PIANO SONATA

GILBERTO AGOSTINHO

(2013–16)

General Information

Piano Sonata is an algorithmic work generated by a computer program. Because this program uses random procedures, a different version of this work is output at each execution. It is recommended that the performer generate a new version for each concert (more on how to generate a version below), though this is not a requirement. Also, the performer may play more than one single version on a same concert.

Durata: averagely 30'

Notation And General Performance Notes

First movement:

- grace notes should be played as fast as possible and always on the beat
- trills are always executed as minor upper trills
- two types of fermati are used: short and regular. Their duration must be chosen so that the flow of the movement isn't interrupted (therefore they must be quite brief)

Second movement:

- grace notes should be played as fast as possible and always on the beat
- in the last bar, hold down the sustain pedal until the resonance completely disappears

Third movement:

- the cluster in the first bar, ranging from C3 until C5, is to be silently depressed before holding down the sostenuto pedal (which should remain held down throughout the movement). If the cluster is too large to be depressed using only the hands, the player can use a flat object to depress the keys
- notes outside the sostenuto cluster range are always marked as staccatissimo, while notes inside the range have no articulation markings. This notation helps the player anticipate which notes will be held by the pedal and which won't
- five possible tempi are used in this movement: 260, 290, 320, 350 and 380 bpm. As soon as a new tempo is reached, start to gradually accelerate (**accel.**) or slow down (**rit.**) towards the next tempo marking
- the dynamics of this movement consist of a single diminuendo from the ***fff*** of the first bar until the ***ppp*** in the last page
- in the last bar, hold down the sostenuto pedal until the resonance completely disappears

Also note that the pedalling is strictly indicated and that all accidentals in this score are notated as sharp.

Generating a unique version

In order to generate a unique version of this work, it is necessary to have the following programs installed on a Linux computer:

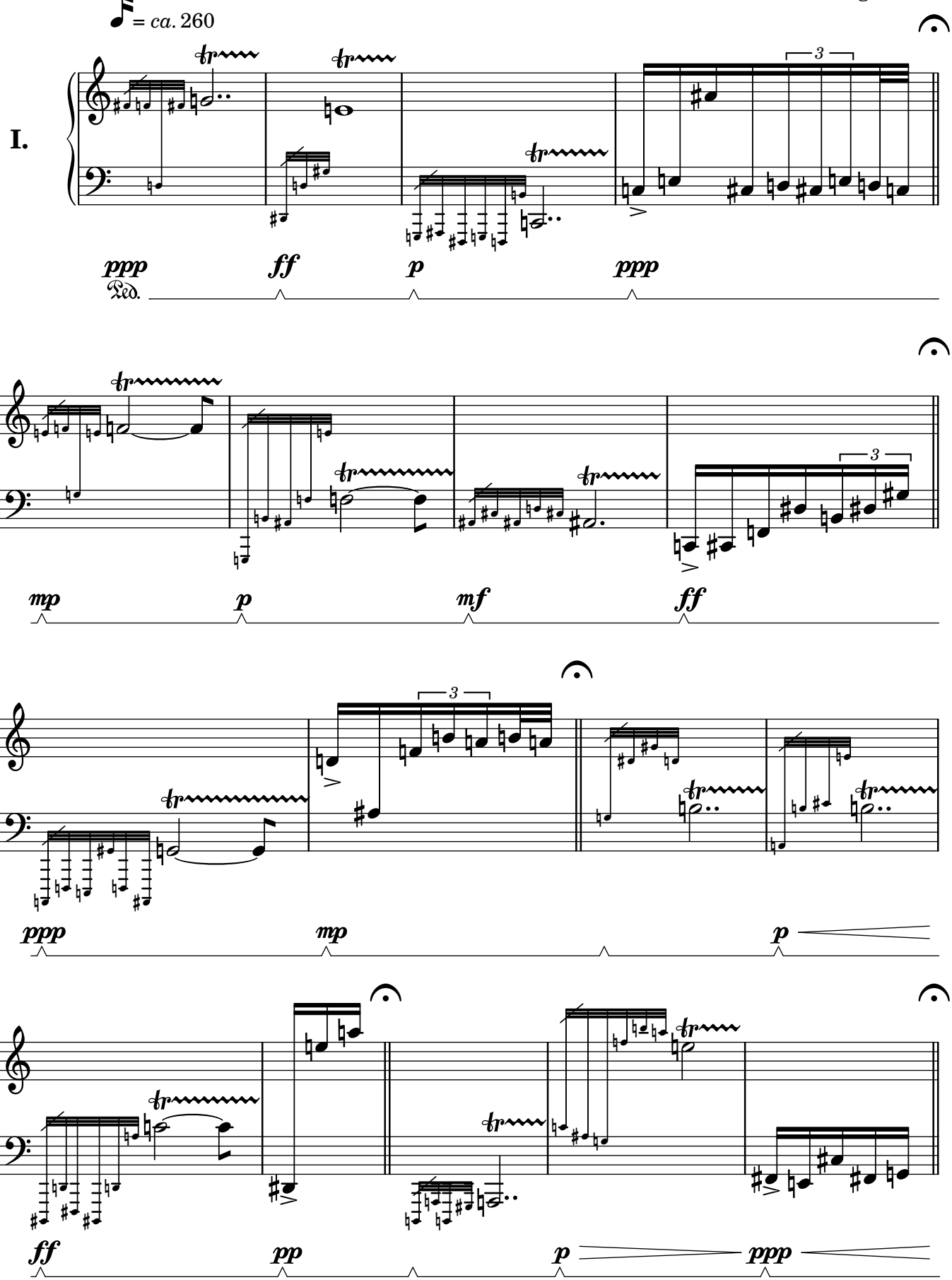
- The program `piano-sonata.out` and all its subfolders, which can be freely obtained by sending a request message to gilberto.agostinho.f@gmail.com
- LilyPond, which can be downloaded from www.lilypond.org
- LaTeX, which can be downloaded from www.latex-project.org

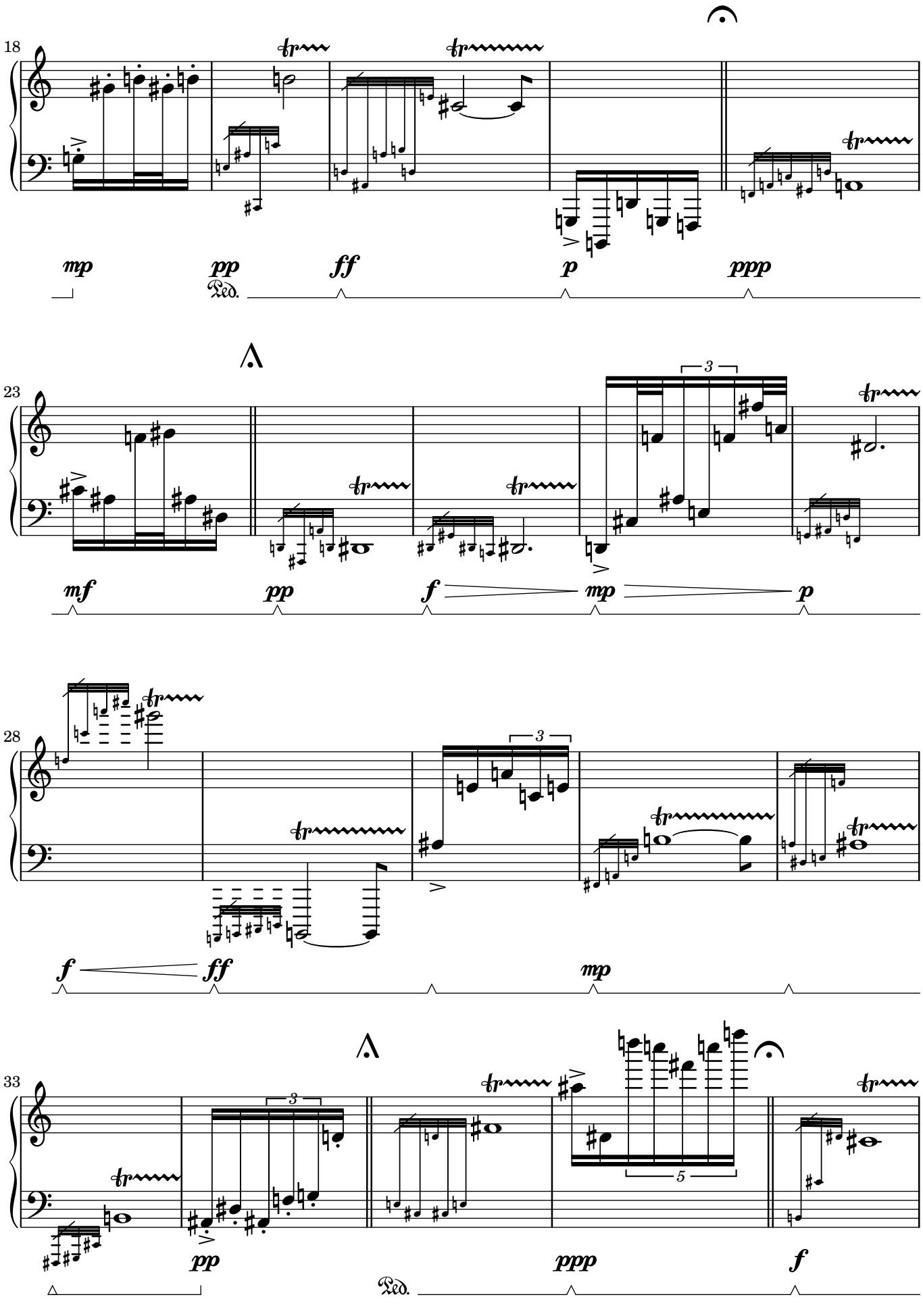
To generate a score, simply execute the file `piano-sonata.out` and wait until a score is automatically generated as a PDF file named `Piano Sonata.pdf` (this may take a few minutes). To generate a new score, simply run the executable file once again. This program creates another 9 files: three PDF files, three MIDI files and three LilyPond format files (`.ly`), once for each movement.

IMPORTANT NOTE: after generating a score, another execution of `piano-sonata.out` will result in the loss of all previously generated files (they will all be overwritten)! If you wish to keep a particular version of this composition, please copy all its files to a safe location. Also, please notice that this program has been tested with LilyPond version 2.19.37 and pdfunite version 0.24.5, and there is no guarantee it will work with different versions of these programs.

