Realignments

for piano with interactive sound and video

Taylor Brook

2023

About *realignments*

Realignments was written for Corey Hamm in 2023 and is scored for solo piano with interactive sound and video.

Realignments is a piece that plays with our perception of sight and sound, exploring how we orient our eyes and ears during a concert experience. This piece invites the audience into a world of its own logic of patterns, contrasts, and gestures.

Technical Rider

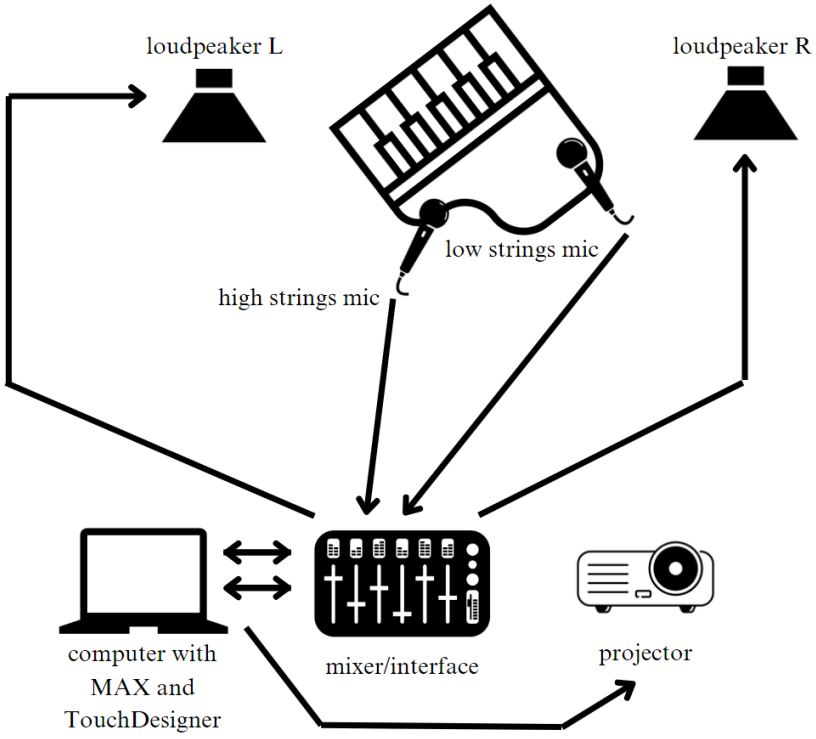
Summary:

Realignments is a piece for solo piano with interactive sound generated using MAXmsp and Pianoteq as well as interactive video generated using TouchDesigner. This piece is ideally performed with subtle amplification of the acoustic piano along with the generated electronic sound from the two instances of PianoTeq embedded in the Max Patch. The sound should be diffused through a stereo speaker system located as close to the piano as possible or even underneath the piano. The video projection should be as large as possible and either above or beside the pianist, as the venue allows.

Required Equipment:

- Concert Speakers
- Piano microphones (stereo pair suggested, possible with a single microphone)
- 4 XLR cables
- Audio Interface / Mixer
- MIDI or USB pedal or controller (if performer is triggering the cues)
- Computer
    - MAXmsp (free version minimum)
    - Touch Designer (free version minimum)
    - Pianoteq VST (composer can lend license, if needed)

Staging and Signal Flow:



Software:

Please find links to the MAX patch, pianoteq tuning presets, and the TouchDesigner files here:

www.taylorbrookmusic.info/realignments/

MAX Patch Operation:

MAX can be downloaded from the Cycling64 website:

https://cycling74.com/downloads

The MAX audio settings should have the "Scheduler in Overdrive" deselected and the I/O and Signal Vector sizes as small as possible, while remaining stable (32, 64, or 128 are all appropriate settings).

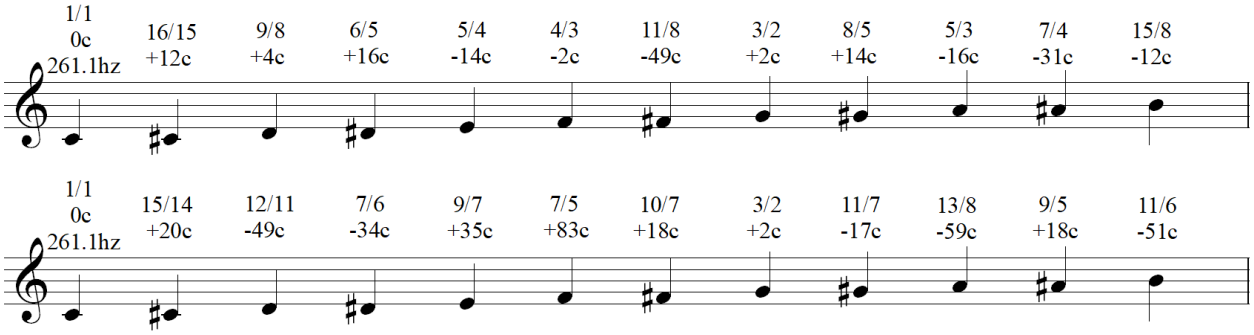
There are several cues that must be triggered where marked in the score. These cues may be triggered by the pianist with a MIDI or USB pedal/controller or by a technician using the spacebar.

Detailed instructions on running the MAX patch are embedded within the patch itself.

