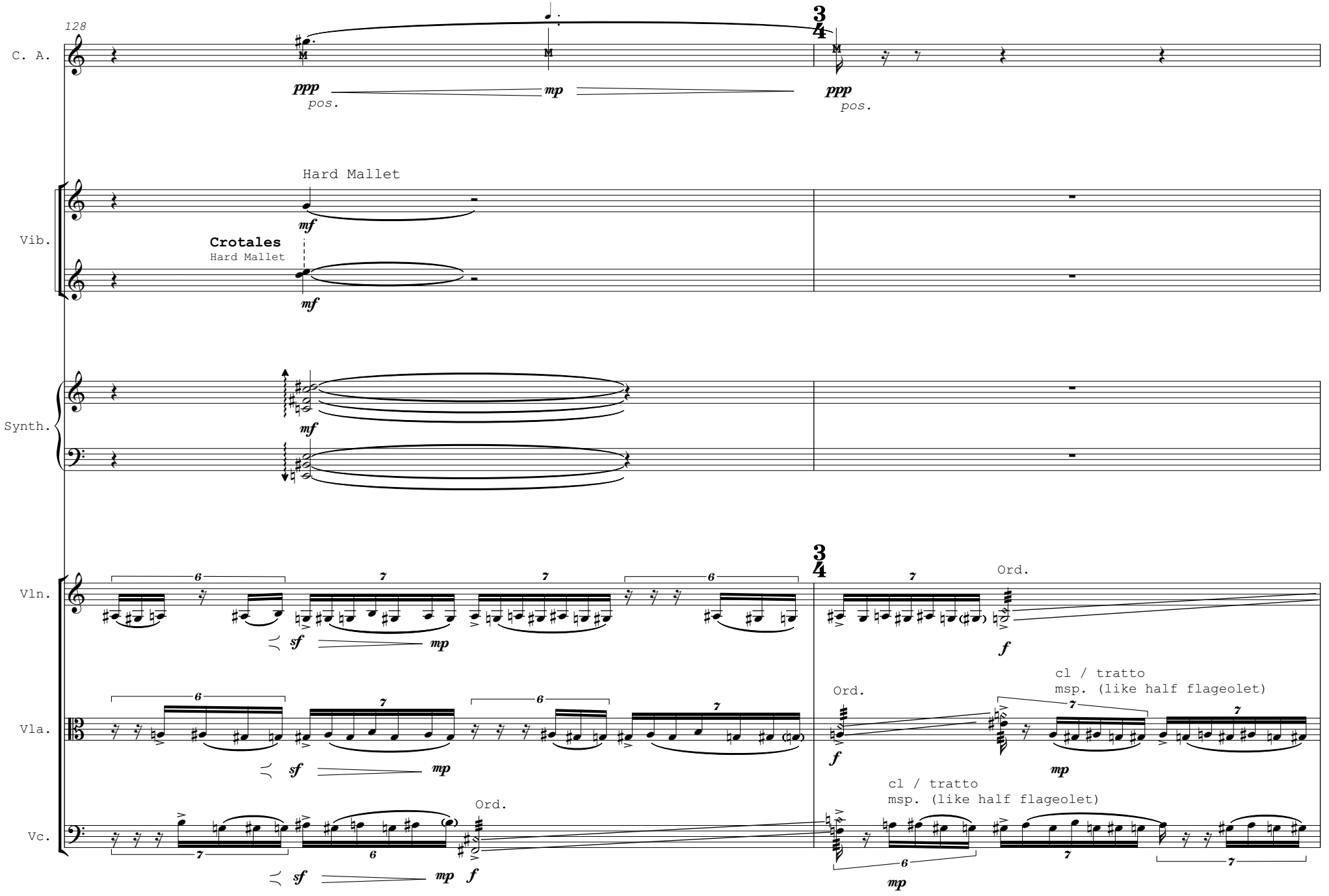
*sf* *mp*

Vc.

msp subito

*sf* *mp*

[Strong **Spectral Multiphonic,** emerging from synth sound]



poco accel.

[Strong **Spectral Multiphonic**, emerging from synth sound]

130

C. A.

ppp mf ppp p

pos. pos.

To B. D.

Perc.

p mp

**Vibraphone**

arco.

mp

[like an arp.]

8va (8vb or 15mb)

Synth.

mp mp

[like an arp.]

poco accel.

Harmonic Pizz. F4
or Nail Pizz. F6

cl / tratto
msp. (like half flageolet)

Vln.

mp sf pp mp f fff

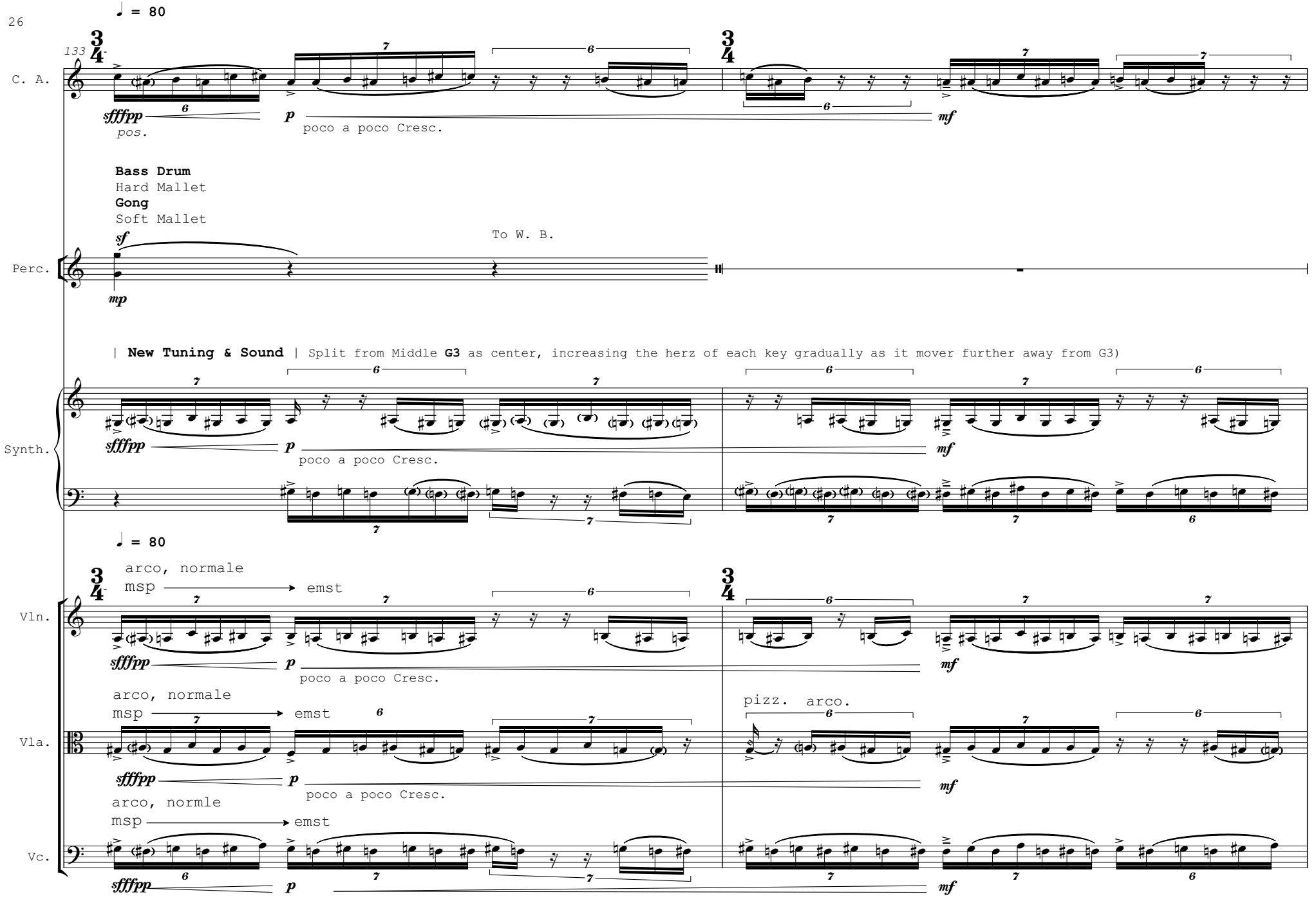
pos.