Piano Sonata

Gilberto Agostinho

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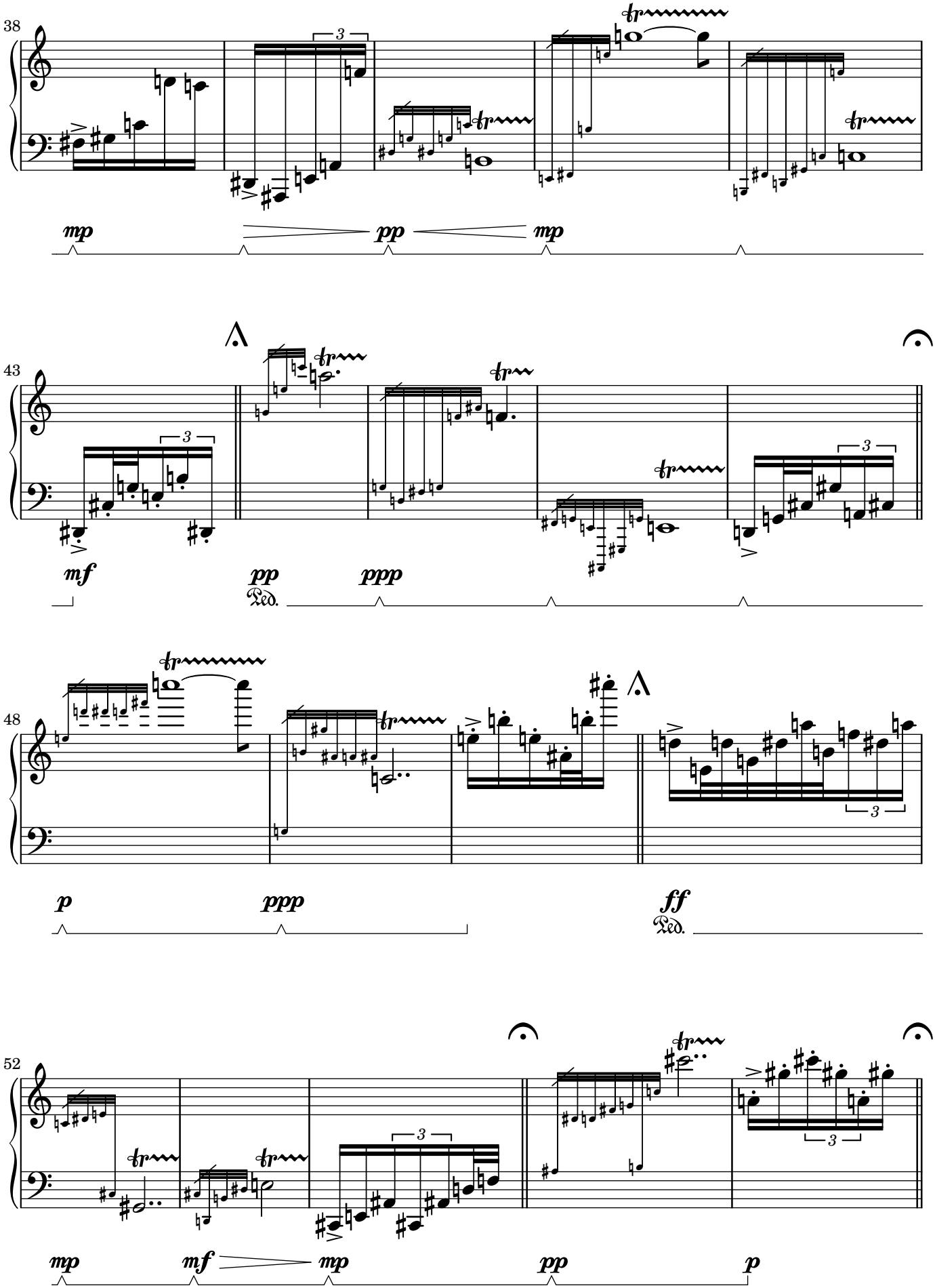
mp
pp
Ped.
ff
p
ppp
23
mf
pp
f
mp
p
28
f
ff
mp
33
pp
ppp
Ped.
f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mp
pp
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mf
pp
Ped.
ppp
48
p
ppp
ff
Ped.
52
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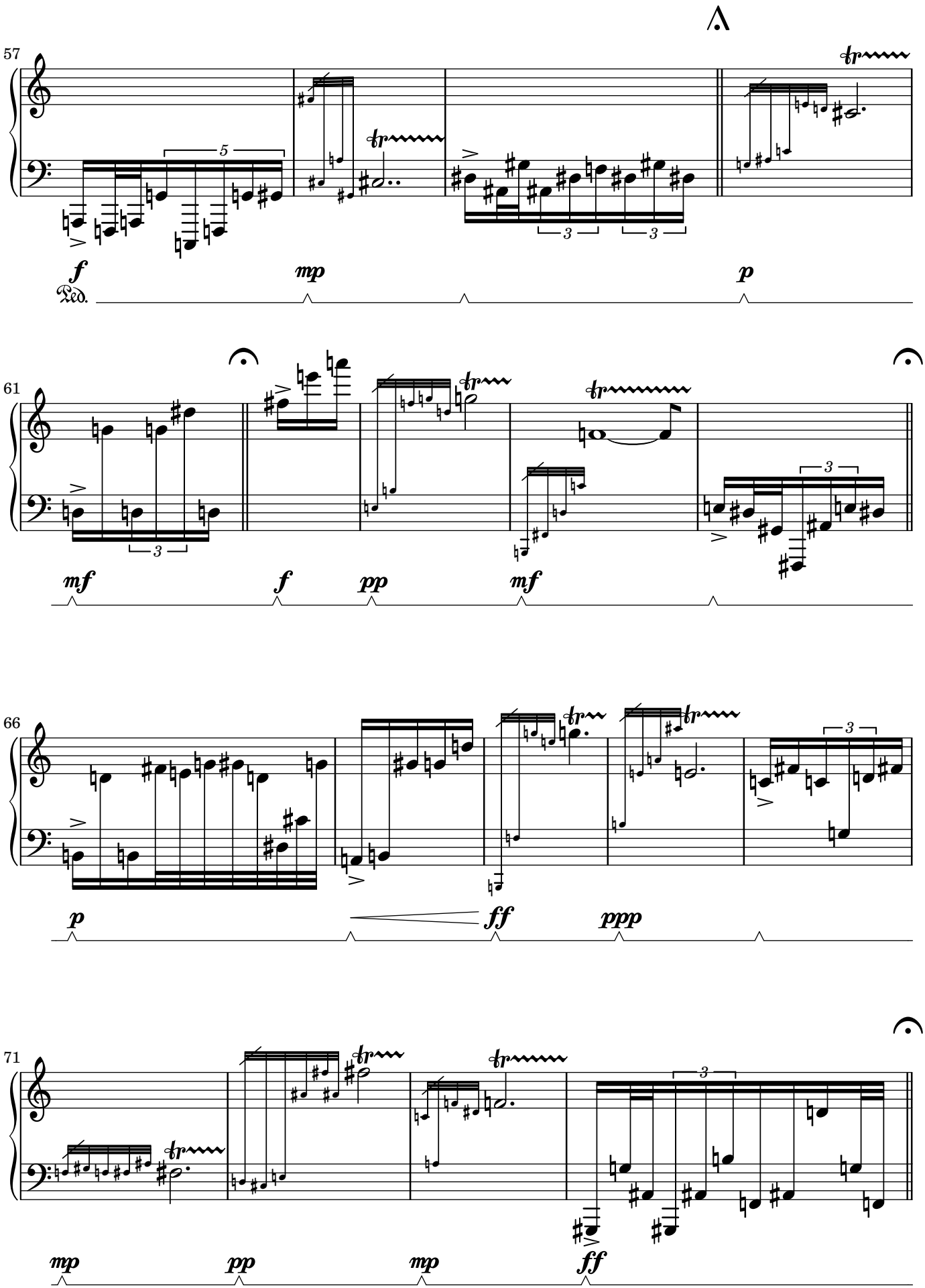
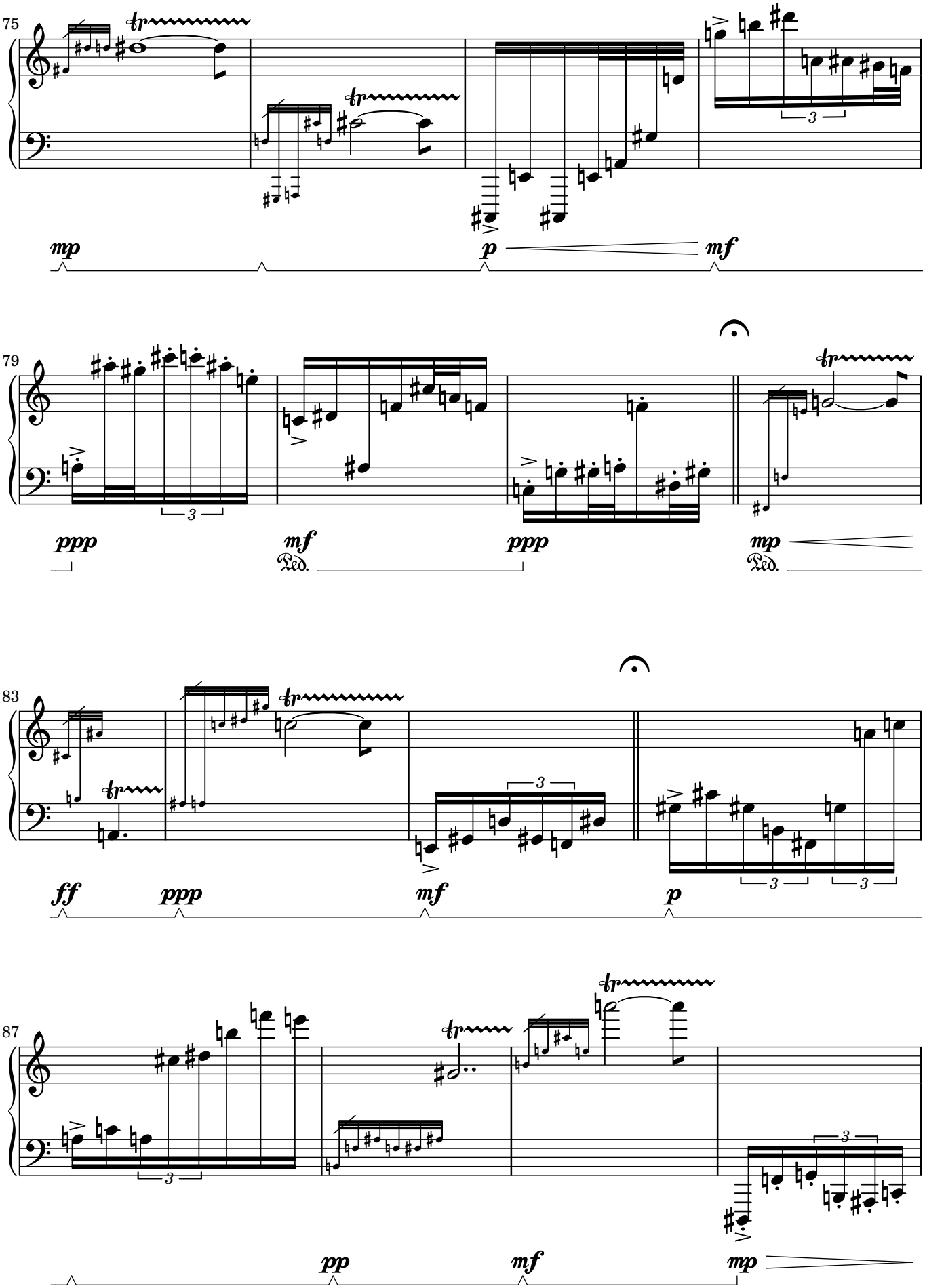
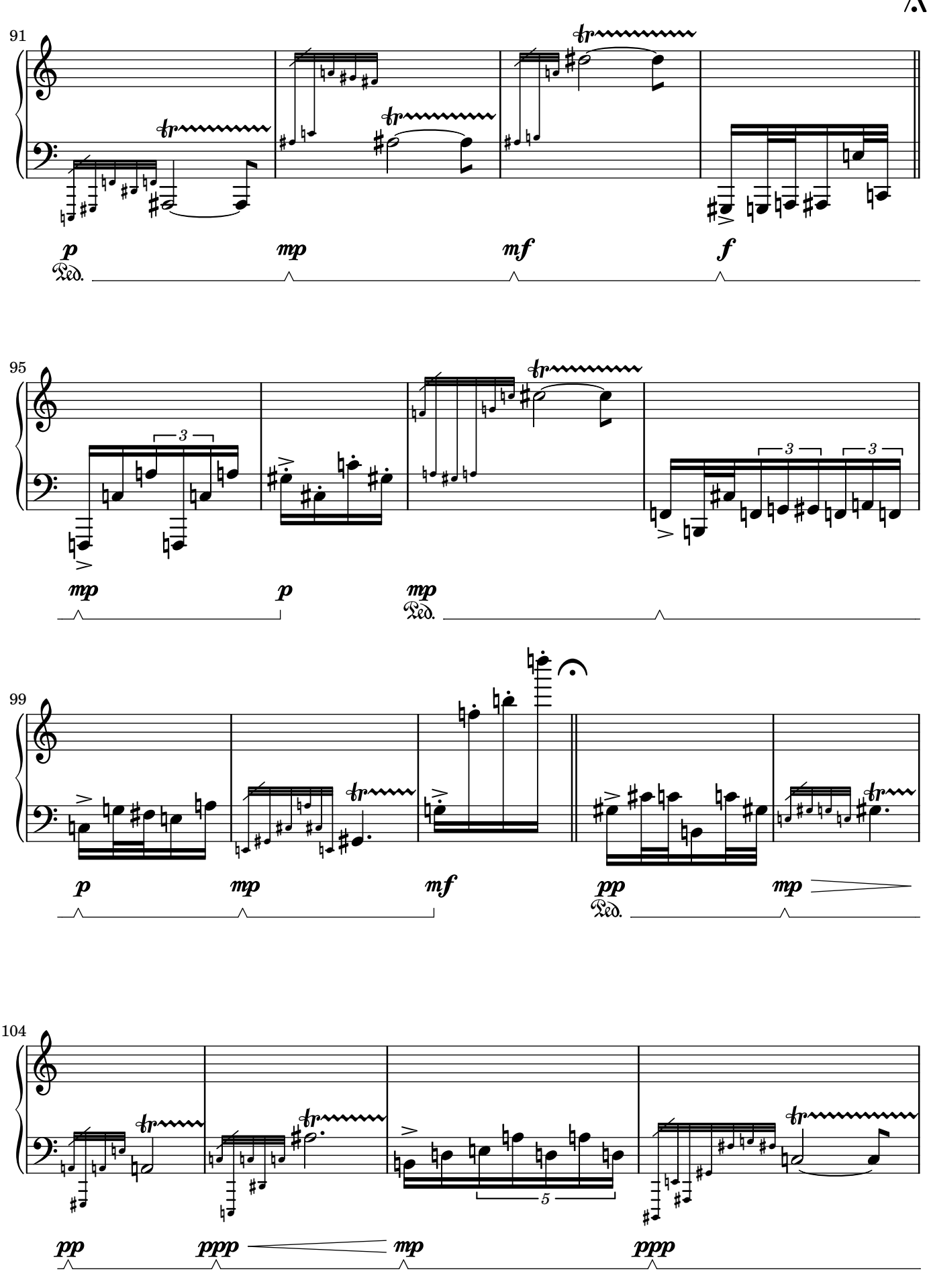
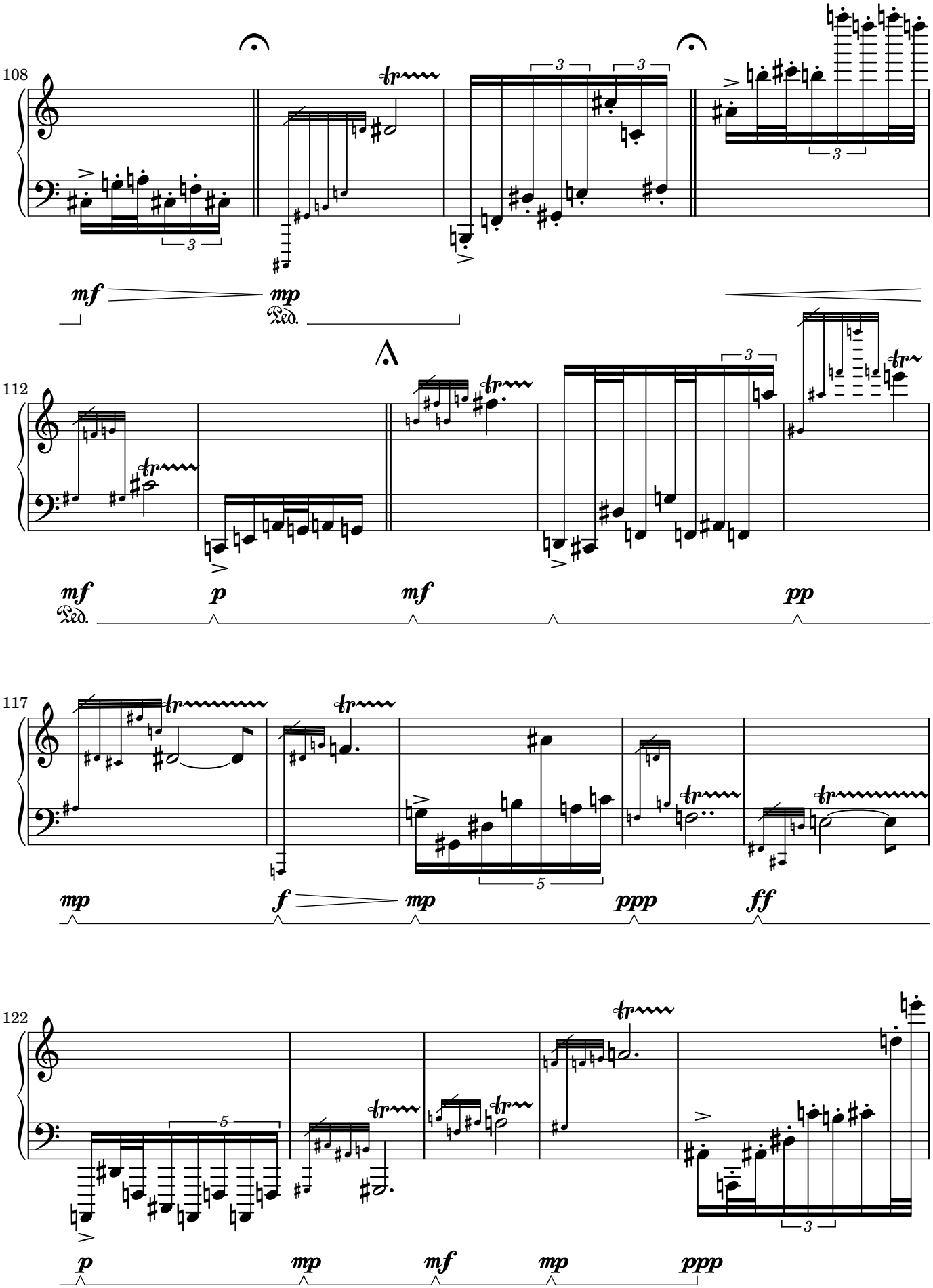
mf
mp
pp
p


A
57
f
Ped.
mp
p
61
mf
f
pp
mf
66
p
ff
ppp
71
mp
pp
mp
ff


75
mp
p
mf
79
ppp
mf
Ped.
ppp
mp
Ped.
83
ff
ppp
mf
p
87
pp
mf
mp


91
p
mp
mf
f
Ped.
95
3
3
3
mp
p
mp
Ped.
99
p
mp
mf
pp
mp
Ped.
104
5
pp
ppp
mp
ppp