Pianoteq VST:

Inside the MAX patch are two instances of the Pianoteq VST. Each instance represents a virtual piano, which may be retuned using the tuning files provided here:

The two virtual pianos are tuned in the following manner:



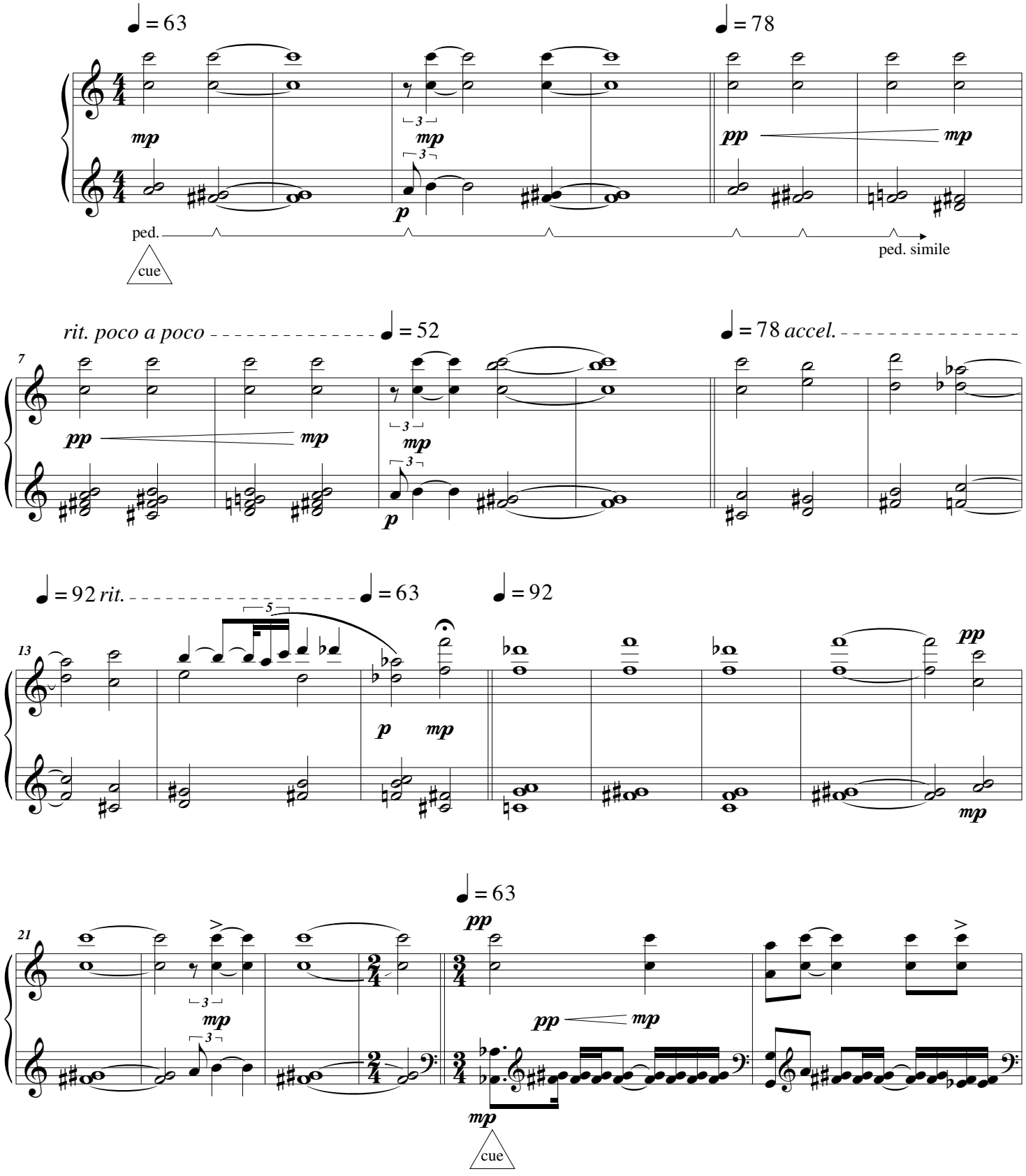
TouchDesigner Patch Operation:

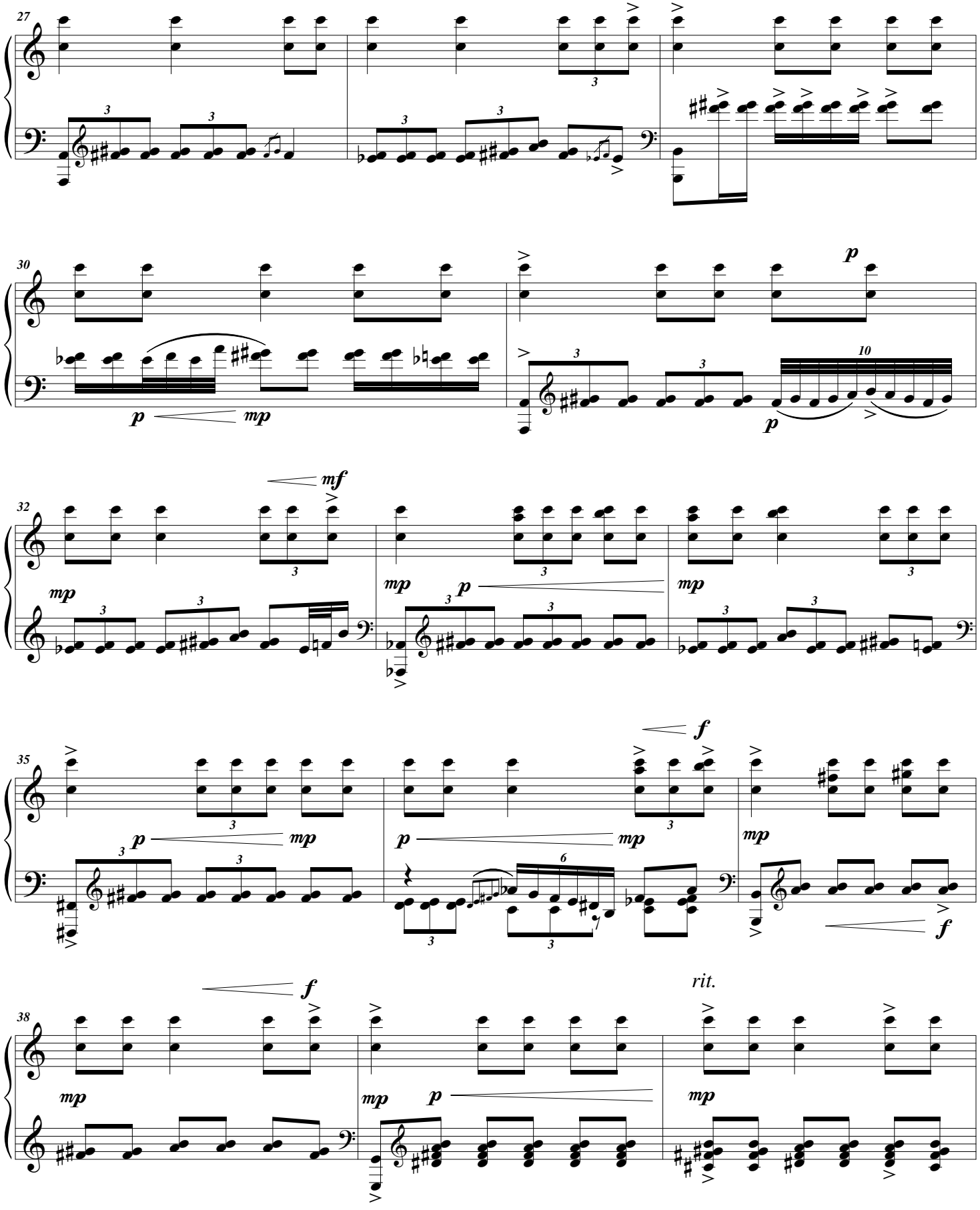
The TouchDesigner patch is designed to receive UDP messages locally (on the same computer) from the MAX patch. The video playback should change with each cue in the MAX patch. The attack detection in the MAX patch should cause a sample-and-hold function to slowly process the video from left to right.