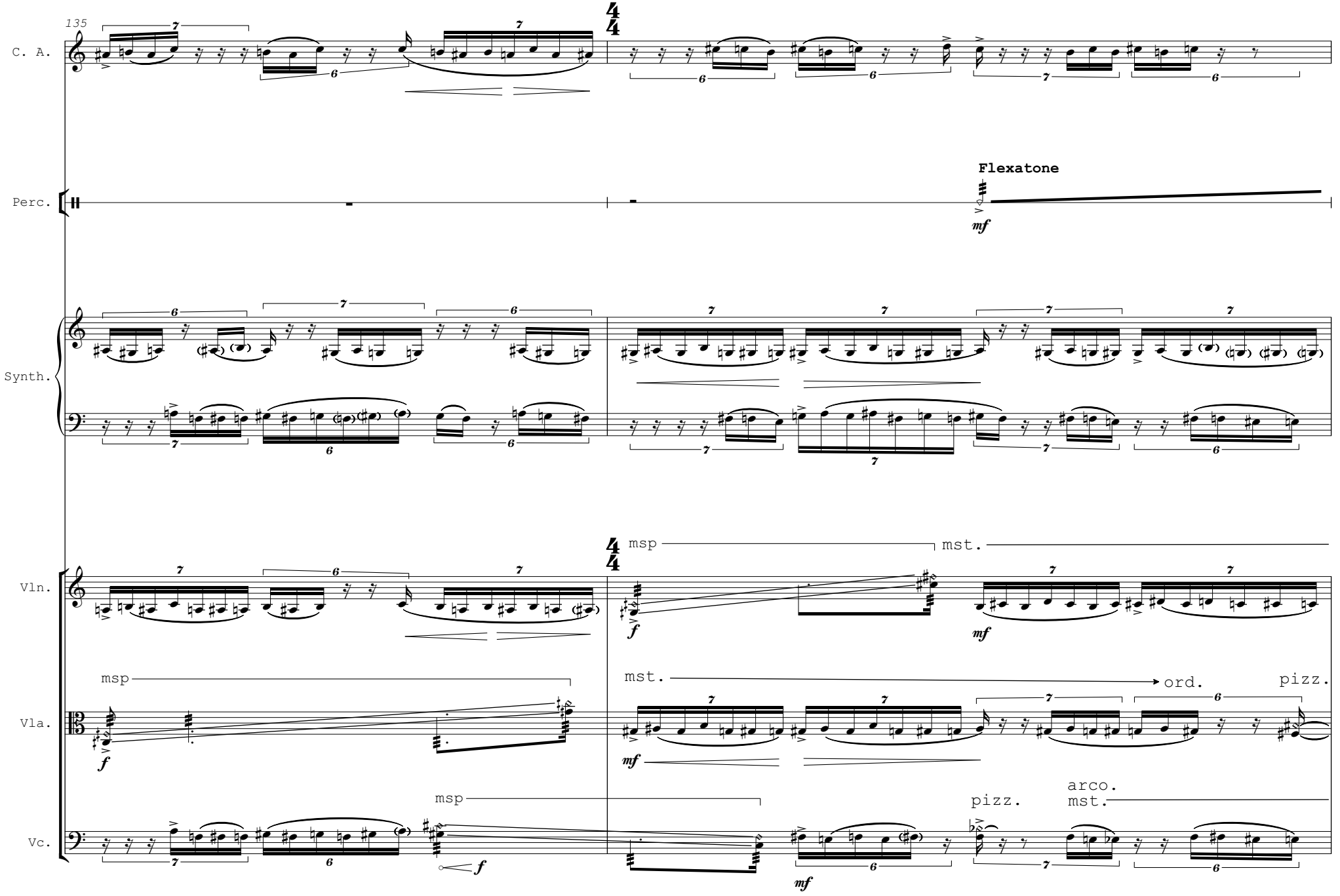
Vla.
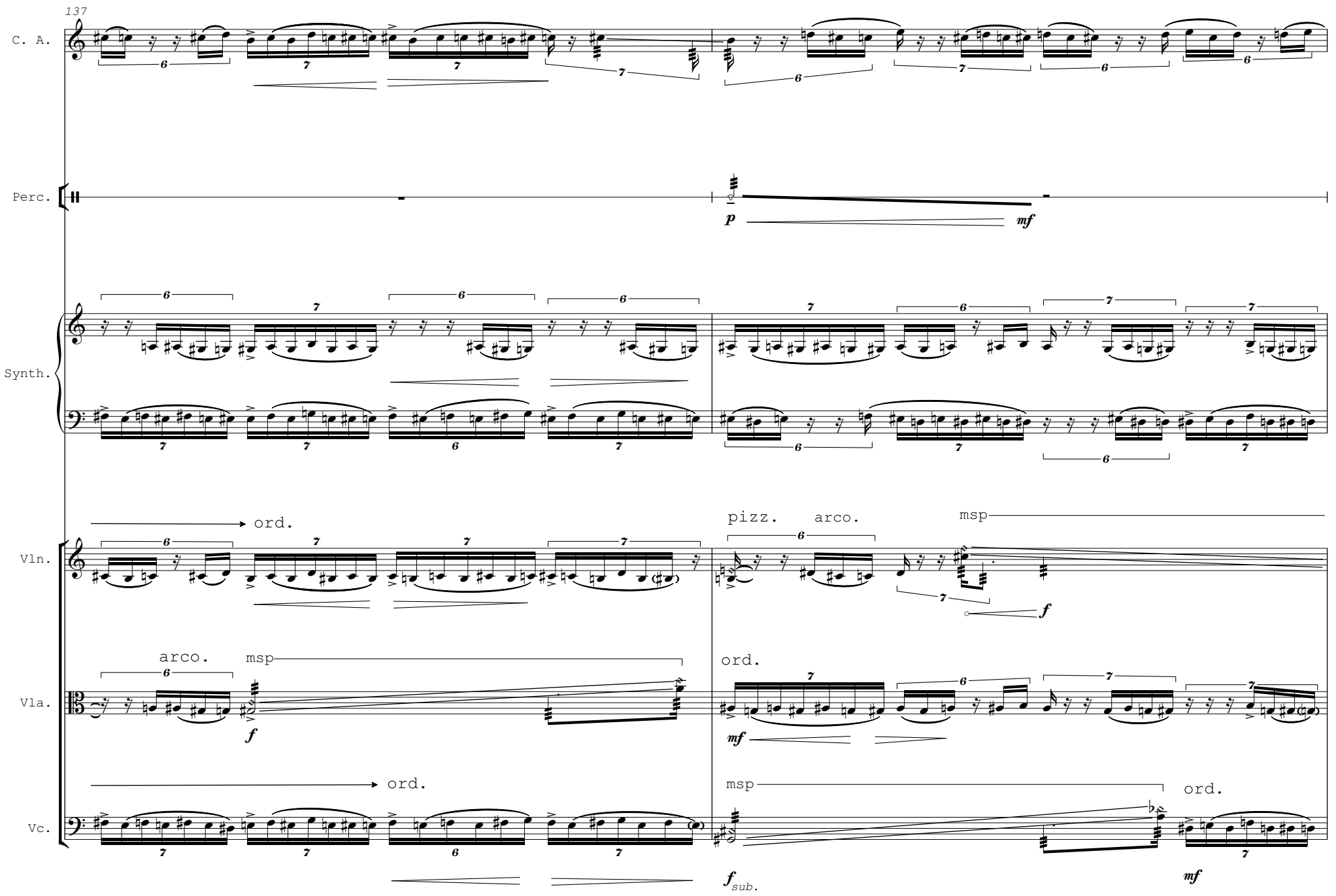
sf pp mp f