108
mf
mp
Ped.
112
mf
p
mf
pp
Ped.
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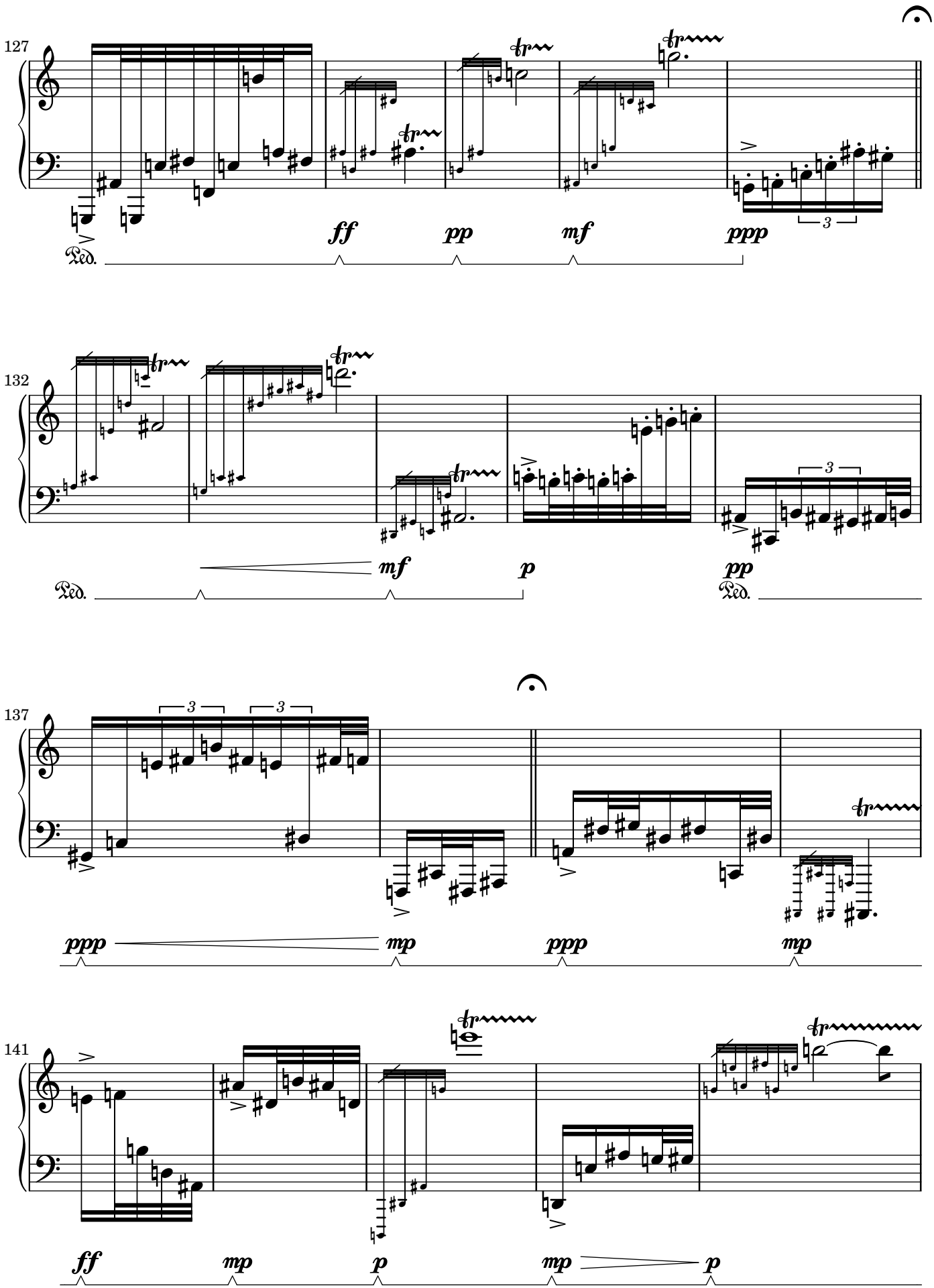
mp
f
mp
ppp
ff
122
p
mp
mf
mp
ppp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ff
pp
mf
ppp
Ped.
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mf
p
pp
Ped.
137
ppp
mp
ppp
mp
141
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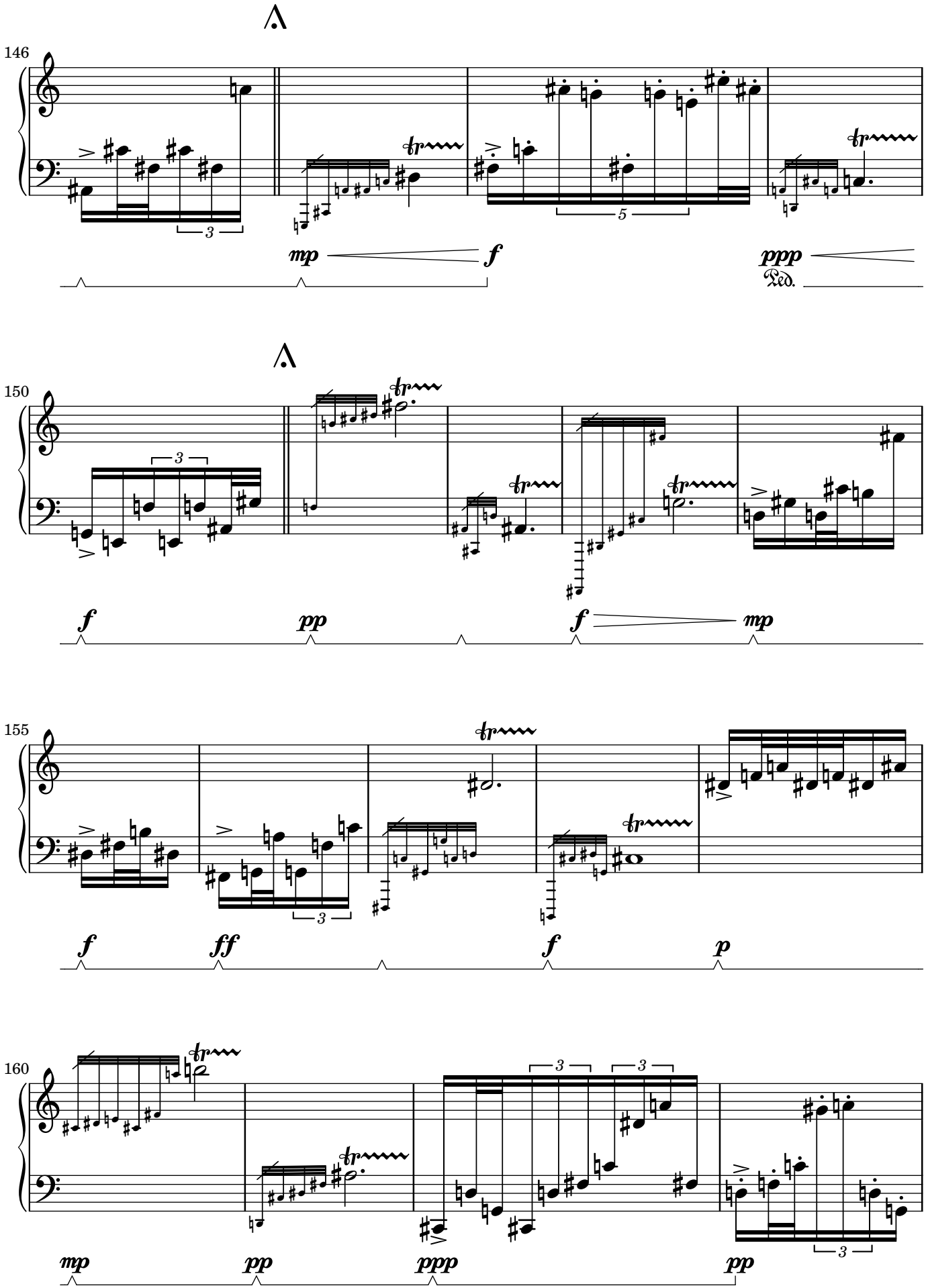
mp
p
mp
p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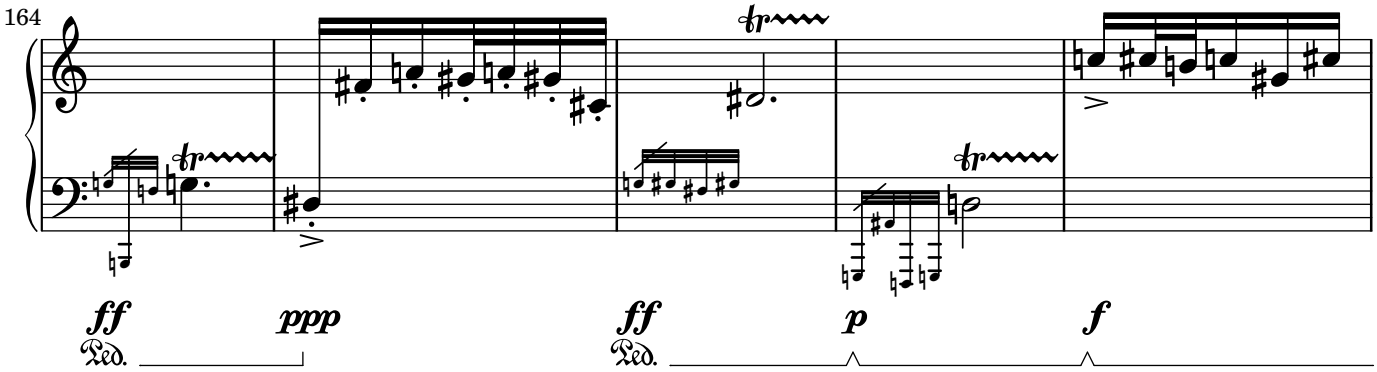
mp
f
ppp
Ped.
150
f
pp
f
mp
155
f
ff
f
p
160
mp
pp
ppp
pp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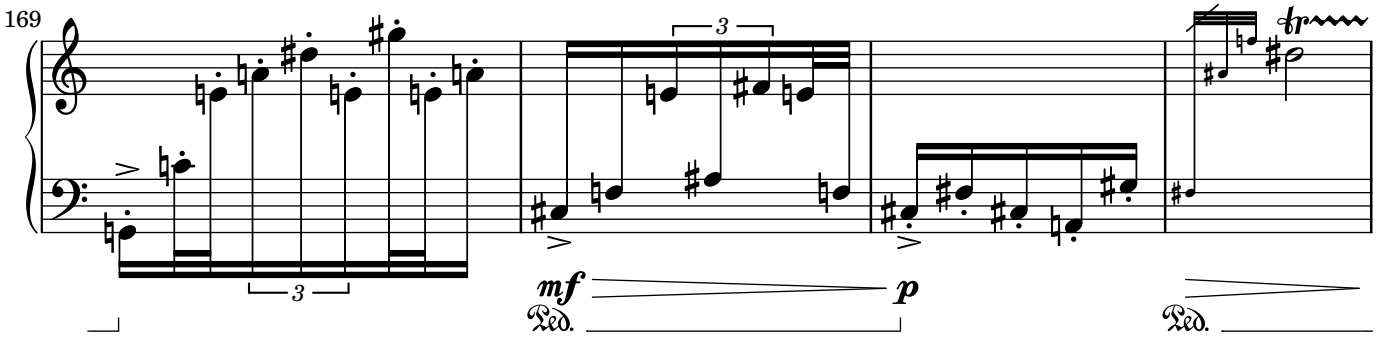
ff
ppp
ff
p
f
Ped.
Ped.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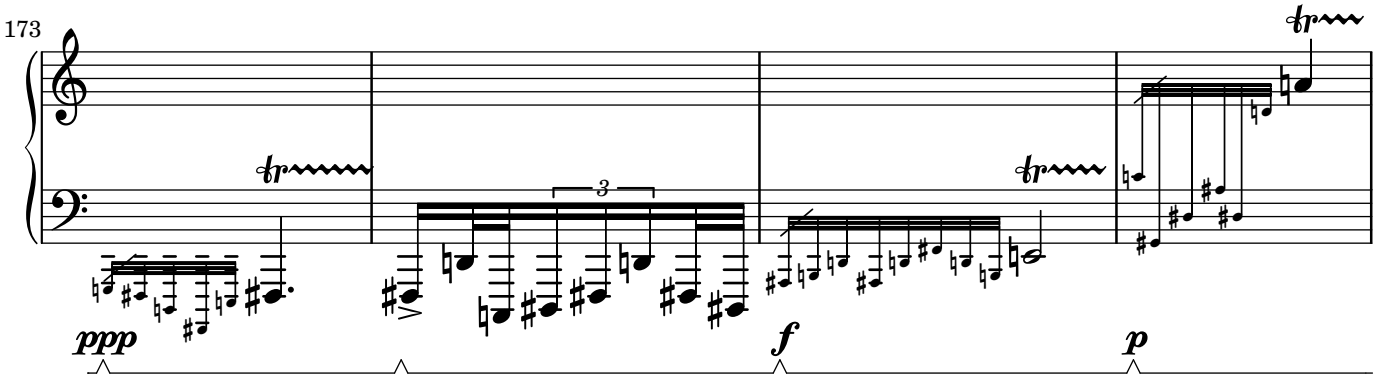
3
3
mf
p
Ped.
Ped.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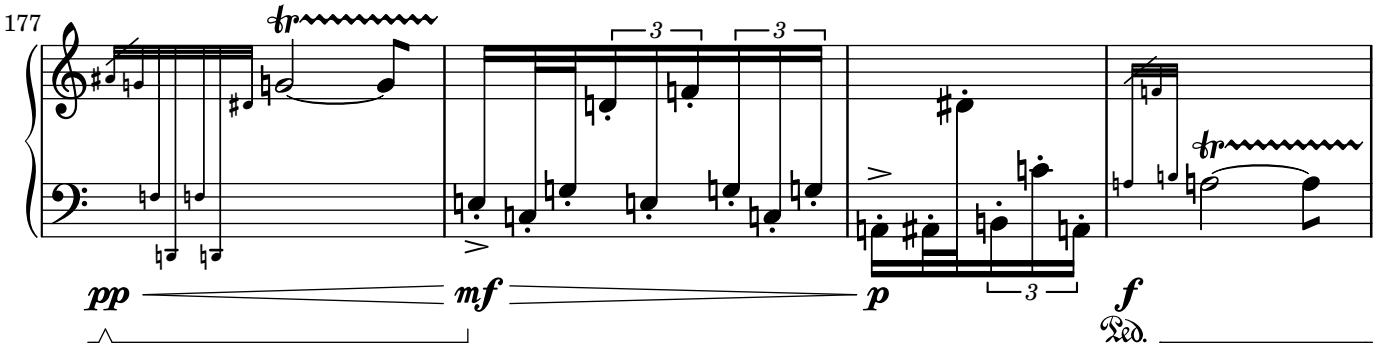
3
ppp
f
p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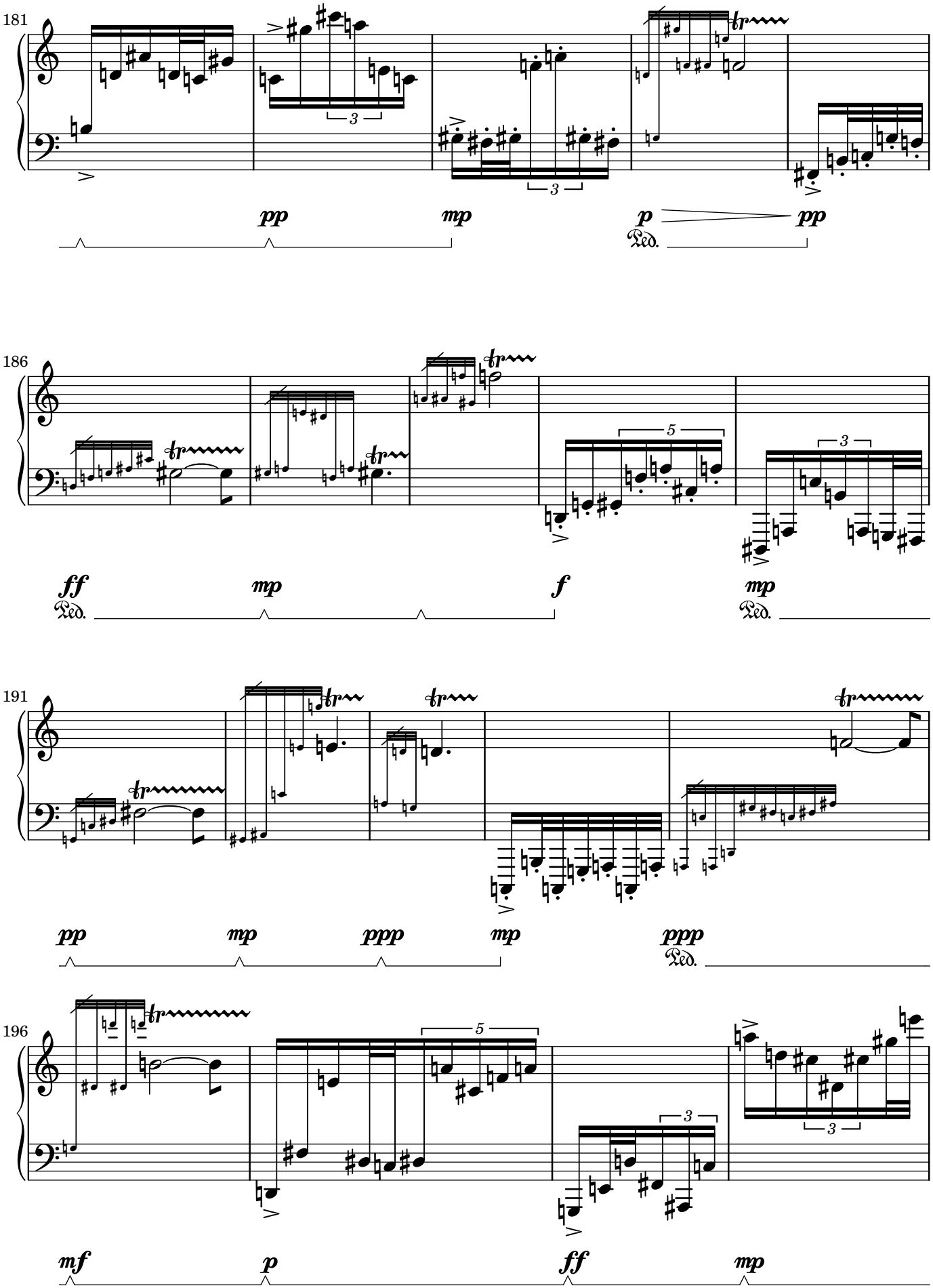
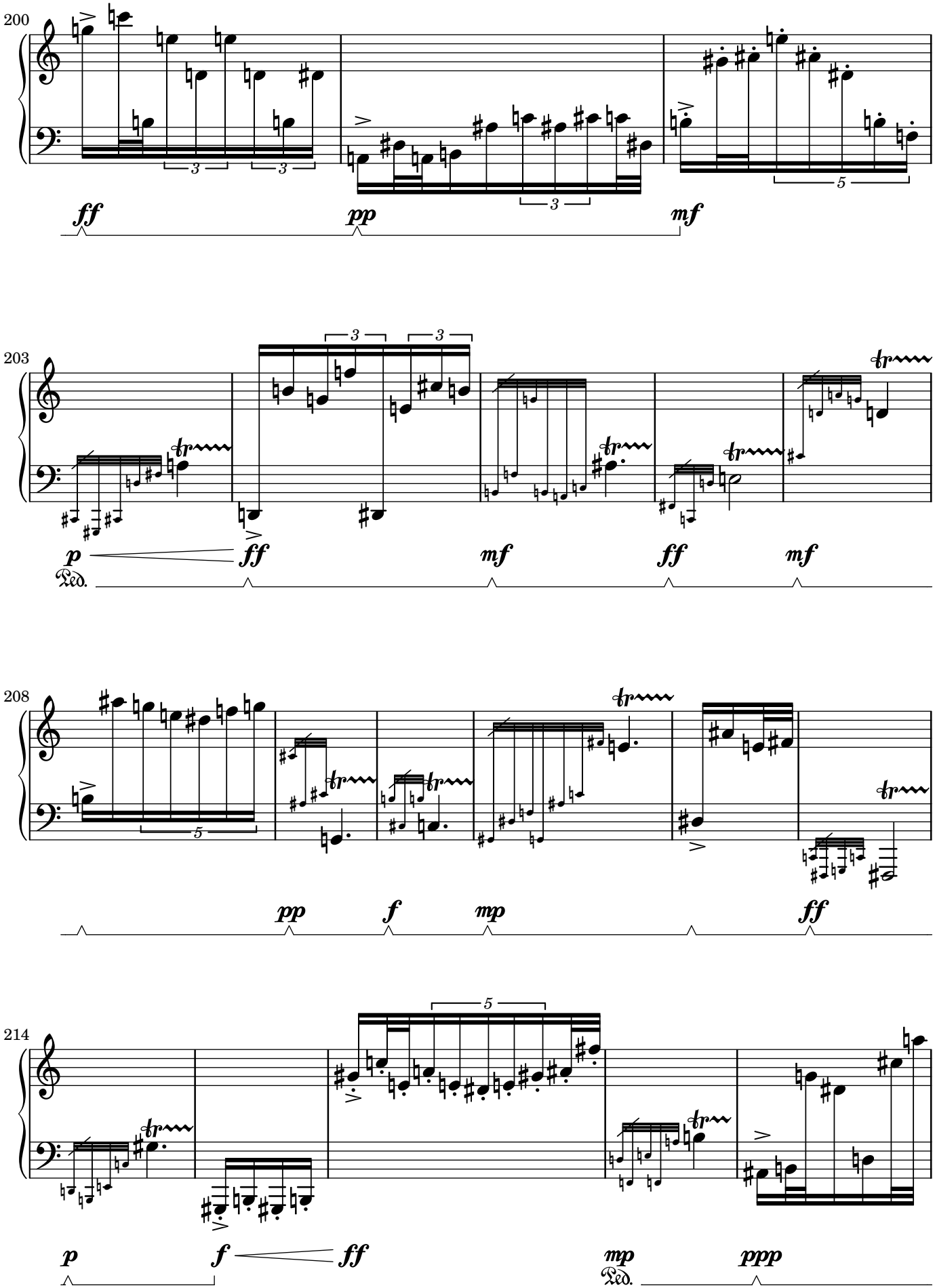
3
3
pp
mf
p
3
f
Ped.