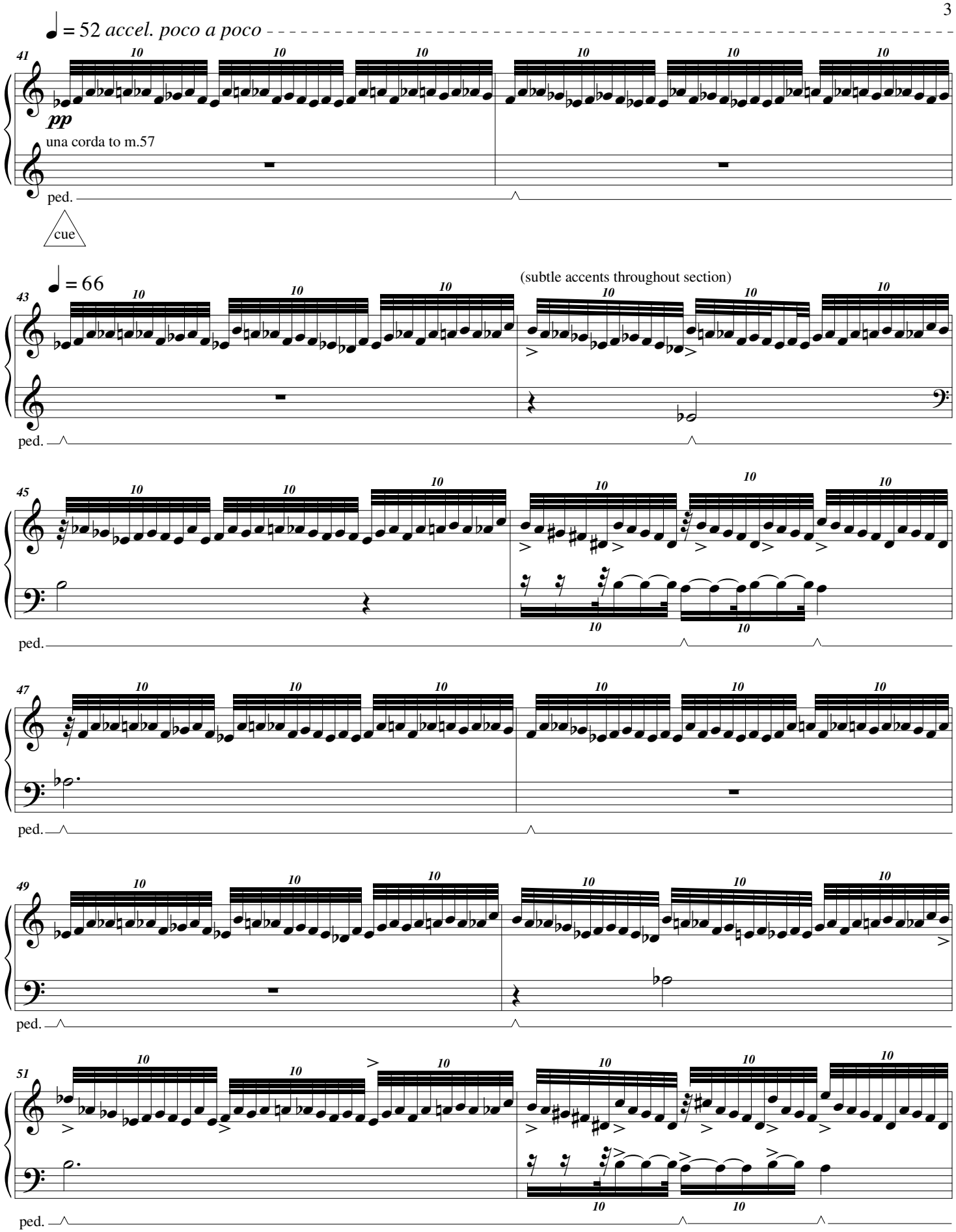
Realignments

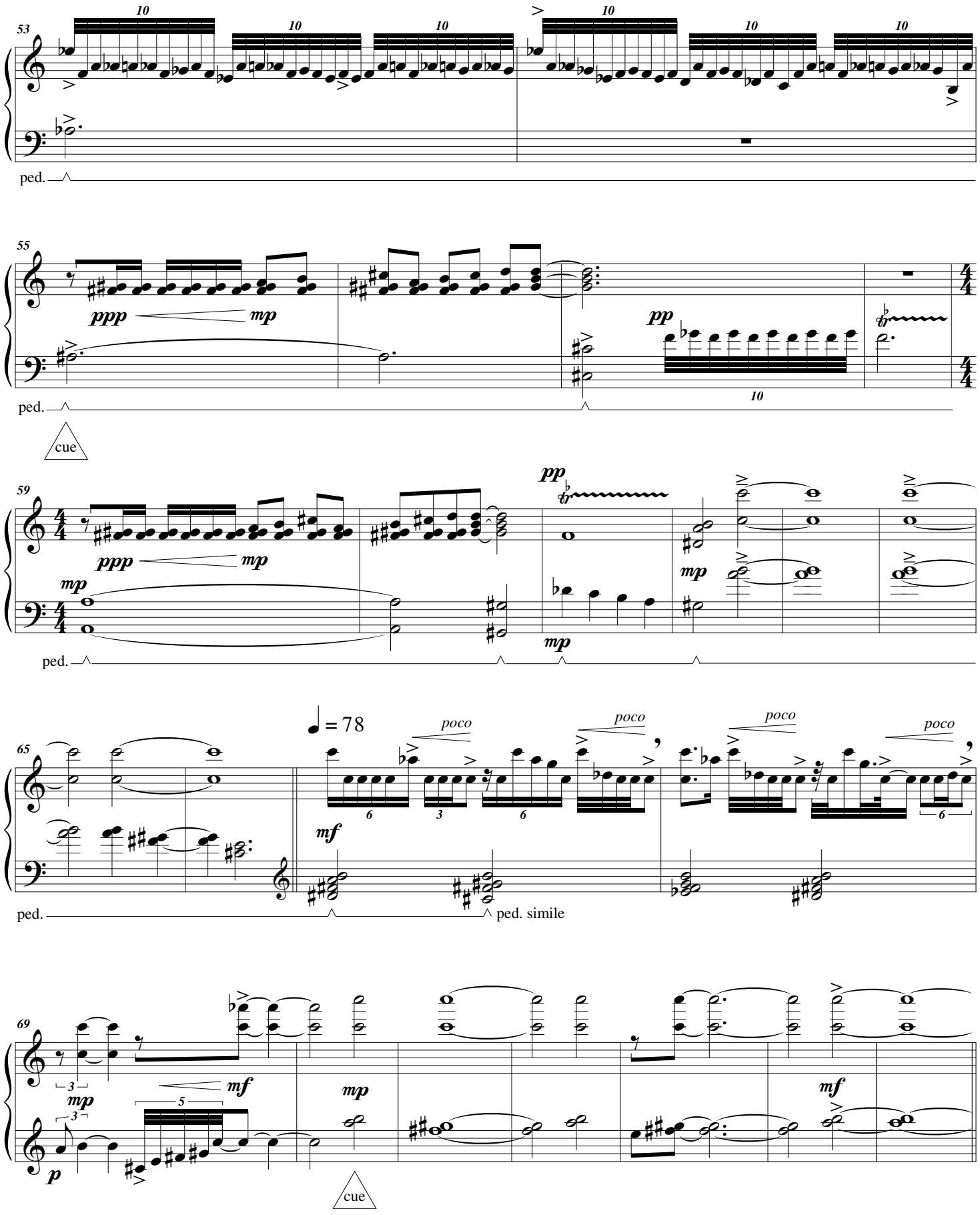