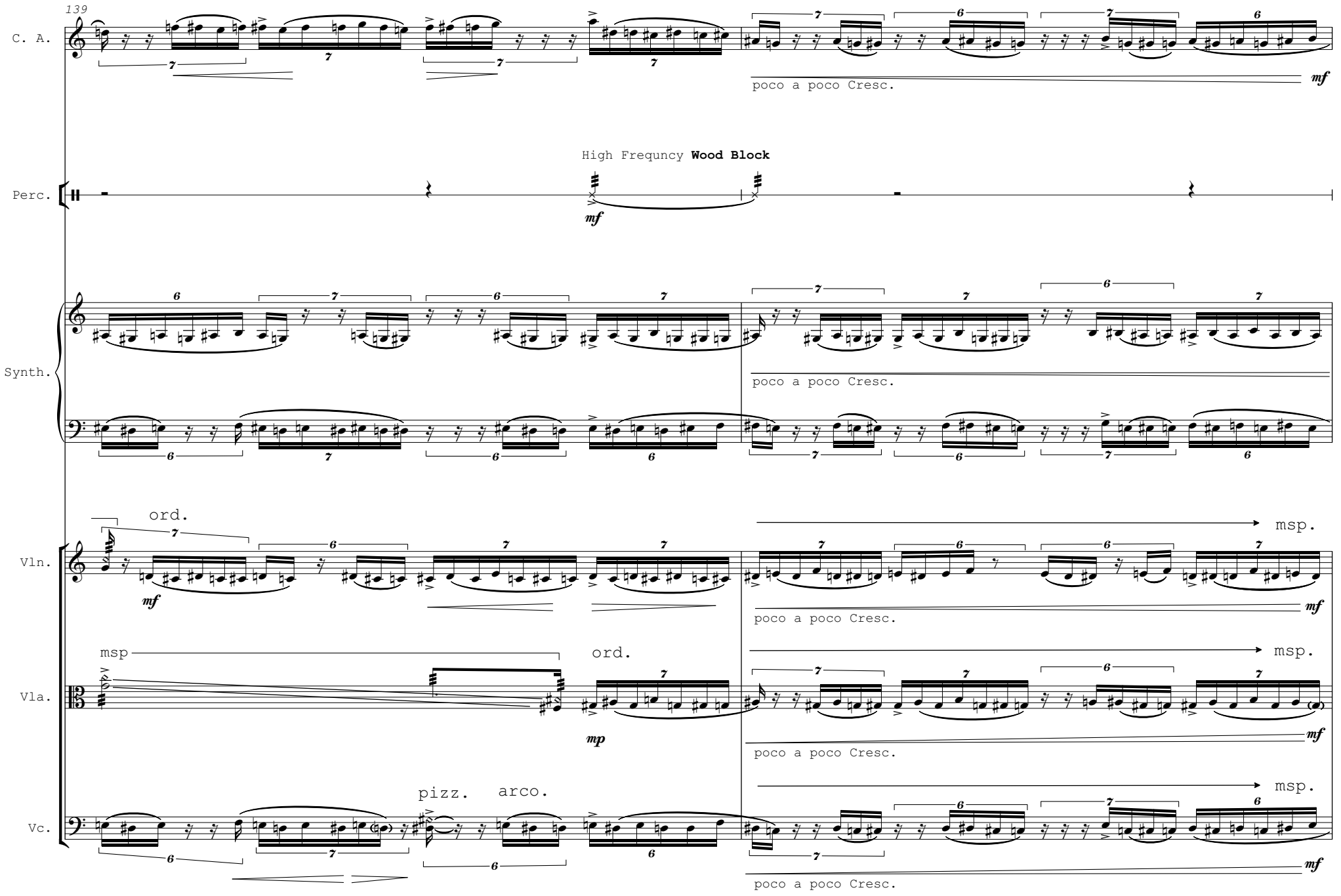
Vc.
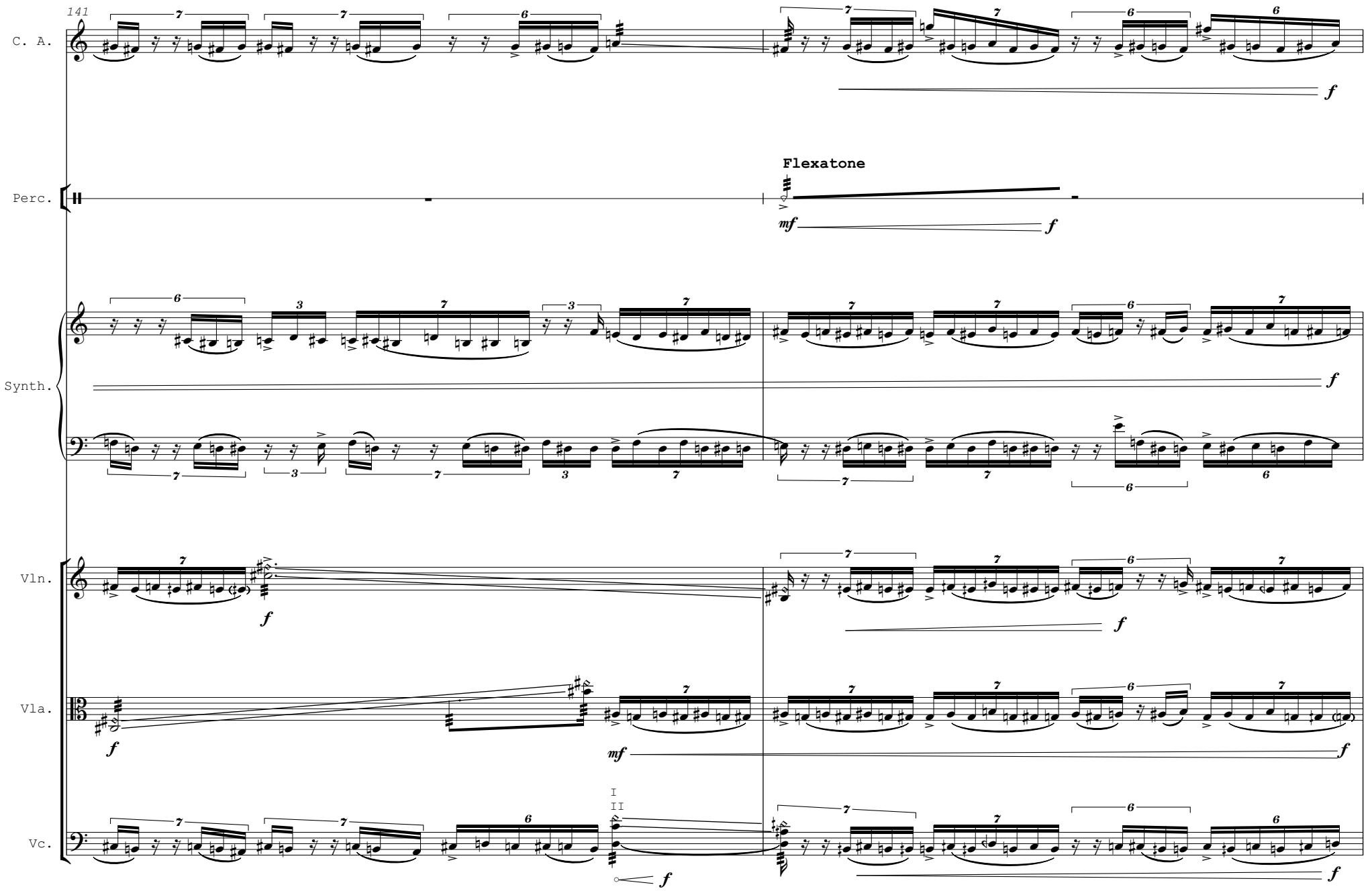
sf pp mp f
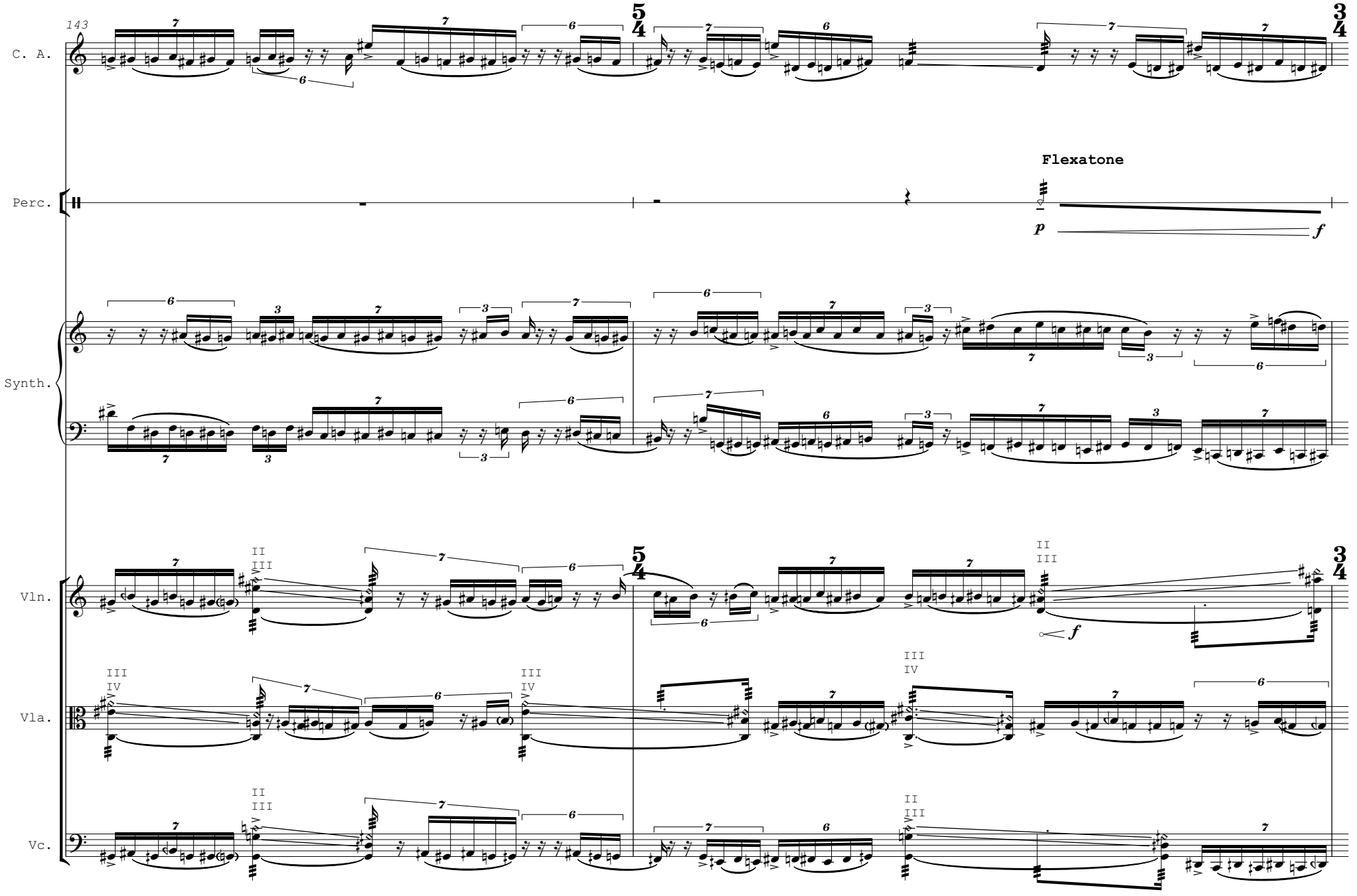

♩ = 80
133
C. A.
sfffpp
pos.
p
poco a poco Cresc.
mf
Bass Drum
Hard Mallet
Gong
Soft Mallet
sf
To W. B.
Perc.
mp
| New Tuning & Sound | Split from Middle G3 as center, increasing the herz of each key gradually as it mover further away from G3)
Synth.
♩ = 80
arco, normale
msp
emst
Vln.
Vla.
pizz. arco.
arco, normle
Vc.