181
pp
mp
p
pp
Ped.
186
ff
mp
f
mp
Ped.
191
pp
mp
ppp
mp
ppp
Ped.
196
mf
p
ff
mp


200
ff
pp
mf
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p
ff
mf
ff
mf
Ped.
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pp
f
mp
ff
214
p
f
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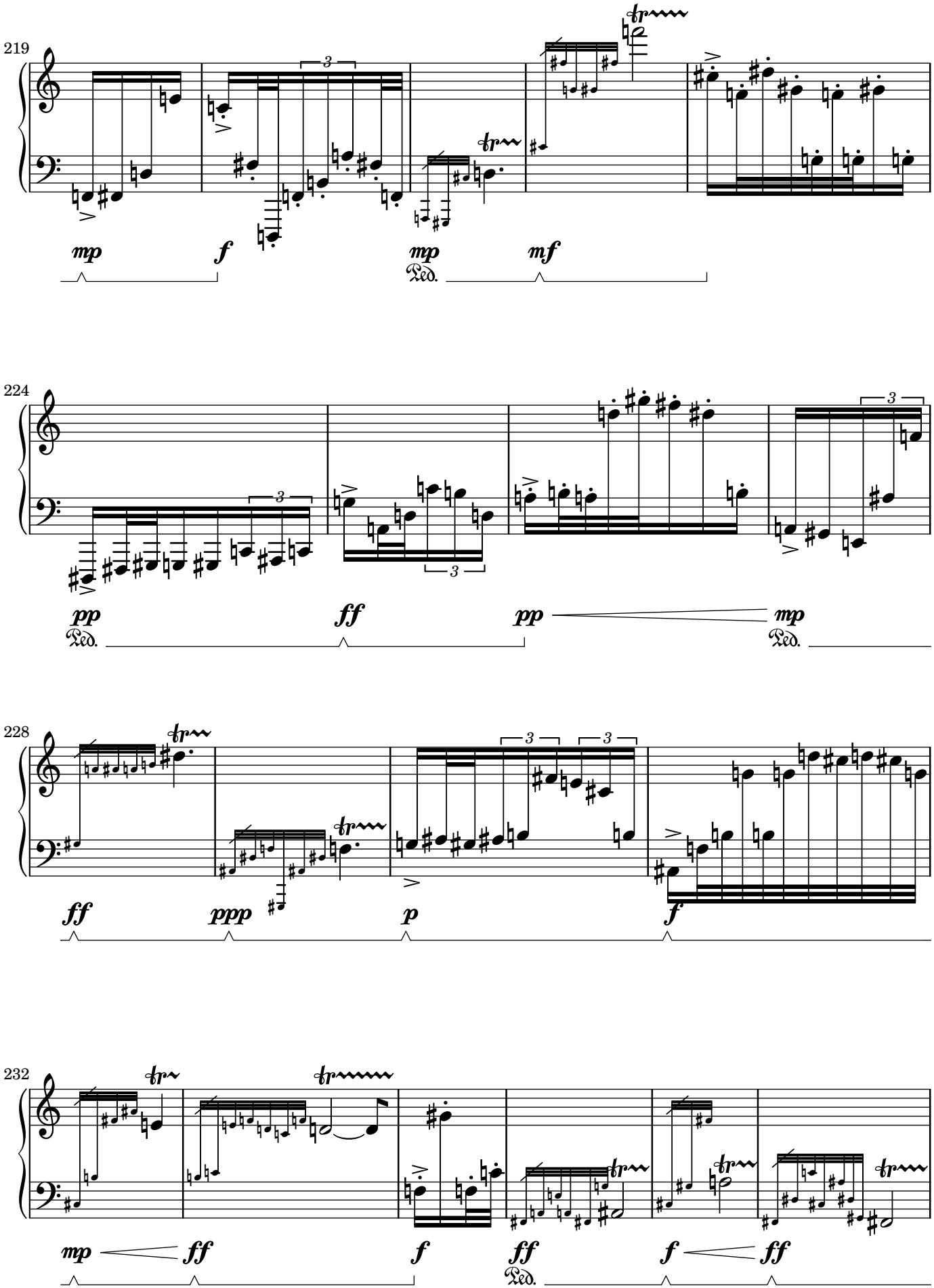
mp
ppp
Ped.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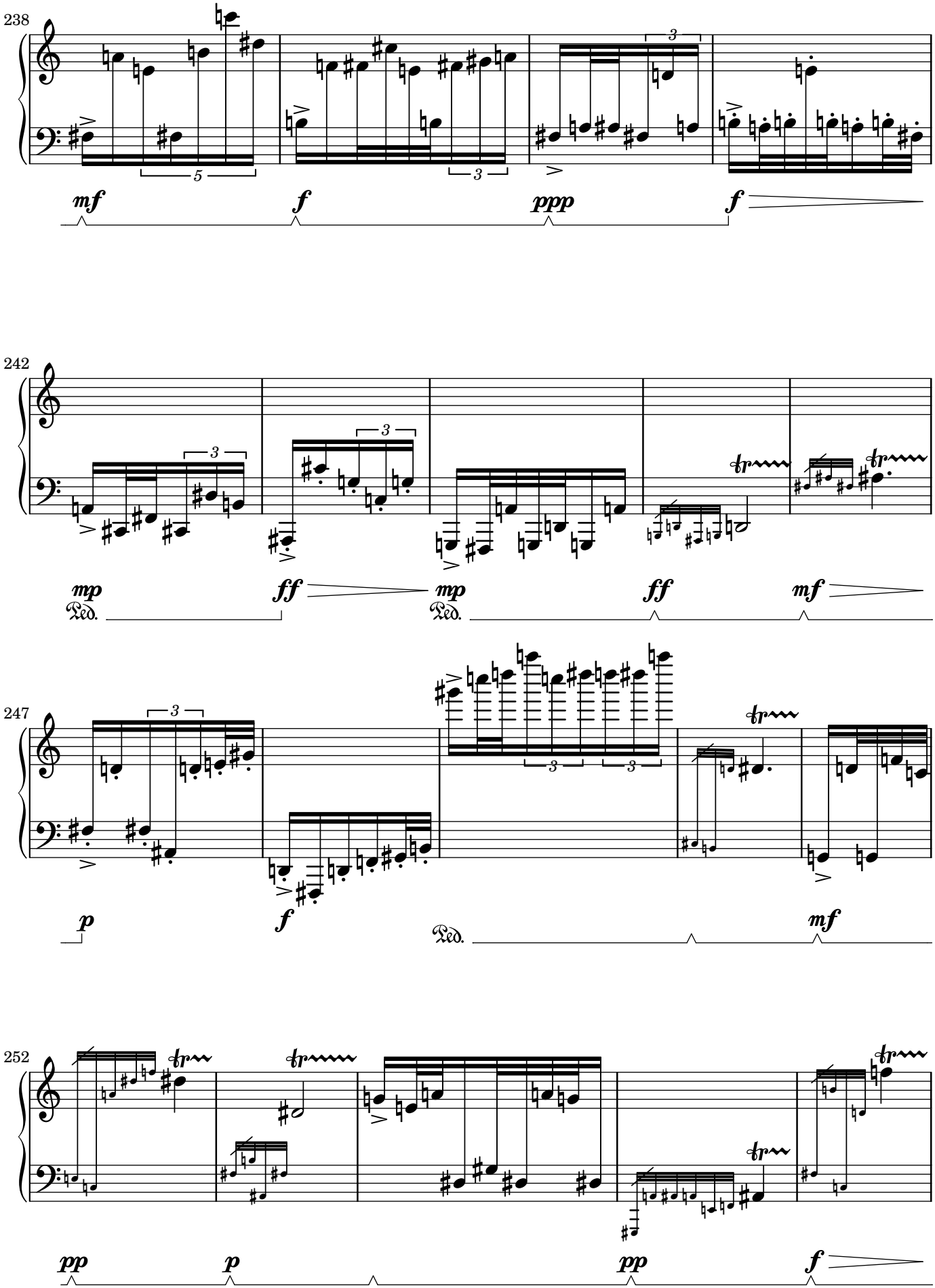
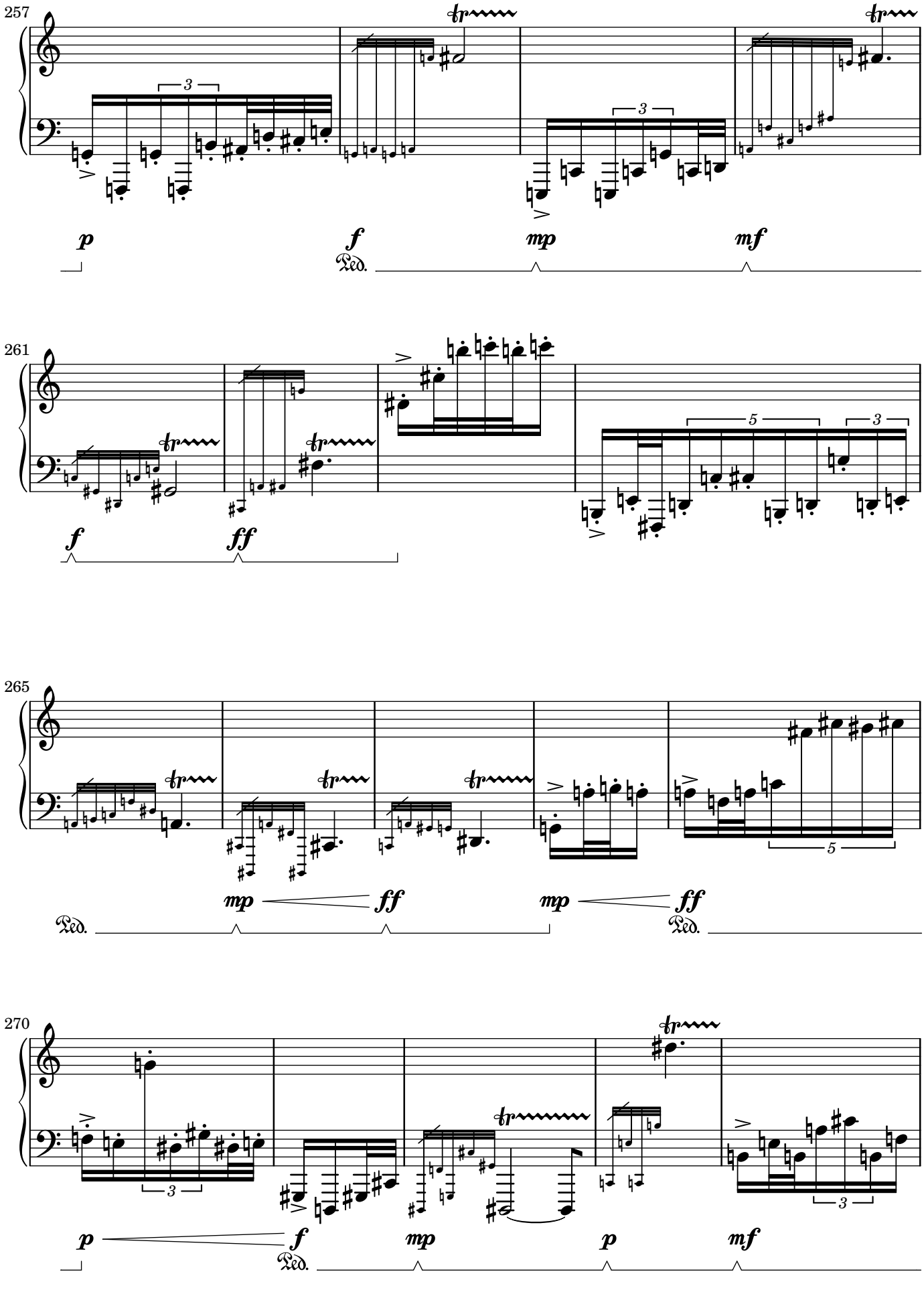
mp
f
mp
Ped.
mf
224
pp
ff
pp
mp
Ped.
228
ff
ppp
p
f
232
mp
ff
f
ff
Ped.
f
ff