for Corey Hamm

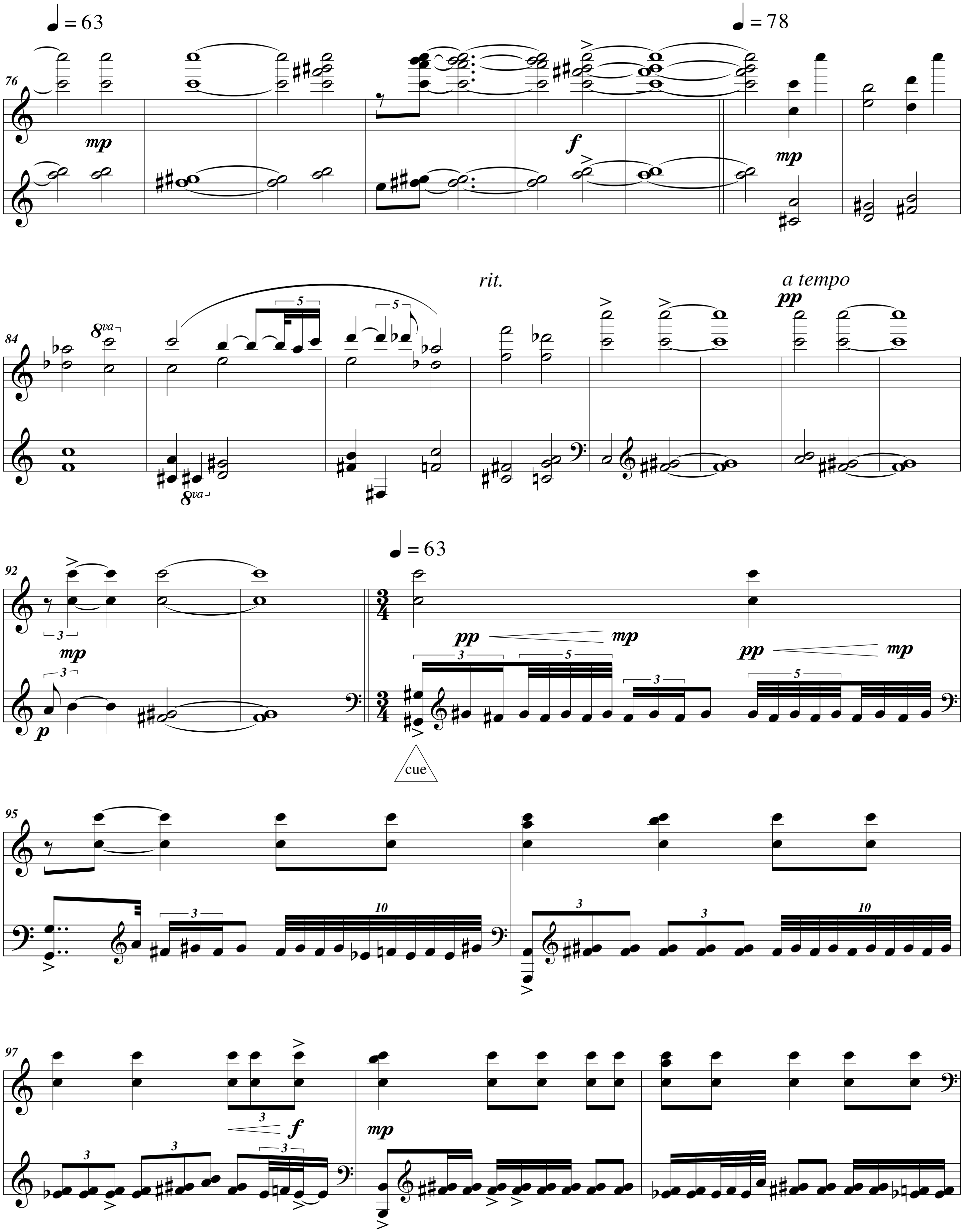
Taylor Brook