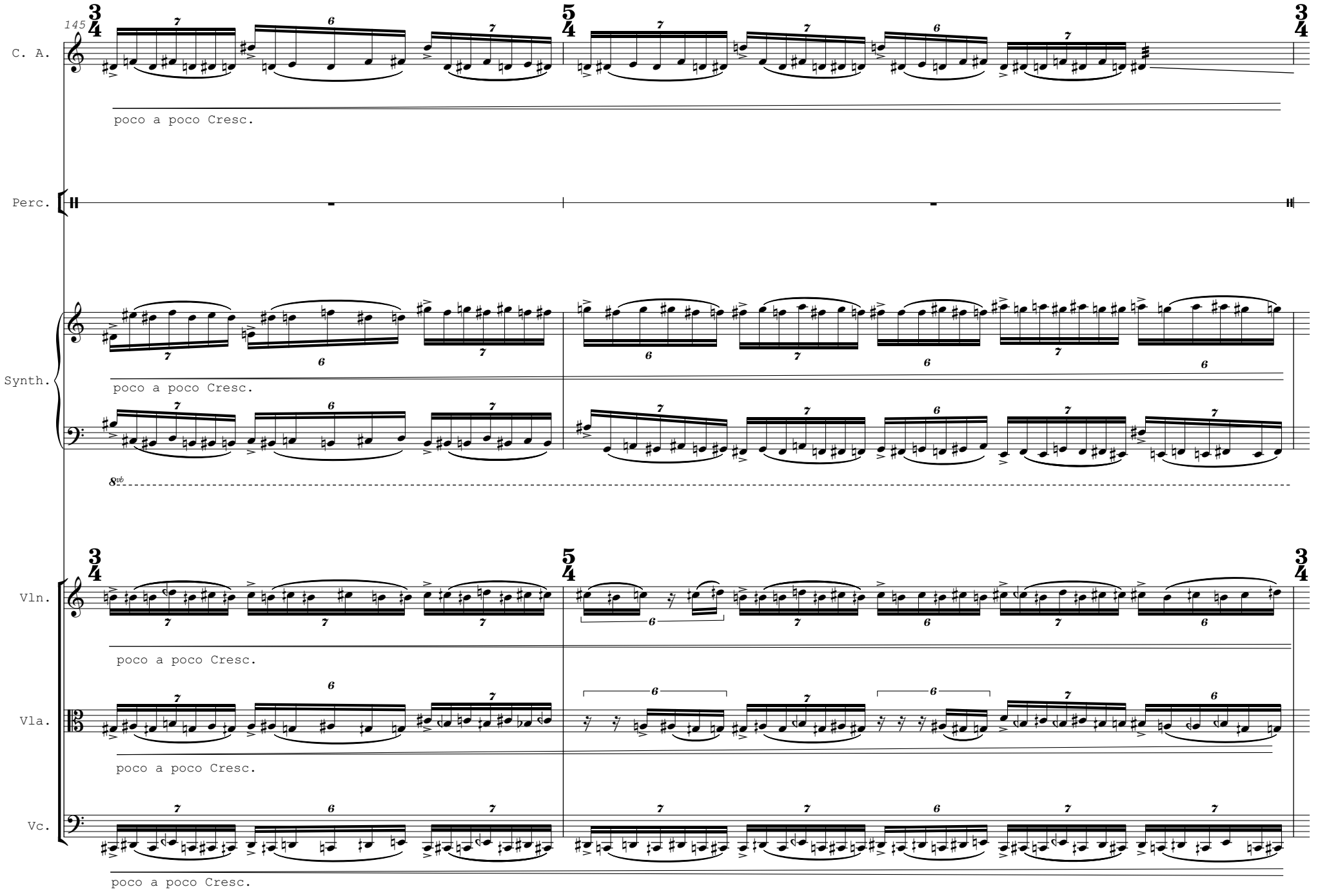

135
C. A.
Perc.
Flexatone
mf
Synth.
Vln.
msp
mst.
f
mf
Vla.
msp
mst.
ord.
pizz.
f
mf
Vc.
msp
f
pizz.
arco.
mst.
mf


137
C. A.
Perc.
Synth.
Vln.
Vla.
Vc.
ord.
pizz.
arco.
msp
p
mf
f
f sub.


139
C. A.
poco a poco Cresc.
mf
High Frequncy Wood Block
Perc.
mf
Synth.
poco a poco Cresc.
ord.
msp.
Vln.
mf
poco a poco Cresc.
msp
ord.
msp.
Vla.
mp
mf
poco a poco Cresc.
pizz.
arco.
msp.
Vc.
mf
poco a poco Cresc.


141
C. A.
Perc.
Flexatone
Synth.
Vln.
Vla.
Vc.
I
II


143
C. A.
Perc.
Flexatone
p
f
Synth.
Vln.
Vla.
Vc.
II
III
III
IV
II
III
III
IV
II
III


145
C. A.
poco a poco Cresc.
Perc.
Synth.
poco a poco Cresc.
8vb
Vln.
poco a poco Cresc.
Vla.
poco a poco Cresc.
Vc.
poco a poco Cresc.

poco accel.

147

C. A.

3/4 4/4

ff

Perc.

to Crotales

f

Synth.

ff

(8)

poco accel.

Vln.

I sustained
II

ff

Vla.

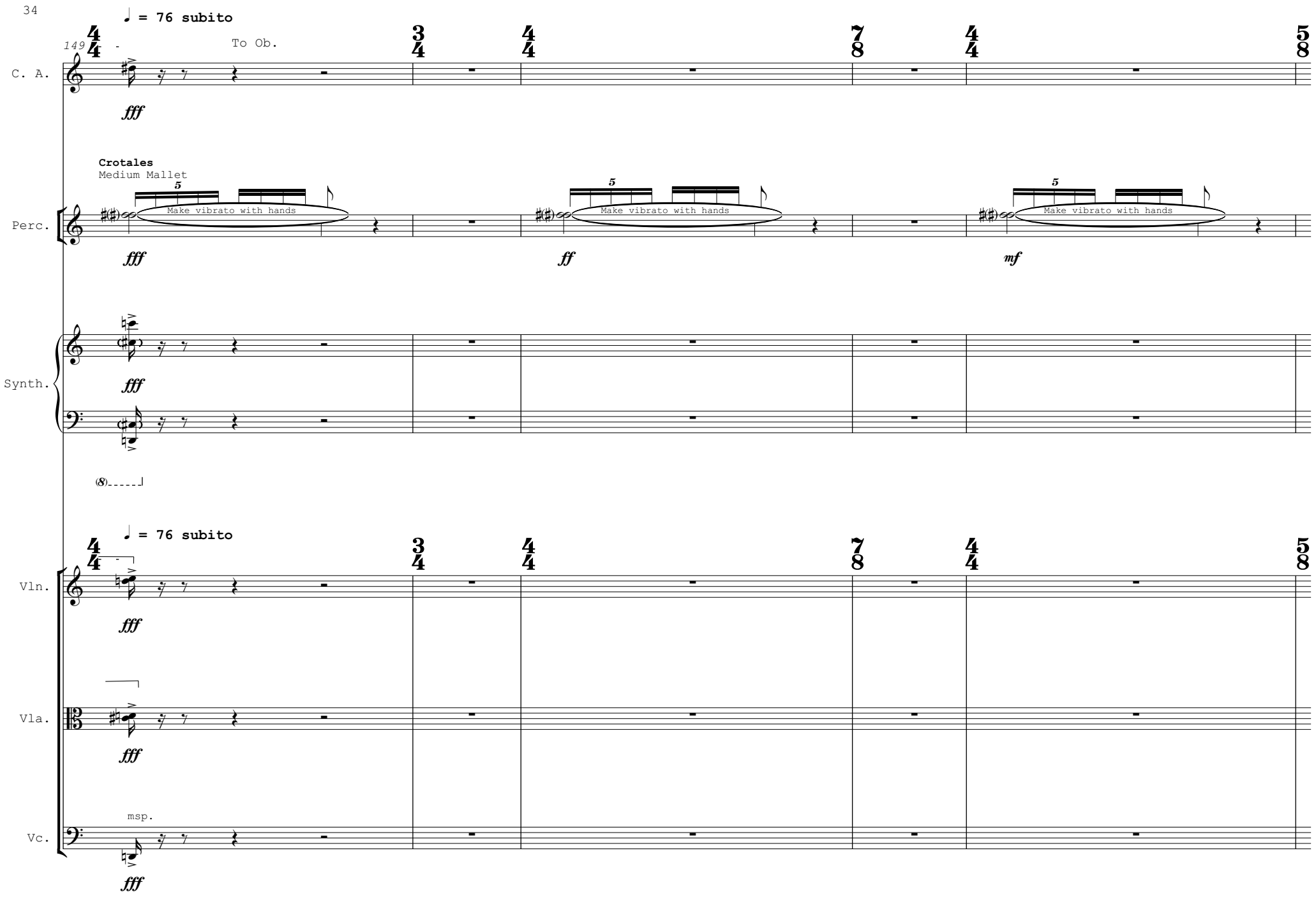
II sustained
III

ff

Vc.

III sustained
IV

ff


♩ = 76 subito
149
To Ob.
C. A.
fff
Crotales
Medium Mallet
Perc.
Make vibrato with hands
fff
ff
mf
Synth.
fff
(8)
♩ = 76 subito
Vln.
fff
Vla.
fff
msp.
Vc.
fff

154

C. A.

Dirty - Like Growl!

Dirty - Like Growl!

+ as vib. as possible
as dark and dirty as possible

Perc.

Metal Stick on
**Metal Surface**
Sharp High
Frequency
**Or Thunder Sheet**

**Bass drum**
Hard Mallet

[Blend With Strings]

**Crotales**

**Sandaper**

**Floor Tom**

[Blend With Strings]

To Vib.

Synth.

**| New Tuning |**
**| for**
**cluster formation |**

Heavy changes
with the **feedback** knob

Very Heavy and Crunchy Timbre

Heavy changes
with the **feedback** knob

Very Heavy and Crunchy Timbre

Vln.

Vla.