238
mf
f
ppp
f
242
mp
Ped.
ff
mp
Ped.
ff
mf
247
p
f
Ped.
mf
252
pp
p
pp
f


257
p
f
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mf
Ped.
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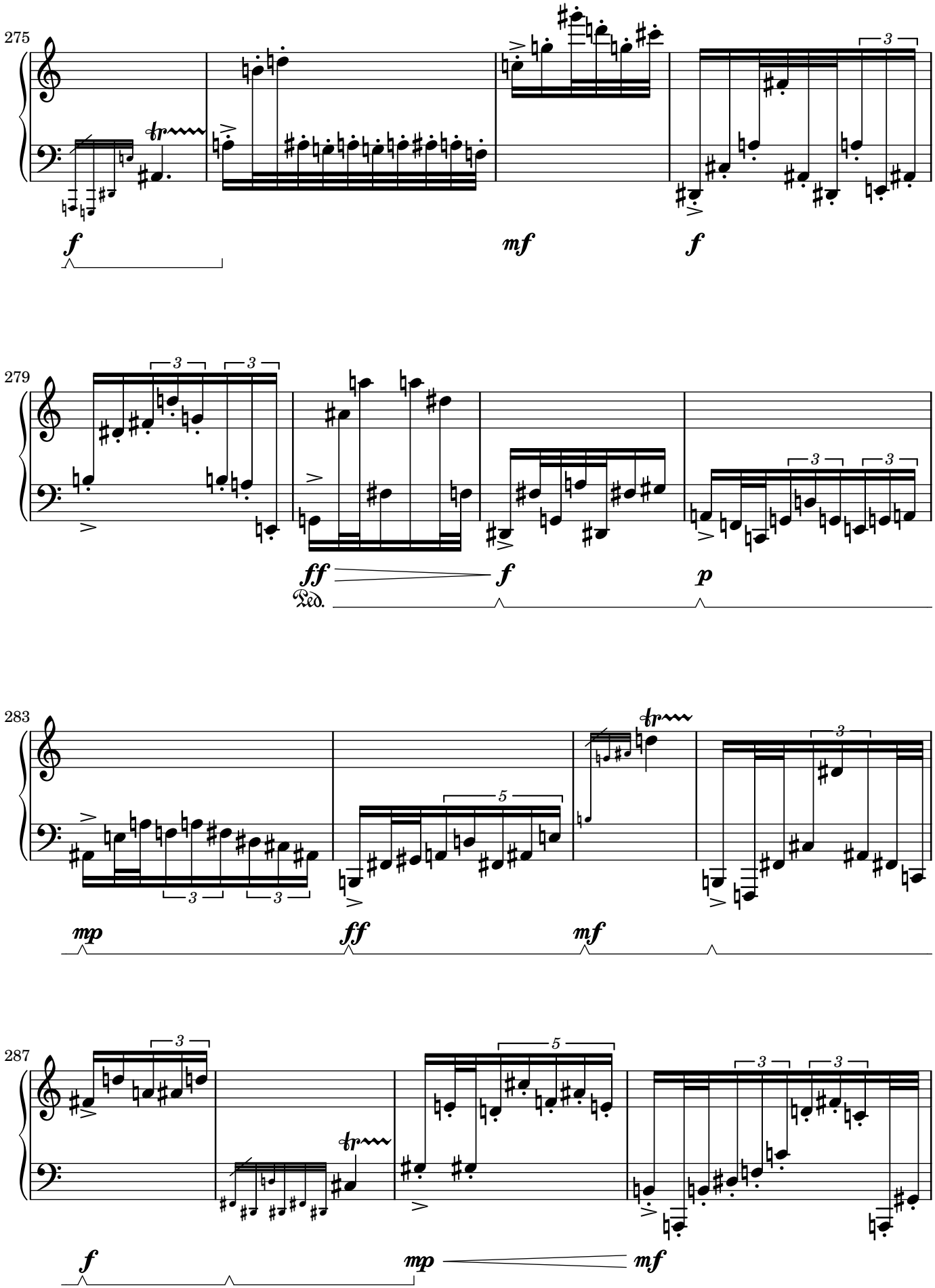
ff
265
mp
ff
mp
ff
Ped.
270
p
f
mp
p
mf
Ped.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Ped.
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283
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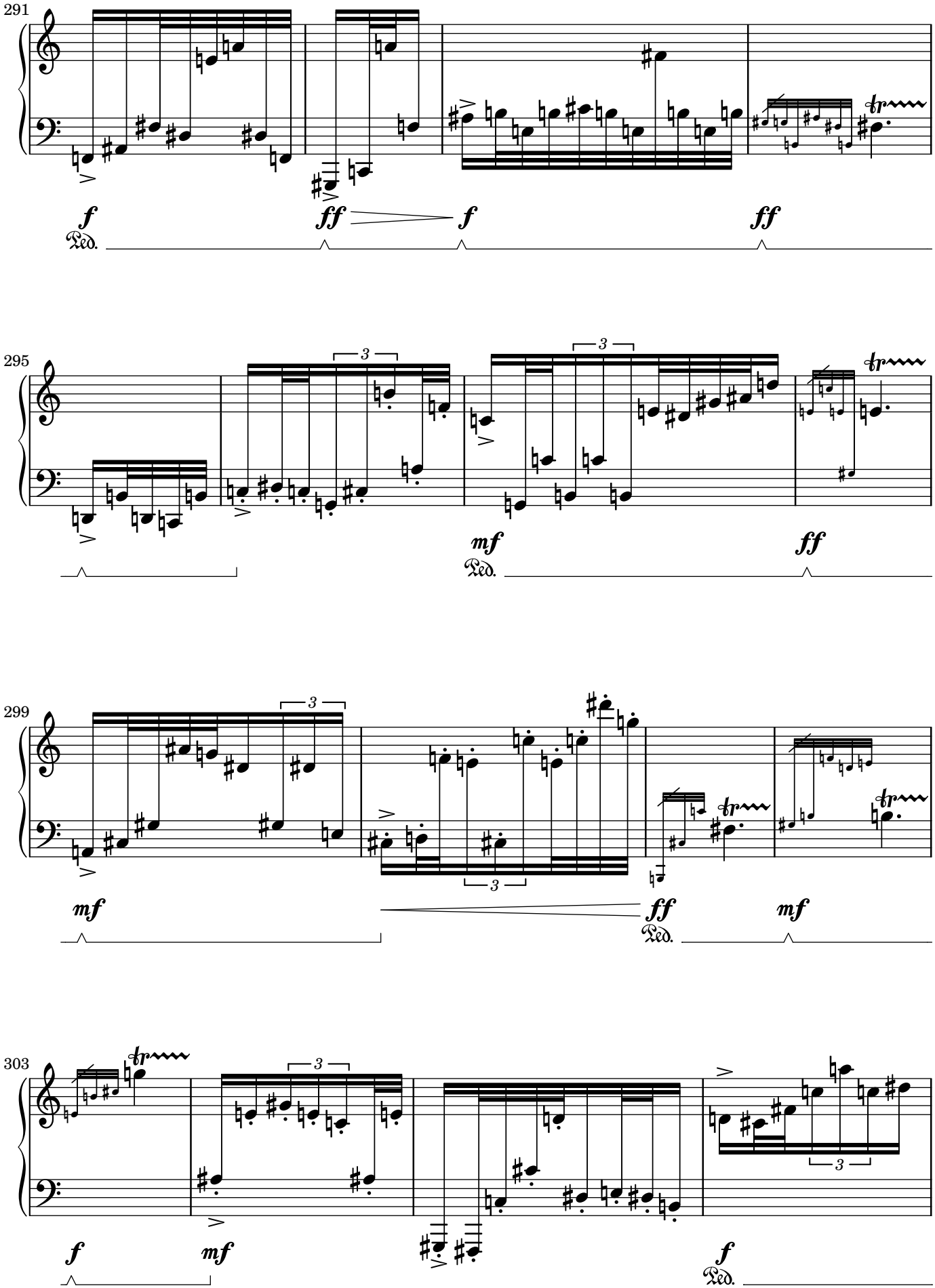
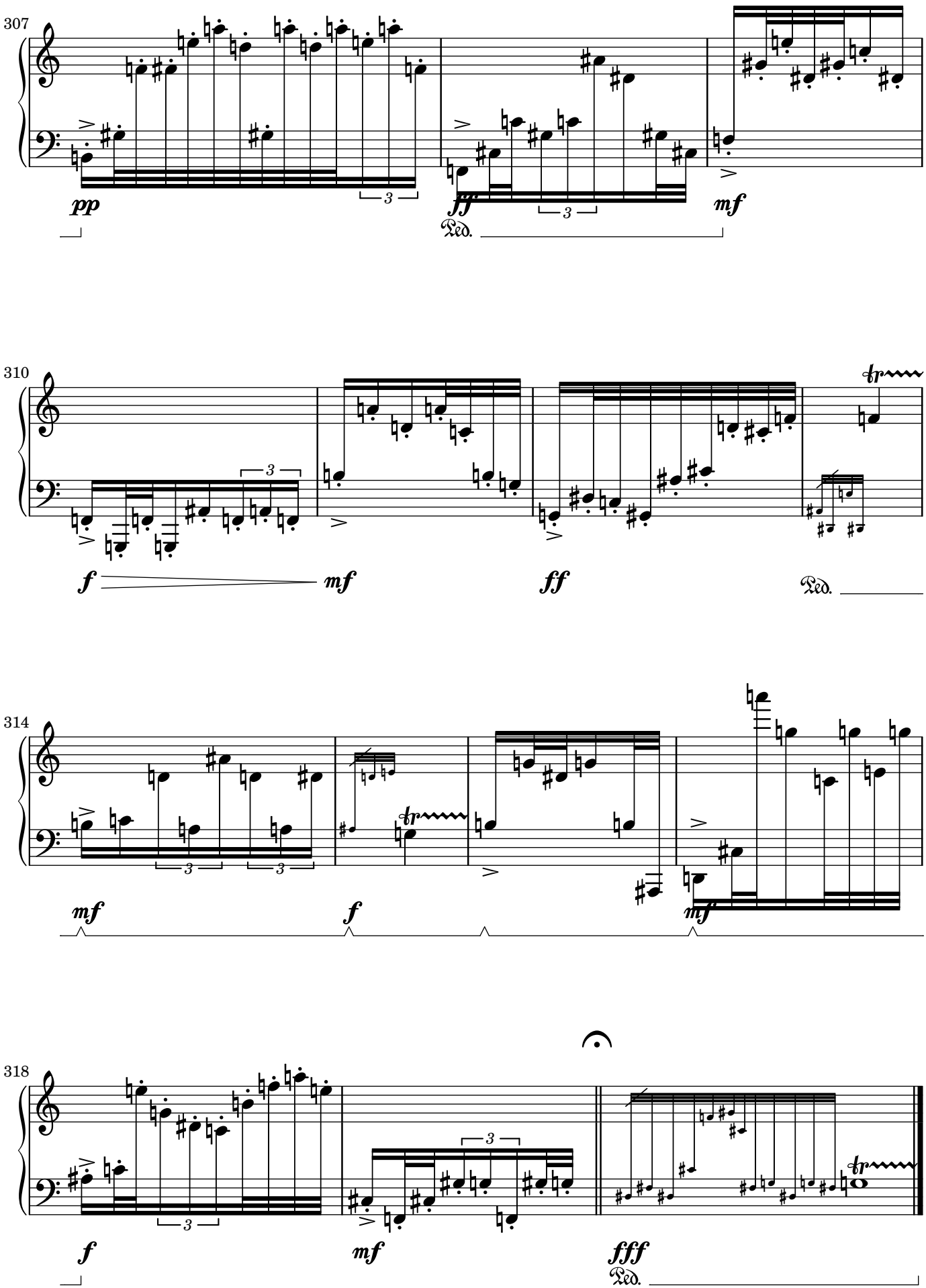
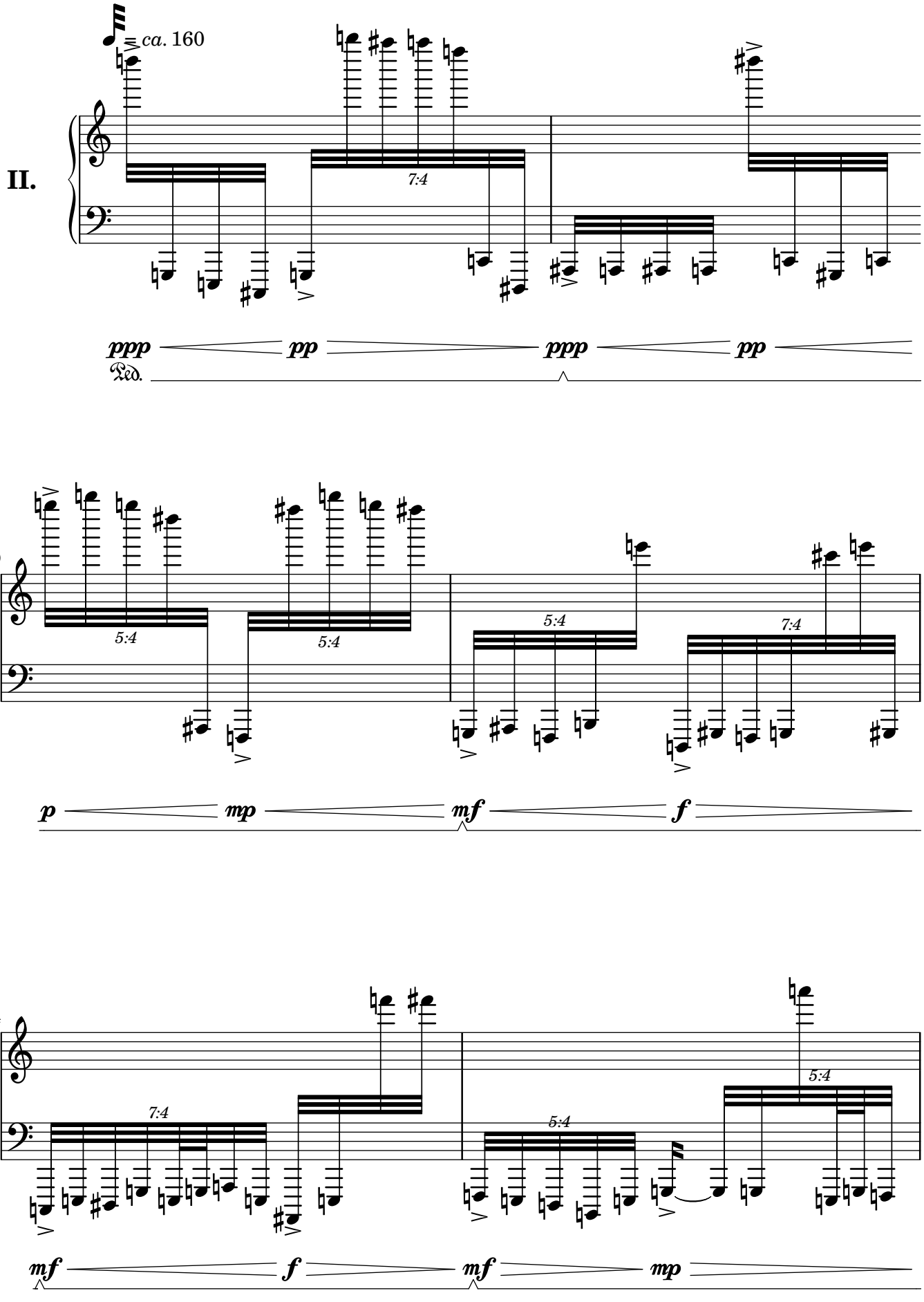
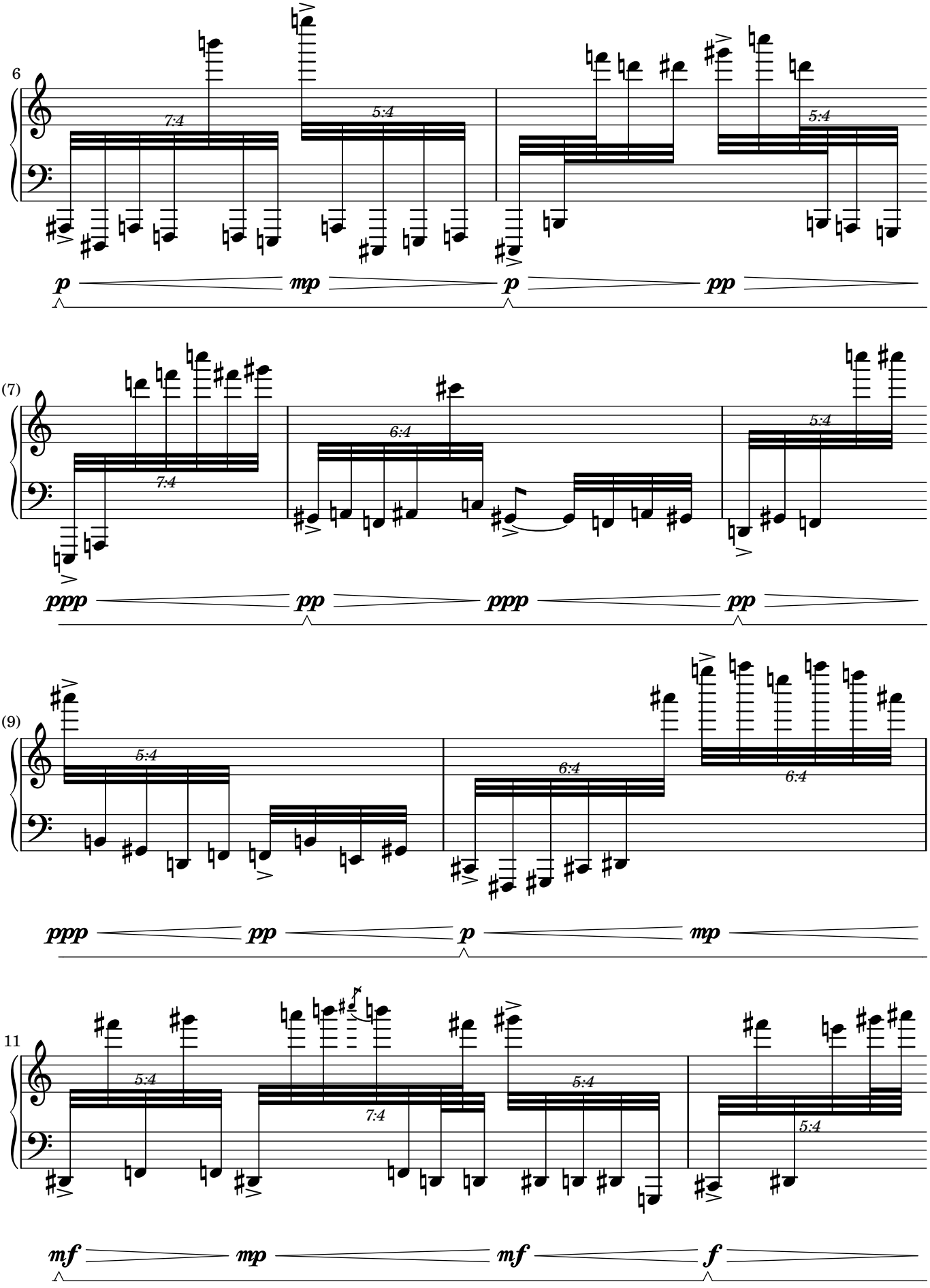
mf
287
f
mp
mf