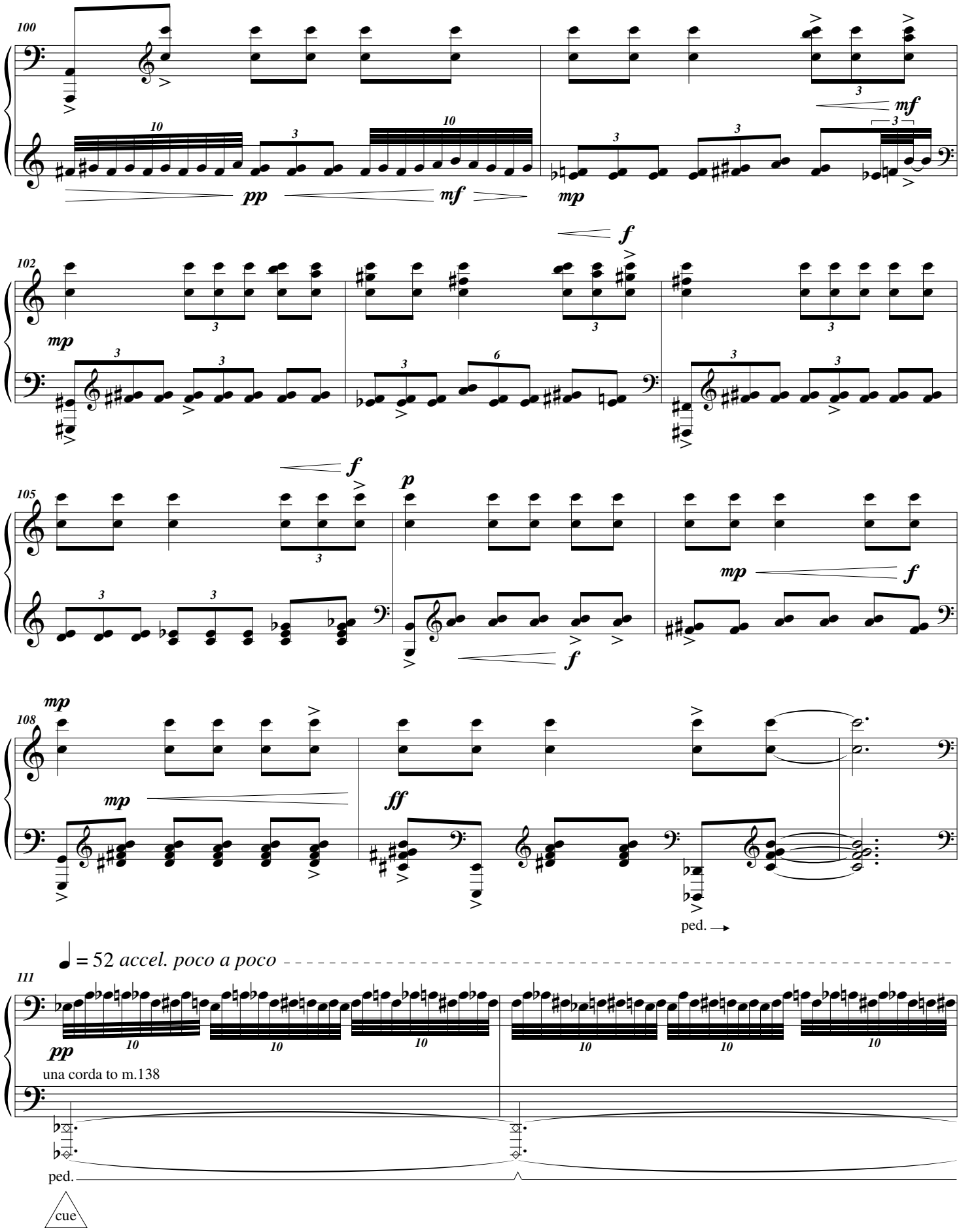


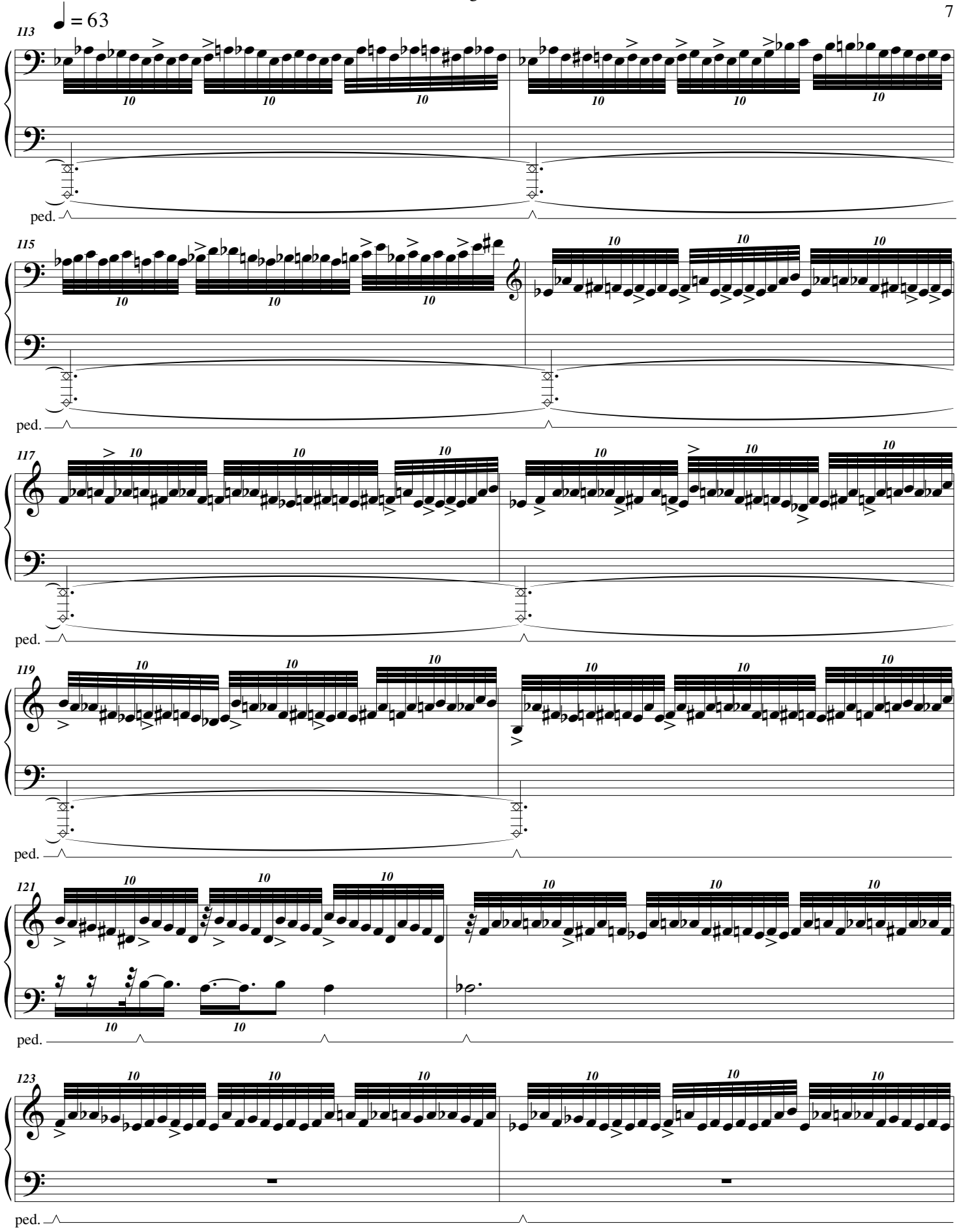

27
30
32
35
38
rit.