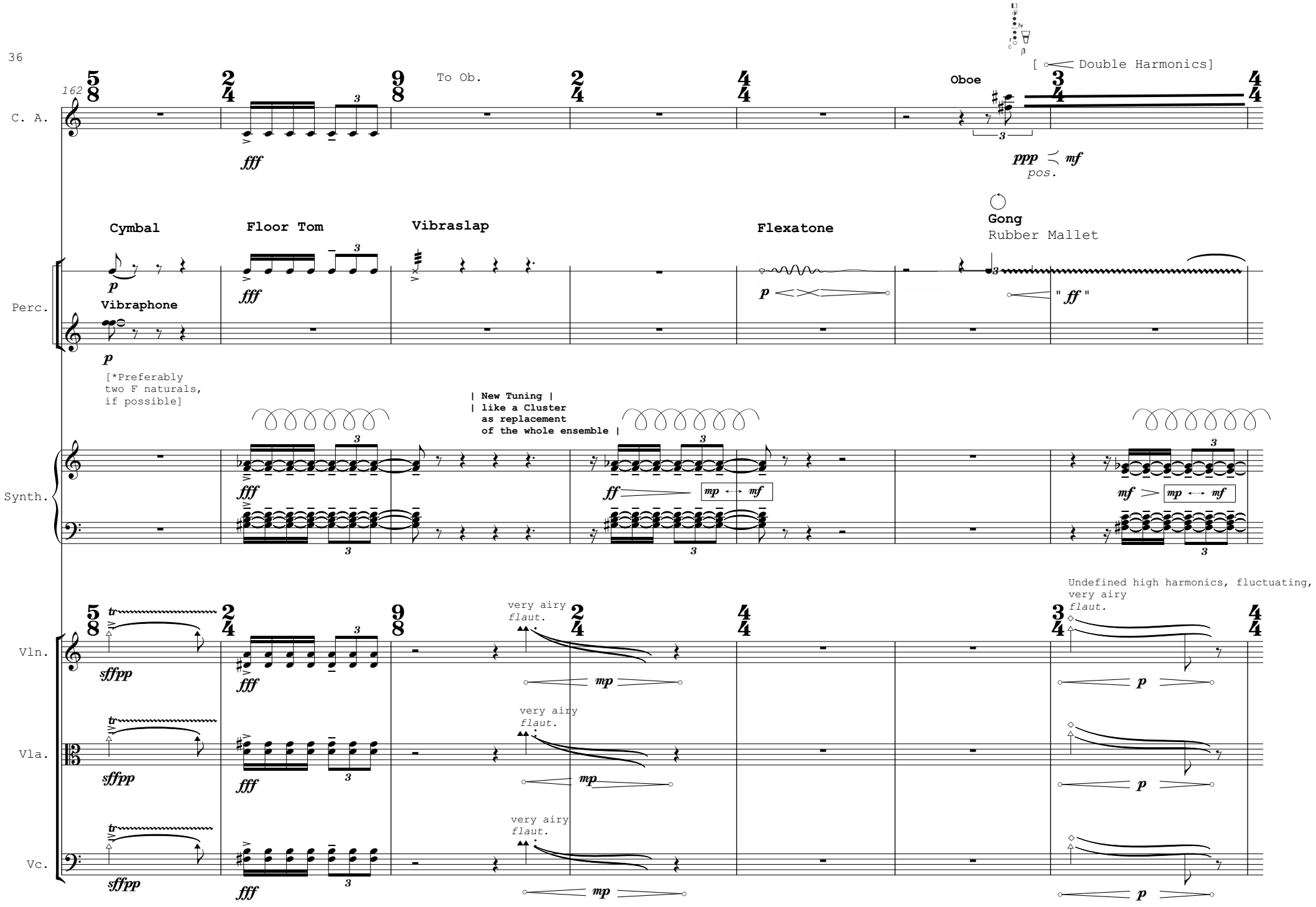
Vc.

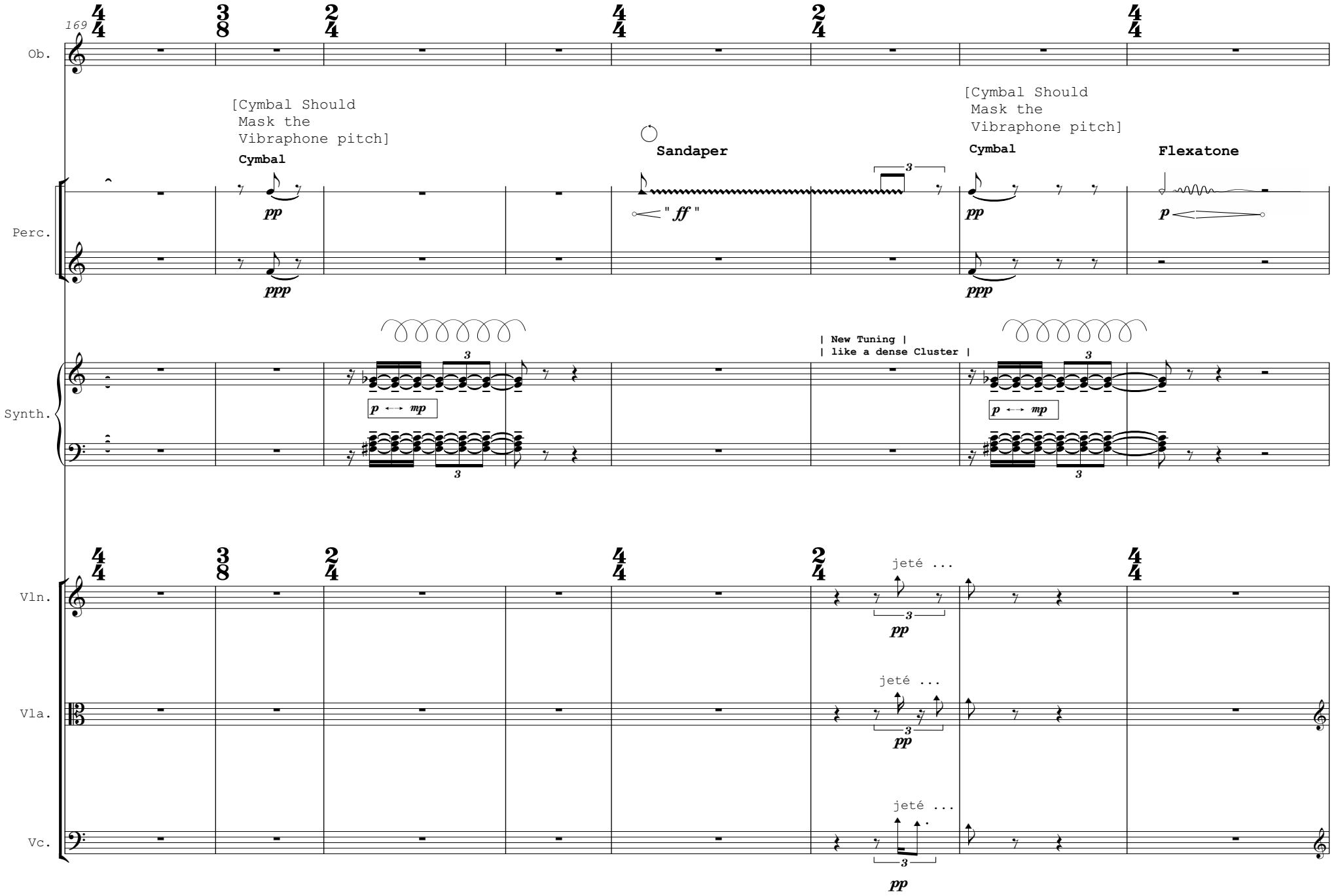
arco.