291
f
ff
f
ff
Ped.
295
3
mf
ff
Ped.
299
3
mf
ff
mf
Ped.
303
3
f
mf
f
Ped.


307
pp
ff
mf
Ped.
310
f
mf
ff
tr
Ped.
314
mf
f
mf
318
f
mf
fff
Ped.


II.
ca. 160
7:4
ppp
pp
ppp
pp
Ped.
(2)
5:4
5:4
5:4
7:4
p
mp
mf
f
4
7:4
5:4
5:4
mf
f
mf
mp


6
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5:4
5:4
p
mp
p
pp
(7)
7:4
6:4
5:4
ppp
pp
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pp
(9)
5:4
6:4
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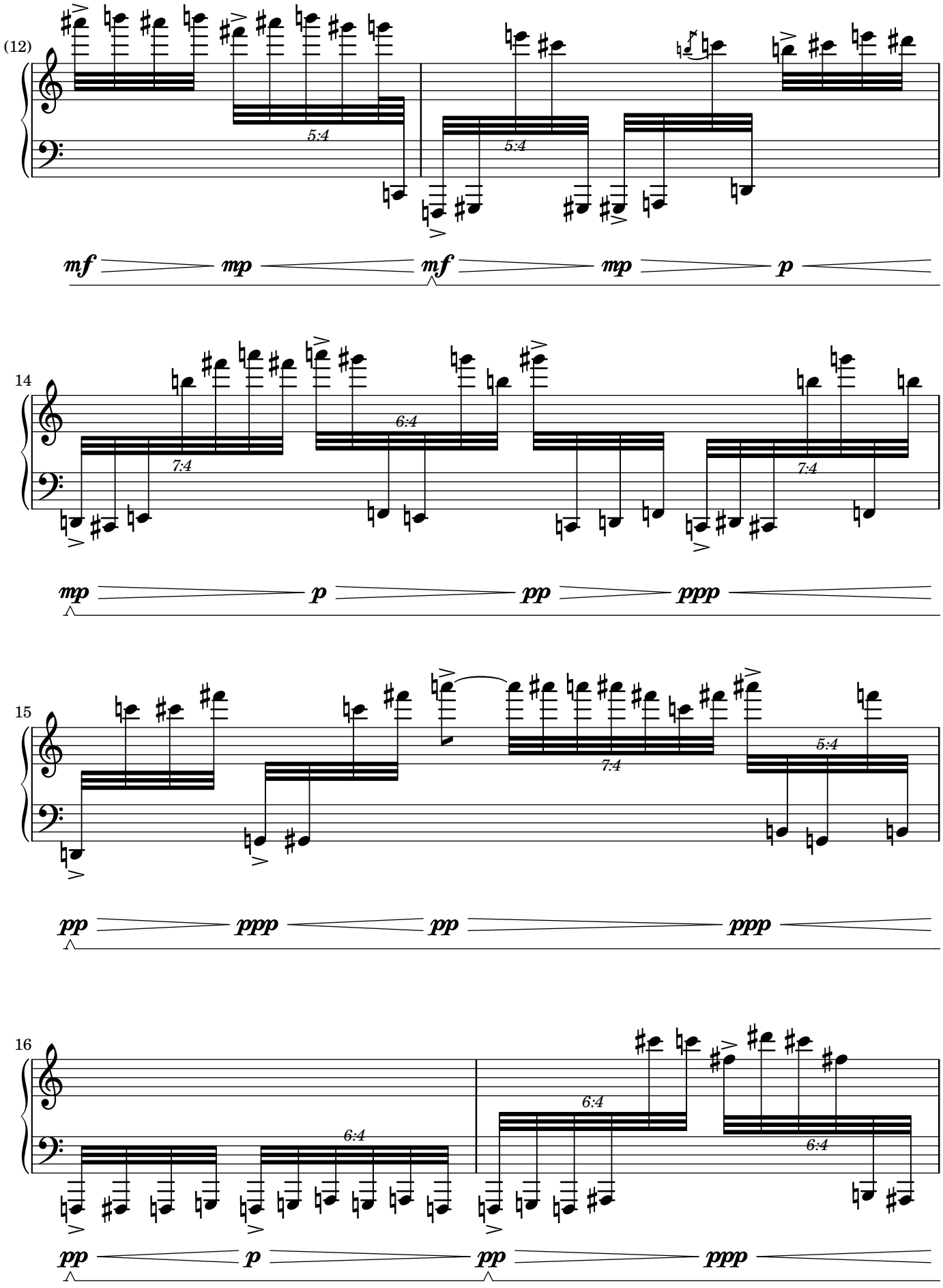
ppp
pp
p
mp
11
5:4
7:4
5:4
5:4
mf
mp
mf
f