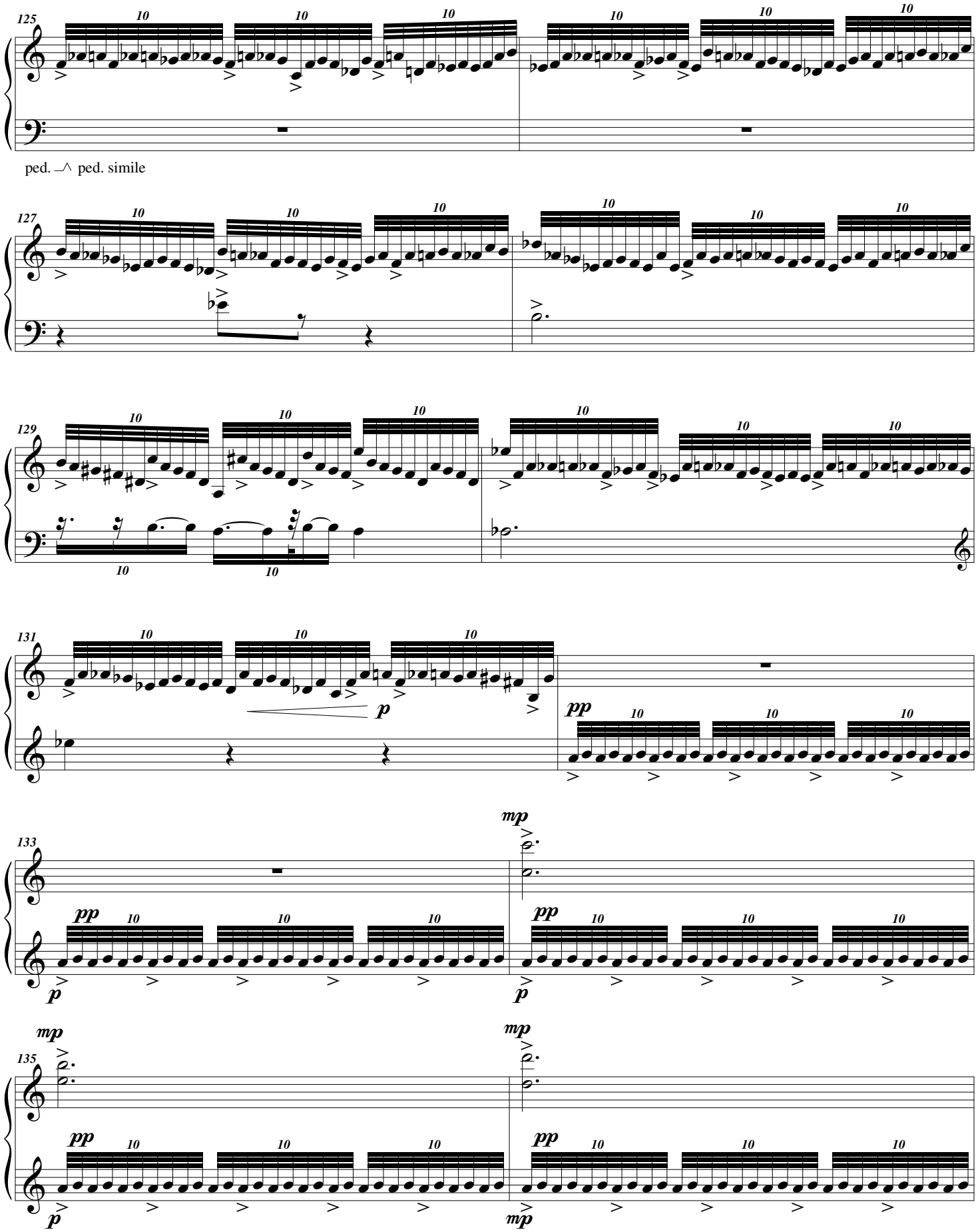

♩ = 52 accel. poco a poco
41
10
pp
una corda to m.57
ped.
cue
♩ = 66
(subtle accents throughout section)
43
45
47
49
51