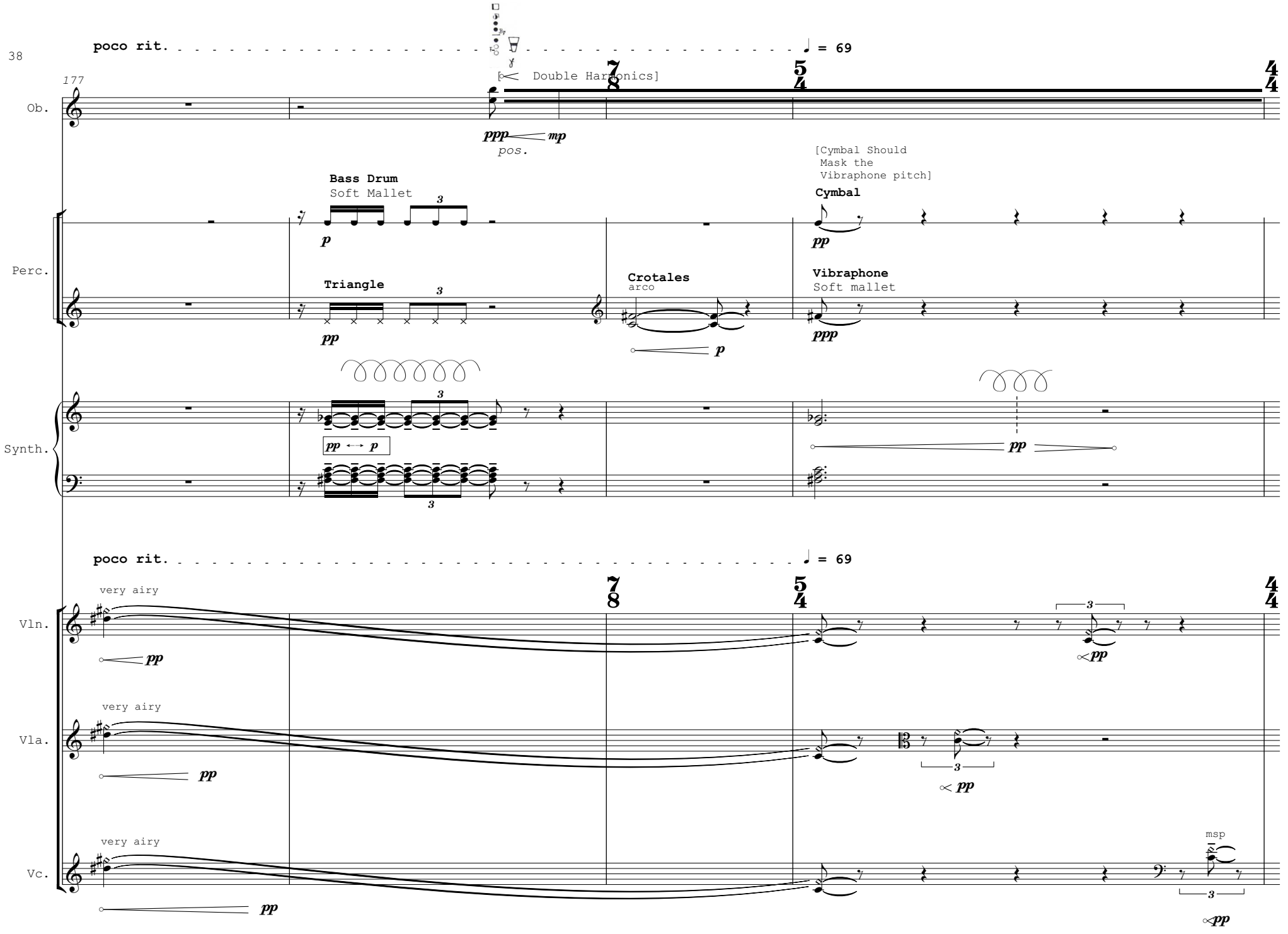
pizz.
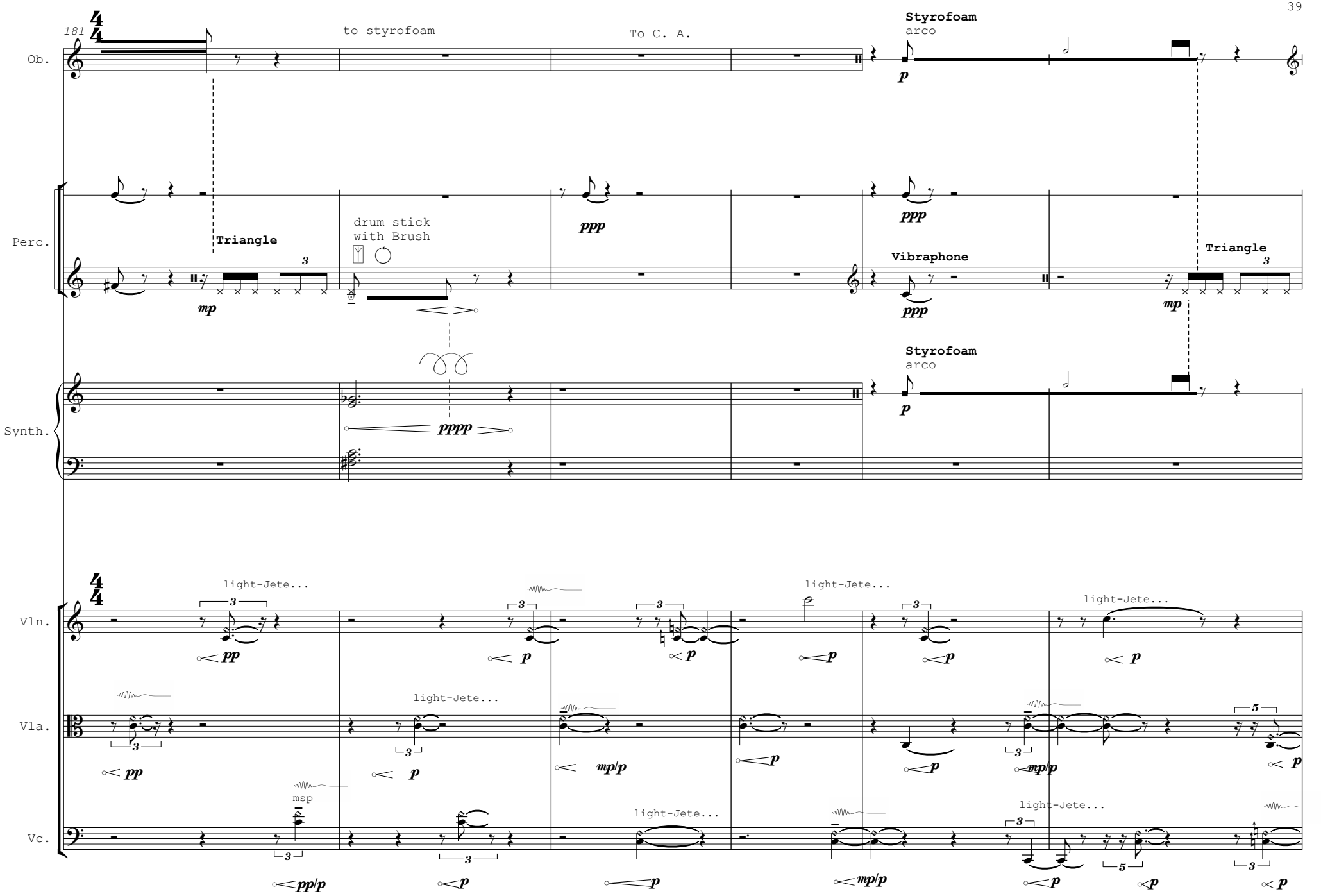
pos.

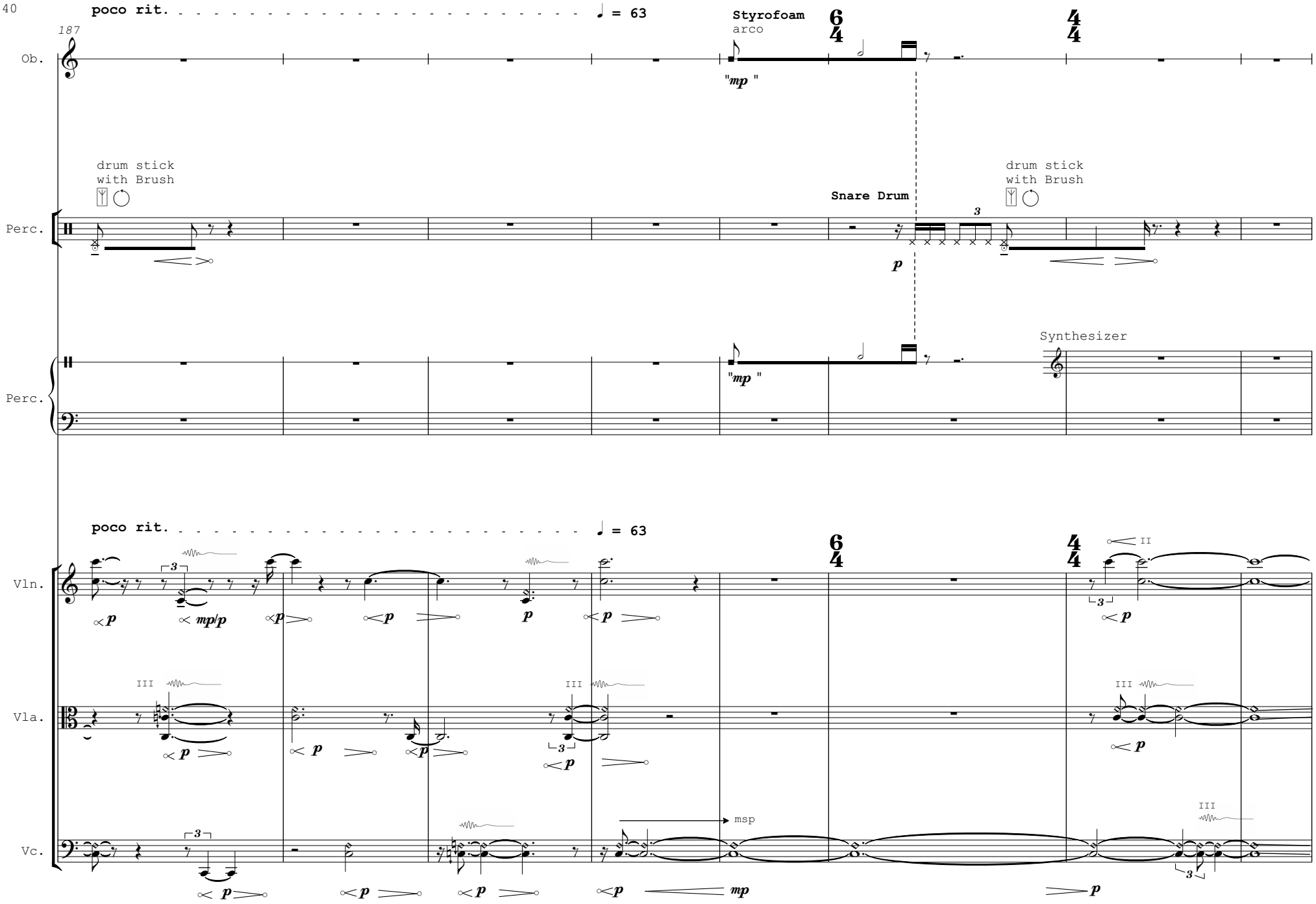
arco.