(12)
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14
7:4
6:4
7:4
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p
pp
ppp
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7:4
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6:4
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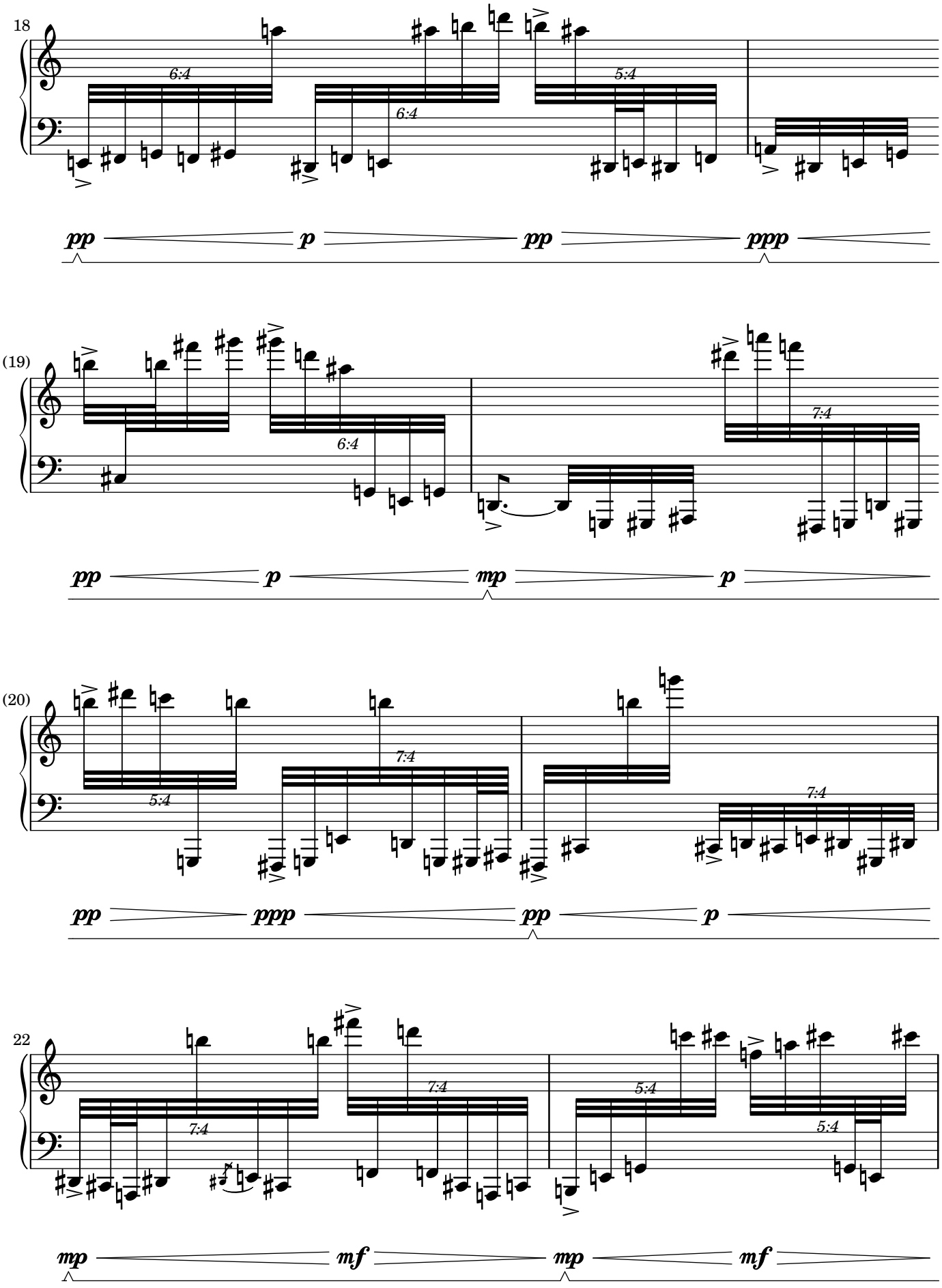
p
pp
ppp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6:4
5:4
pp
p
pp
ppp
(19)
6:4
7:4
pp
p
mp
p
(20)
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ppp
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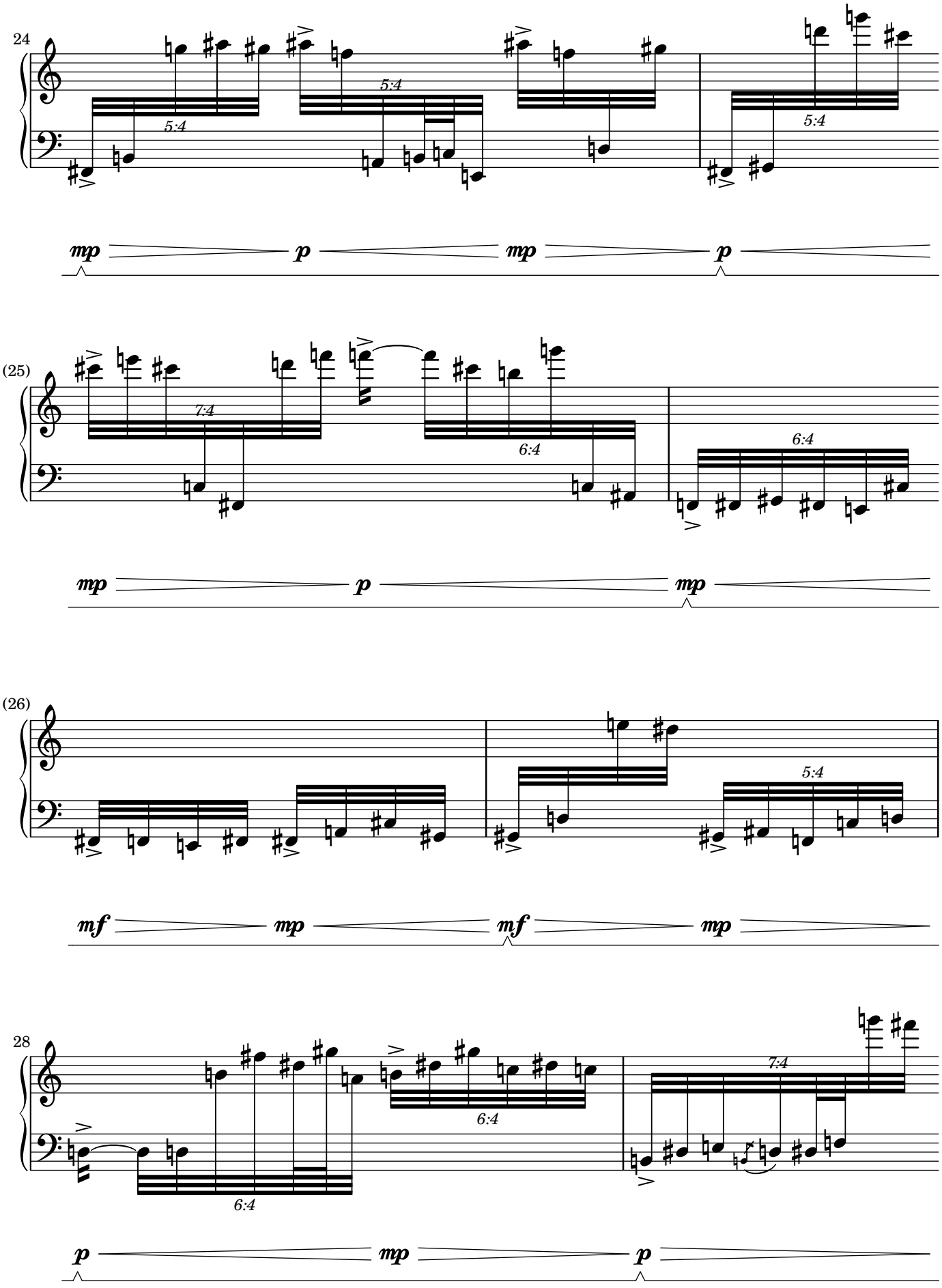
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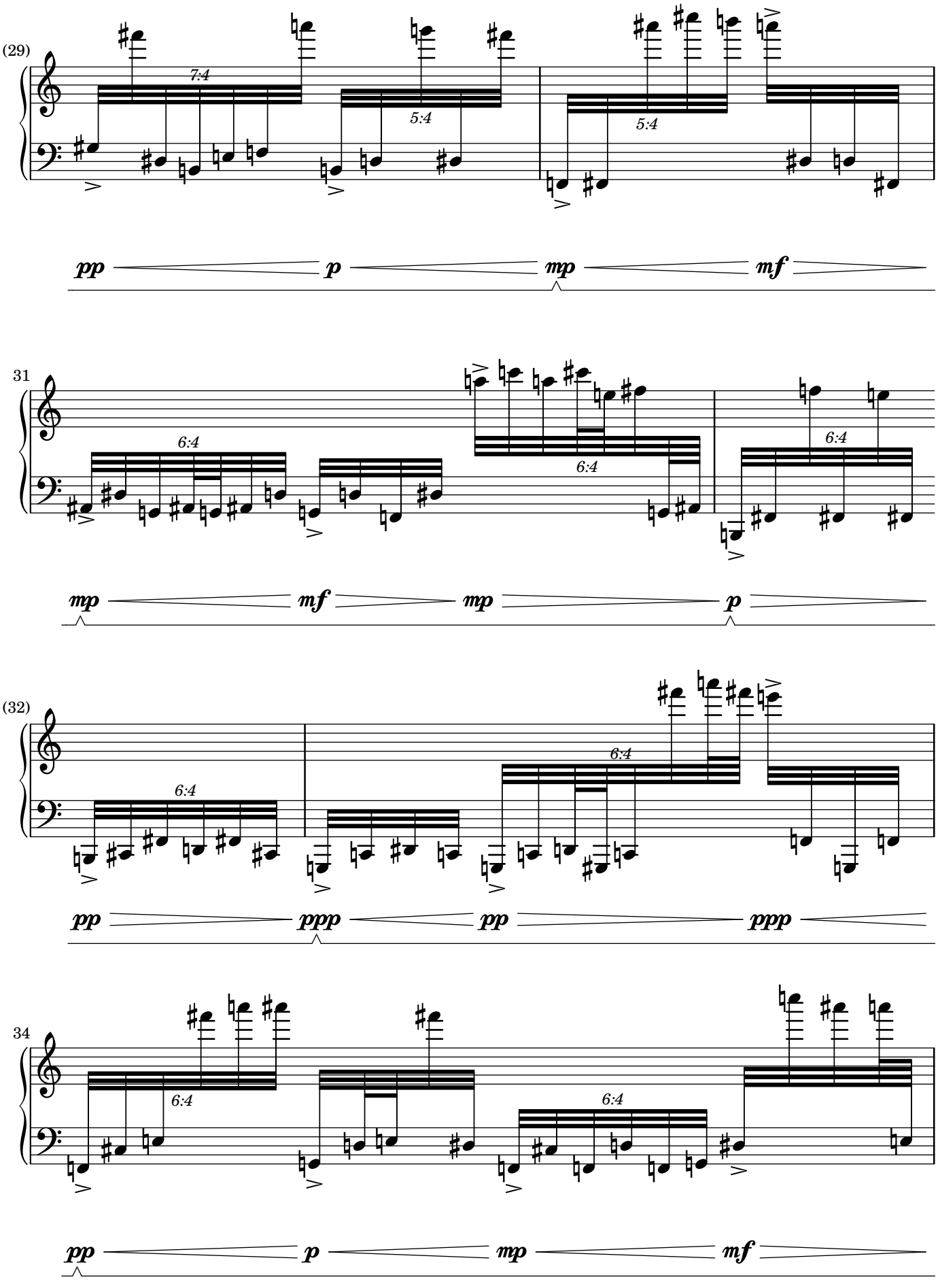
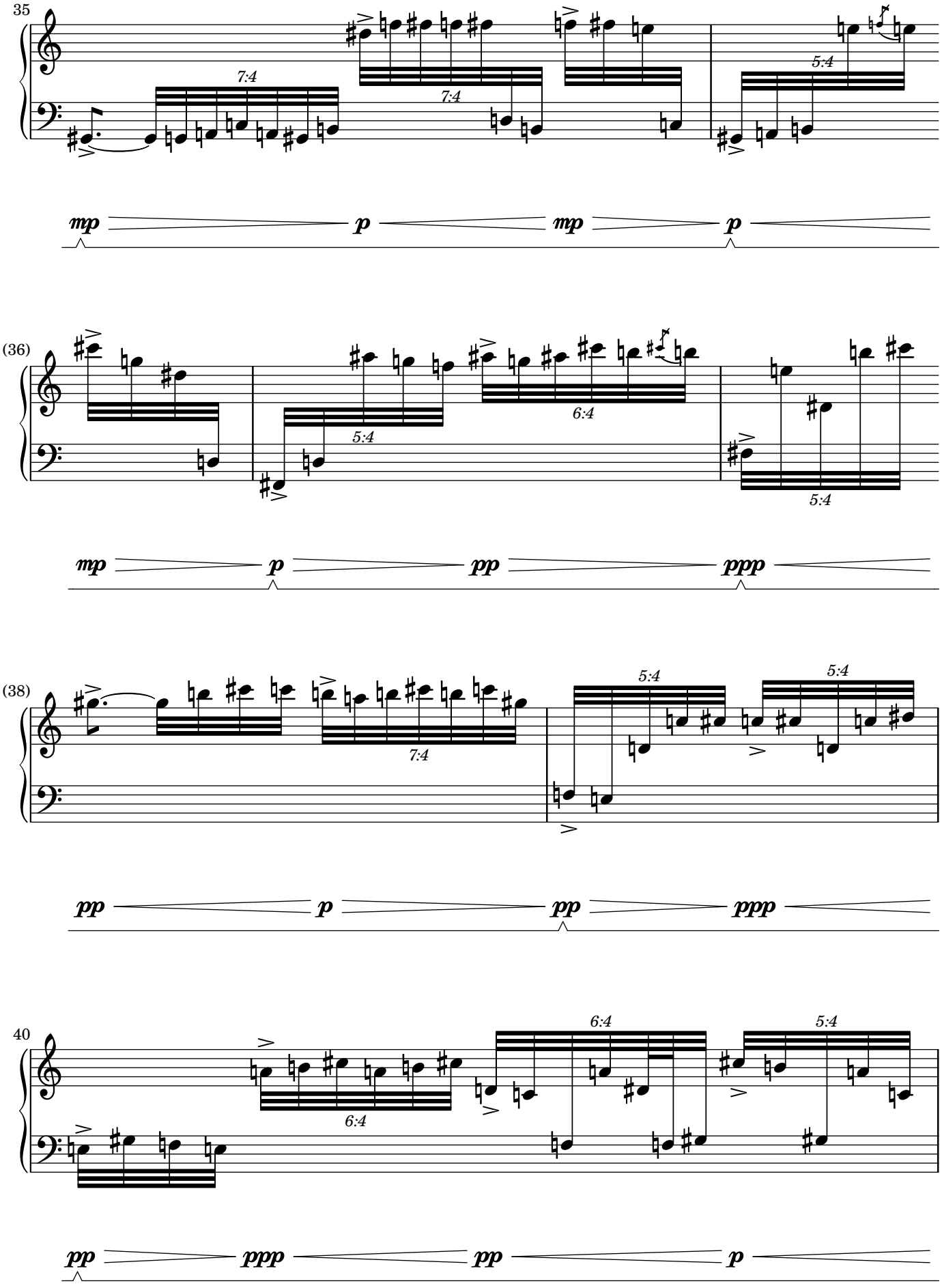
5:4
5:4
5:4
mp
p
mp
p
(25)
7:4
6:4
6:4
mp
p
mp
(26)
5:4
mf
mp
mf
mp
28
6:4
6:4
7:4
p
mp
p


(29)
7:4
5:4
5:4
pp
p
mp
mf
31
6:4
6:4
6:4
mp
mf
mp
p
(32)
6:4
6:4
pp
ppp
pp
ppp
34
6:4
6:4
pp
p
mp
mf