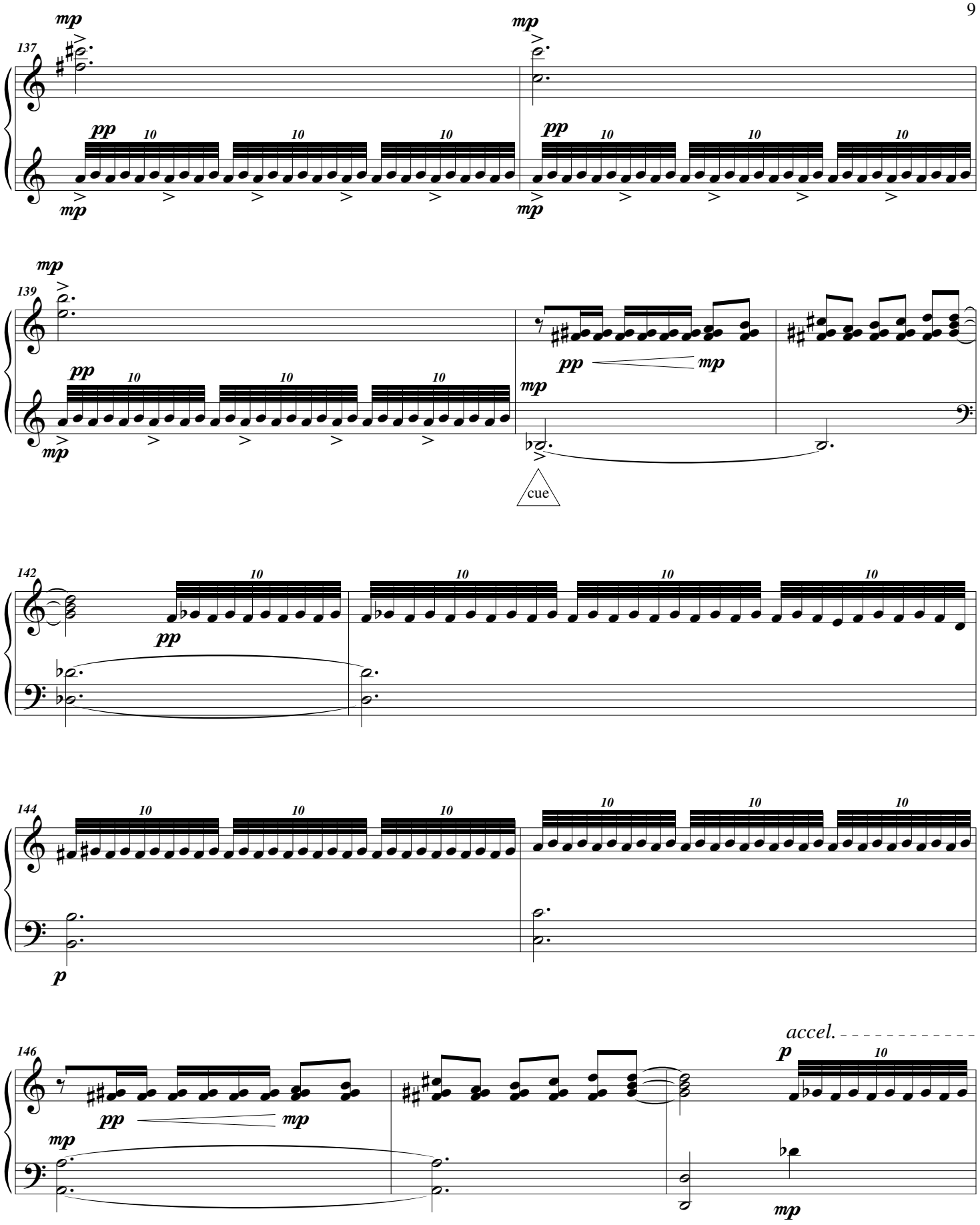

53
55
59
65
69
ppp
mp
pp
mf
p
poco
ped.
ped. simile
cue
♩ = 78

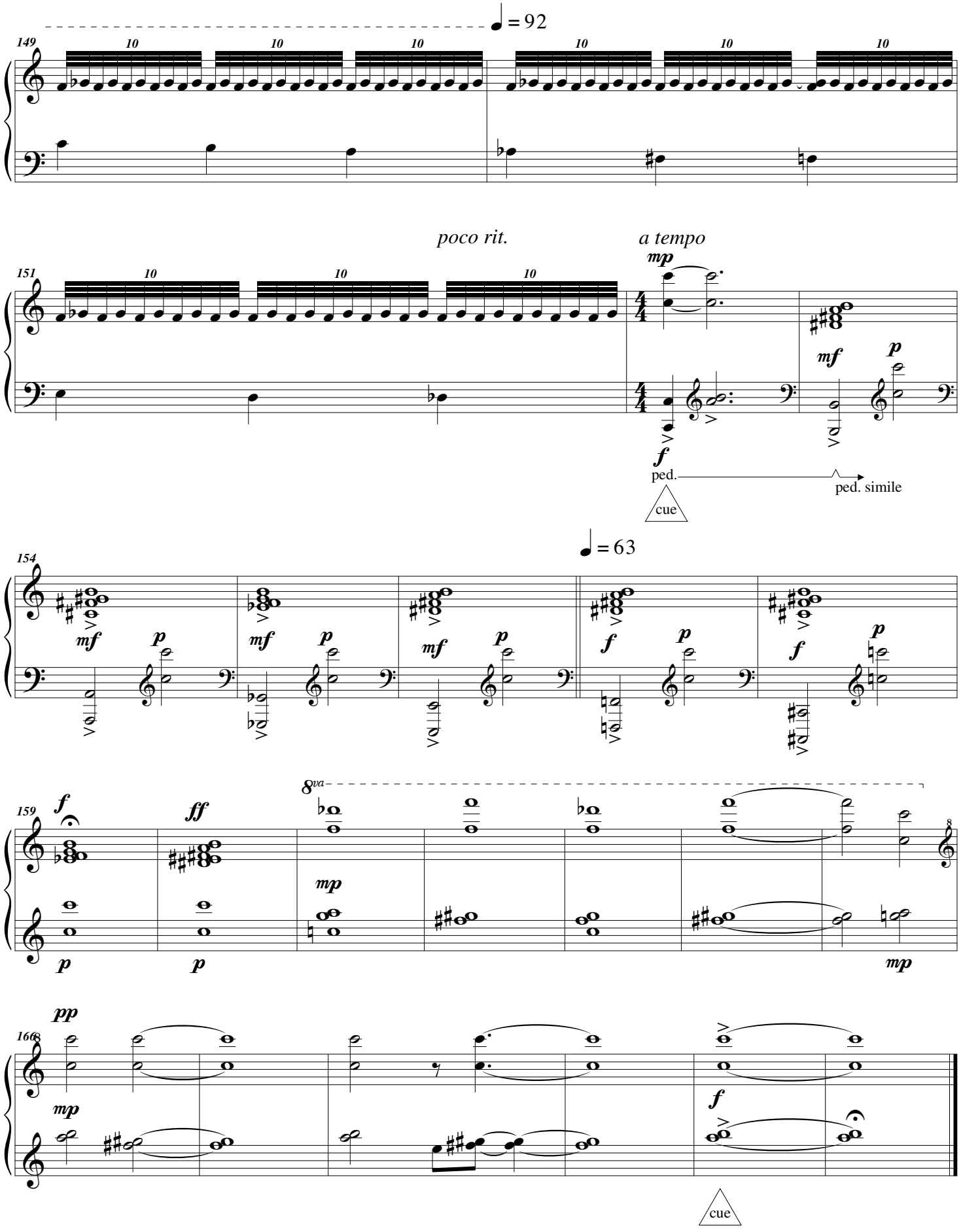

♩ = 63
♩ = 78
mp
f
rit.
a tempo
pp
8va
♩ = 63
p
cue


100
pp
mf
mp
mf
102
mp
f
105
f
p
mp
f
f
108
mp
mp
ff
ped.
= 52 accel. poco a poco
111
pp
una corda to m.138
ped.
cue


♩ = 63
113
115
117
119
121
123
ped.


125
10
ped. ped. simile
127
129
131
pp
p
133
mp
135


137
mp
pp
10
mp
139
cue
142
144
p
146
accel.


149
♩ = 92
10
151
poco rit.
a tempo
mp
mf
p
f
ped.
ped. simile
cue
154
♩ = 63
159
8va
ff
pp
166
cue