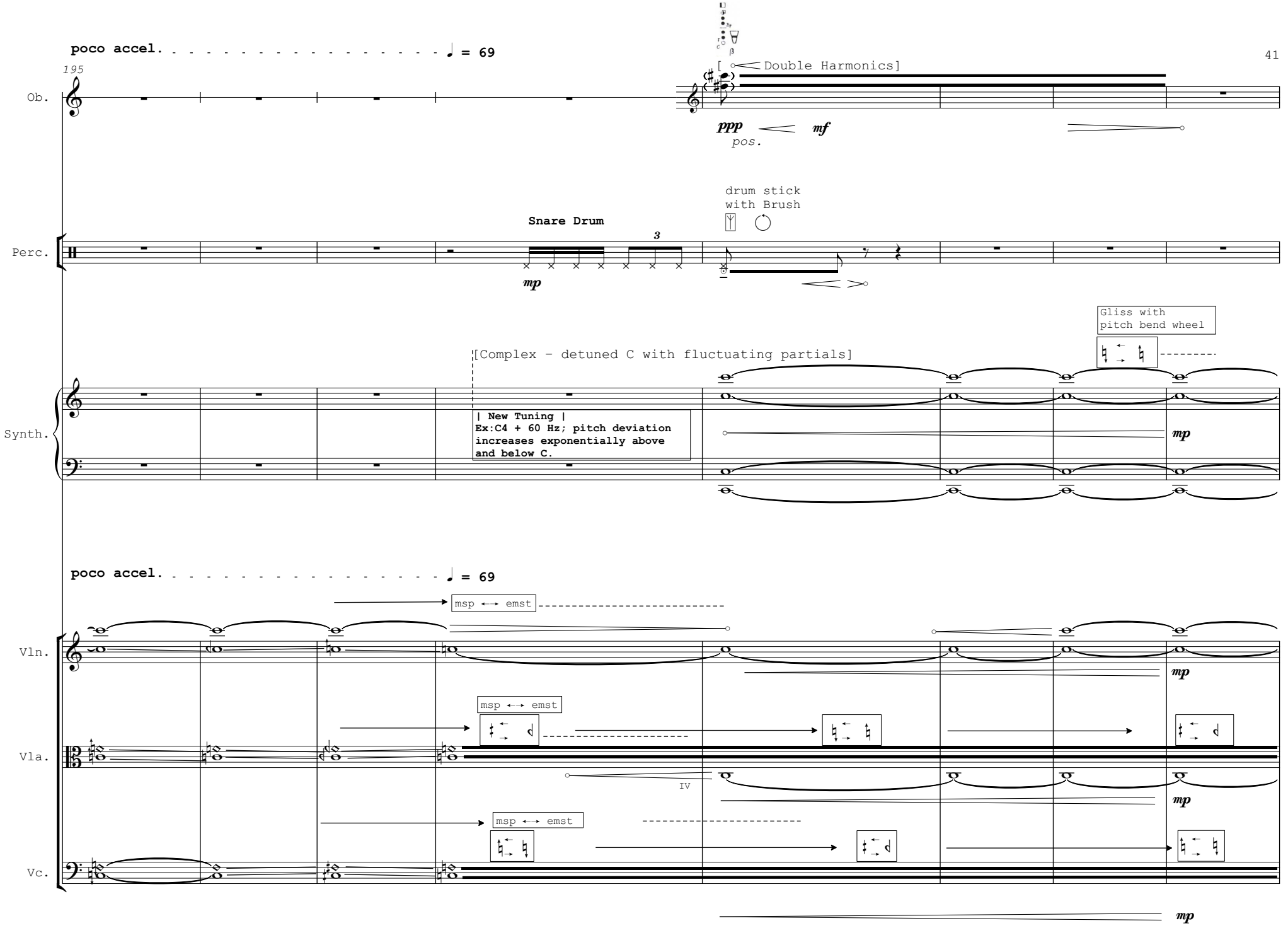

162
C. A.
To Ob.
Oboe
[ Double Harmonics]
ppp mf
pos.
Cymbal
Floor Tom
Vibraslap
Flexatone
Gong
Rubber Mallet
Perc.
Vibraphone
" ff "
[*Preferably
two F naturals,
if possible]
| New Tuning |
| like a Cluster
as replacement
of the whole ensemble |
Synth.
Undefined high harmonics, fluctuating,
very airy
flaut.
very airy
flaut.
Vln.
Vla.
Vc.

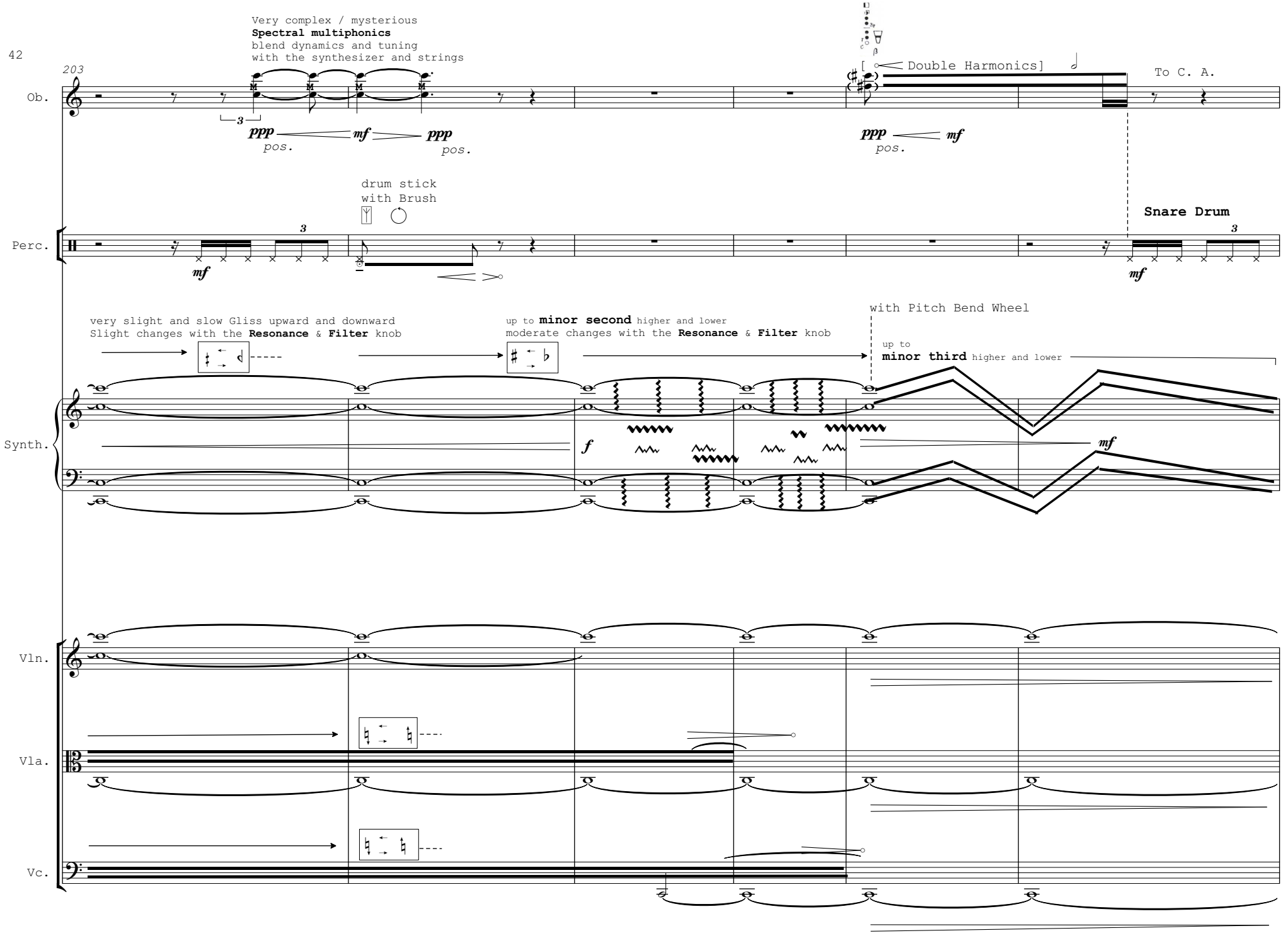

169
Ob.
Perc.
Synth.
Vln.
Vla.
Vc.
[Cymbal Should Mask the Vibraphone pitch]
Cymbal
Sandaper
" ff "
[Cymbal Should Mask the Vibraphone pitch]
Cymbal
Flexatone
| New Tuning | like a dense Cluster |
jeté ...
jeté ...
jeté ...


poco rit.
♩ = 69
177
Ob.
[Double Harmonics]
ppp
mp
pos.
Perc.
Bass Drum
Soft Mallet
p
Triangle
pp
Crotales
arco
p
[Cymbal Should
Mask the
Vibraphone pitch]
Cymbal
pp
Vibraphone
Soft mallet
ppp
Synth.
pp ↔ p
pp
poco rit.
♩ = 69
Vln.
very airy
pp
pp
Vla.
very airy
pp
pp
Vc.
very airy
pp
msp
pp


181
to styrofoam
To C. A.
Styrofoam
arco
Ob.
Triangle
drum stick
with Brush
Vibraphone
Perc.
Synth.
light-Jete...
Vln.
Vla.
Vc.
msp


poco rit.
♩ = 63
187
Styrofoam
arco
"mp "
drum stick
with Brush
Snare Drum
drum stick
with Brush
Synthesizer
Ob.
Perc.
Perc.
Vln.
Vla.
Vc.
msp


poco accel.
= 69
195
Ob.
[ Double Harmonics]
ppp
mf
pos.
drum stick
with Brush
Snare Drum
3
Perc.
mp
Gliss with
pitch bend wheel
[Complex - detuned C with fluctuating partials]
Synth.
| New Tuning |
Ex:C4 + 60 Hz; pitch deviation
increases exponentially above
and below C.
mp
poco accel.
= 69
msp ⟷ emst
Vln.
mp
msp ⟷ emst
Vla.
IV
mp
msp ⟷ emst
Vc.
mp


203
Very complex / mysterious
Spectral multiphonics
blend dynamics and tuning
with the synthesizer and strings
Ob.
ppp mf ppp
pos. pos.
[ Double Harmonics]
To C. A.
ppp mf
pos.
drum stick
with Brush
Perc.
mf
Snare Drum
mf
with Pitch Bend Wheel
very slight and slow Gliss upward and downward
Slight changes with the Resonance & Filter knob
up to minor second higher and lower
moderate changes with the Resonance & Filter knob
up to
minor third higher and lower
Synth.
f
mf
Vln.
Vla.
Vc.

poco accel. - - - - - - - - - - - - -

[Blend with Snare Drum]

209

Cor Anglais

C. A.

ppp < mp > ppp pos. pos.

p < mf > ppp pos.

p < mf > ppp pos.

mp

ppp < f > ppp pos. pos.

Metal Plate
Soft Mallet

Perc.

mp

Snare Drum Metal Plate

Gong
arco

mf mf

[Return to C]

Denser Timbre

Reach and establish the new texture with dense Timbre for the smooth transition to C4

Synth.

pp Should be audible but very subtle

mp pp

f

poco accel. - - - - - - - - - - - - -

Very Slow Gliss.

msp mst

Vln.

p mf p mf f

Very Slow Gliss.

msp mst

Vla.

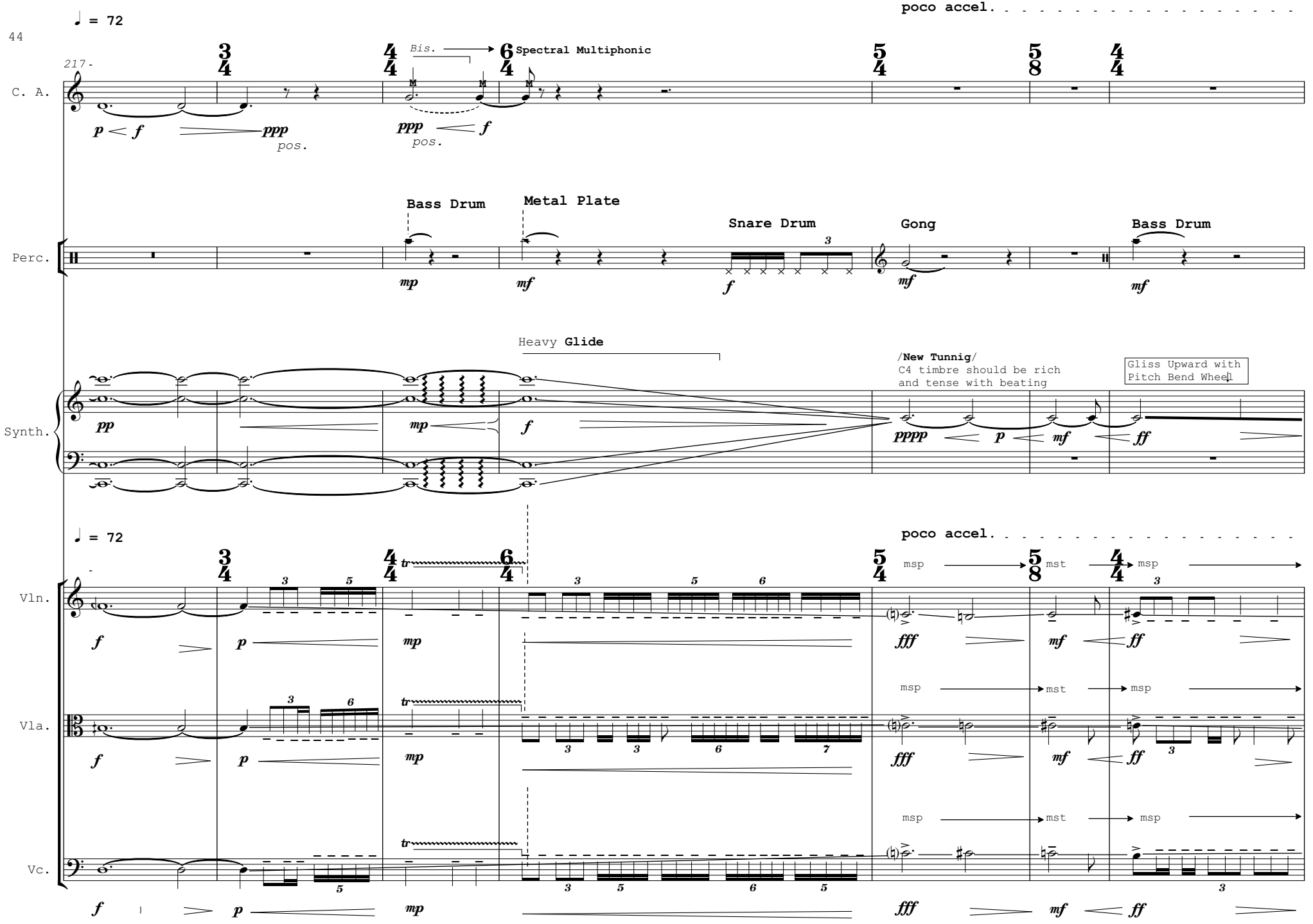
p mf p mf f

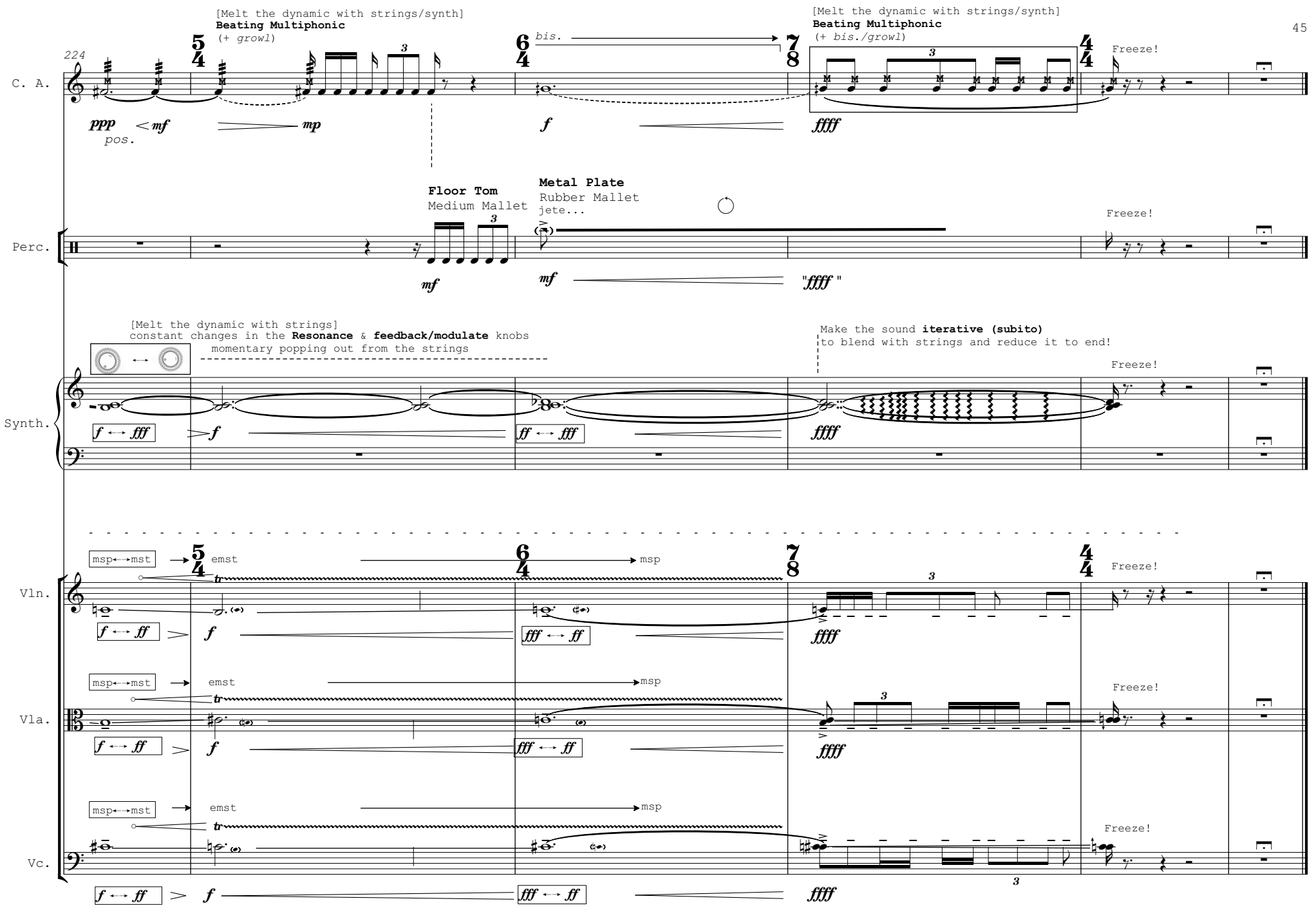
Very Slow Gliss.

msp mst

Vc.

p mf p mf f


♩ = 72
poco accel.
217
C. A.
Bis.
Spectral Multiphonic
pos.
Perc.
Bass Drum
Metal Plate
Snare Drum
Gong
Bass Drum
Synth.
Heavy Glide
/New Tunnig/
C4 timbre should be rich
and tense with beating
Gliss Upward with
Pitch Bend Wheel
♩ = 72
poco accel.
Vln.
Vla.
Vc.
msp
mst


224
C. A.
[Melt the dynamic with strings/synth]
Beating Multiphonic
(+ growl)
bis.
[Melt the dynamic with strings/synth]
Beating Multiphonic
(+ bis./growl)
Freeze!
ppp < mf
pos.
mp
f
ffff
Floor Tom
Medium Mallet
Metal Plate
Rubber Mallet
jete...
Perc.
mf
"ffff "
[Melt the dynamic with strings]
constant changes in the Resonance & feedback/modulate knobs
momentary popping out from the strings
Make the sound iterative (subito)
to blend with strings and reduce it to end!
Synth.
f ↔ fff
ff ↔ fff
msp↔mst
emst
msp
tr
Vln.
fff ↔ ff
Vla.
Vc.