35
7:4
7:4
5:4
mp
p
mp
p
(36)
5:4
6:4
5:4
mp
p
pp
ppp
(38)
7:4
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ppp
40
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6:4
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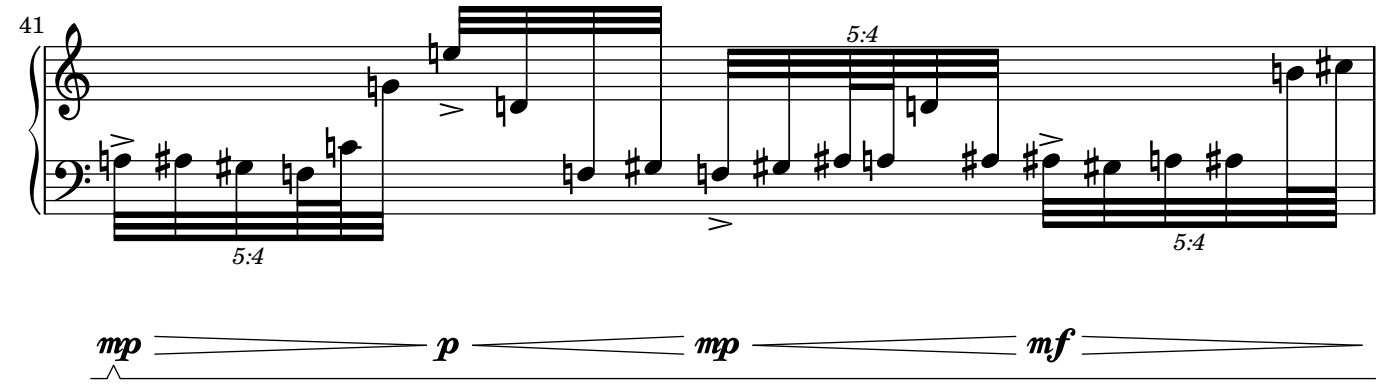
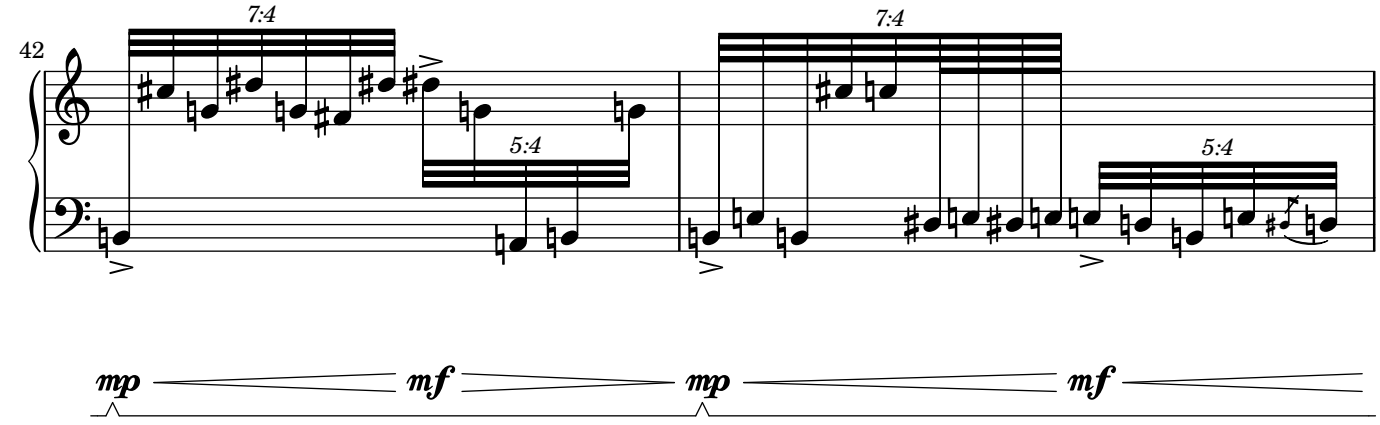
pp
p


41
5:4
5:4
5:4
mp
p
mp
mf


42
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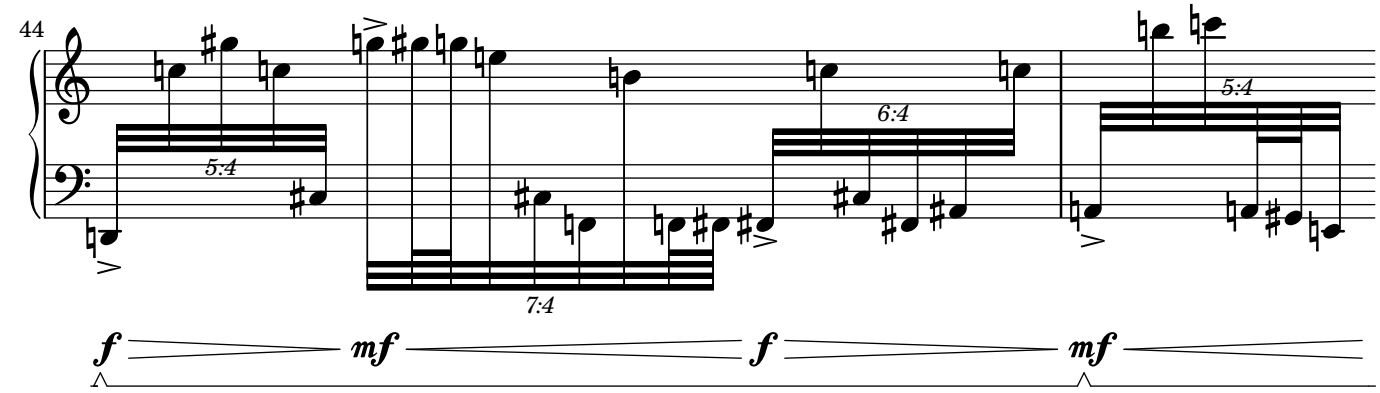
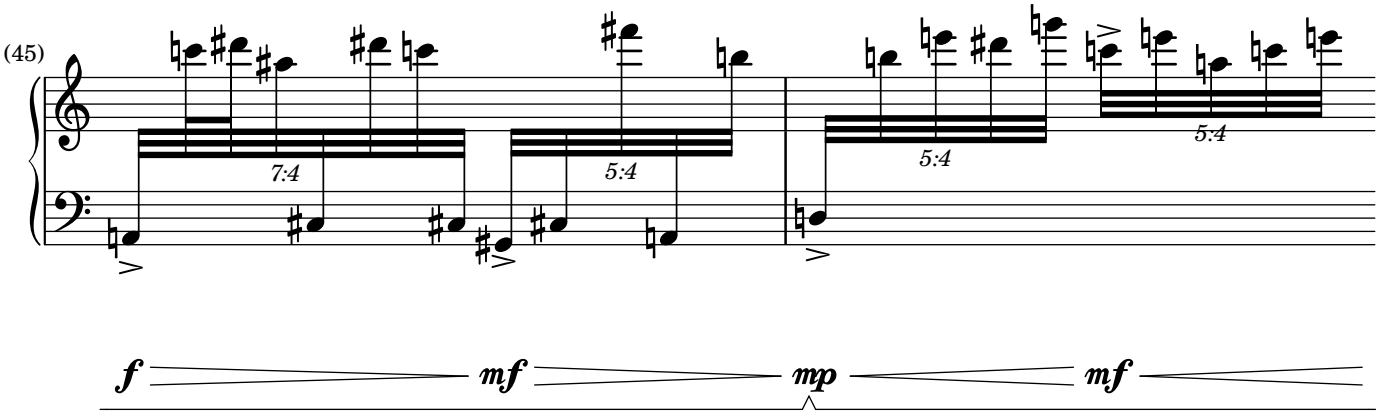
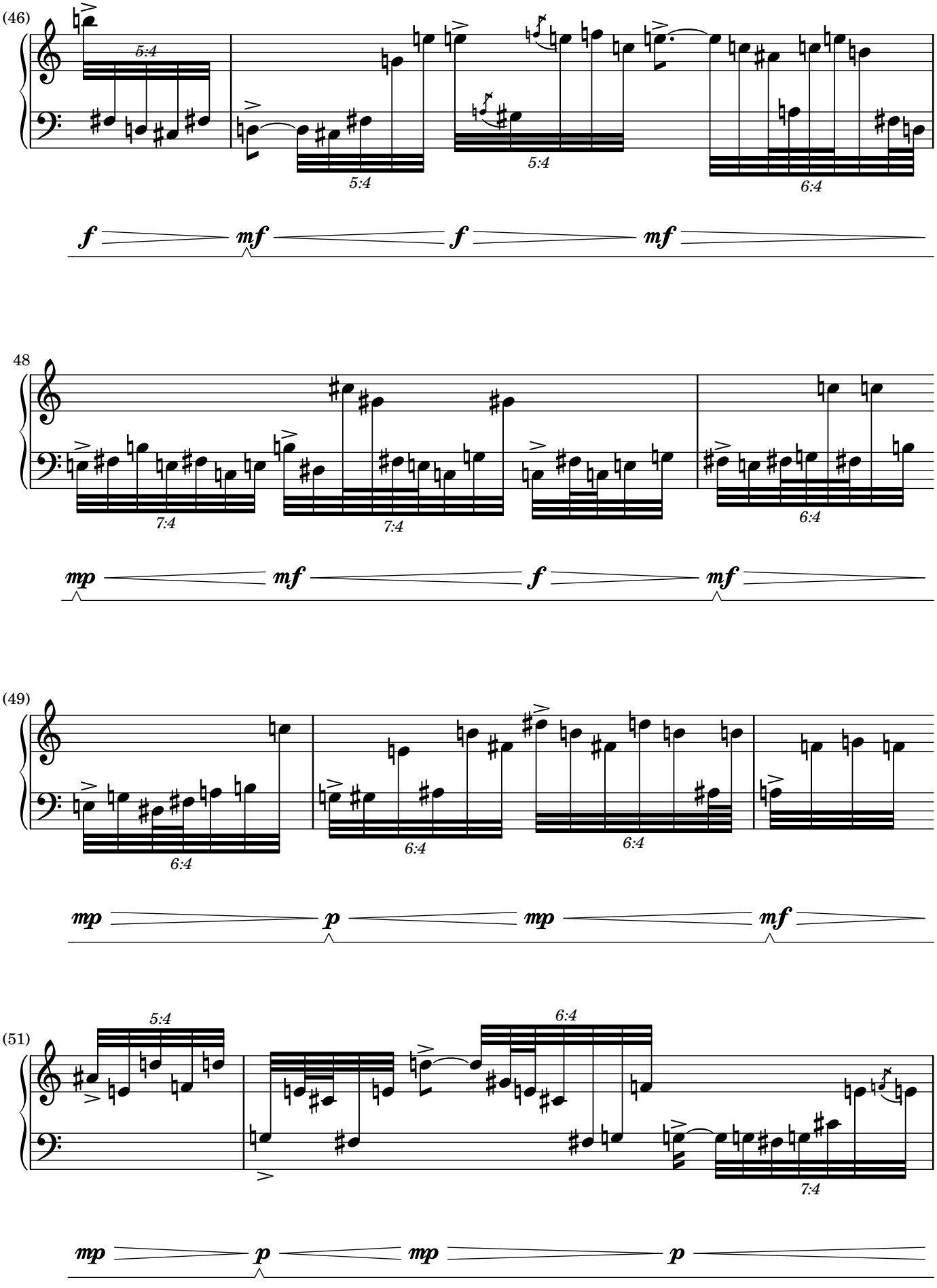
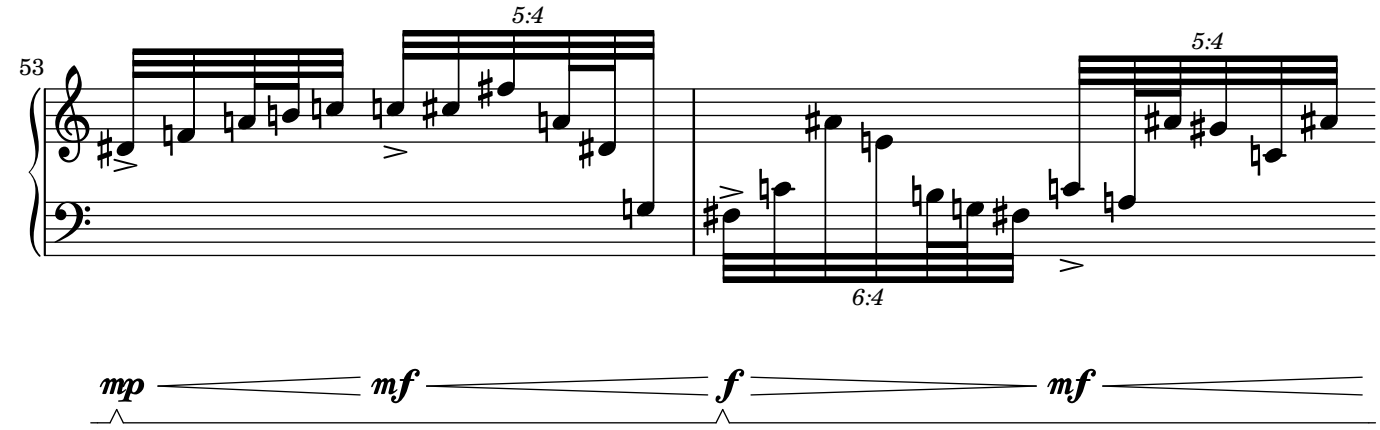
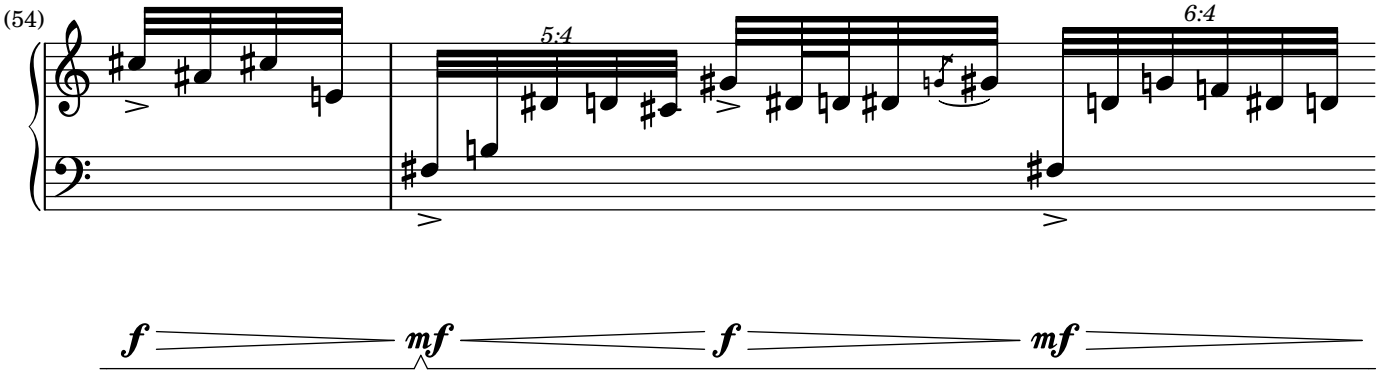
5:4
7:4
5:4
mp
mf
mp
mf

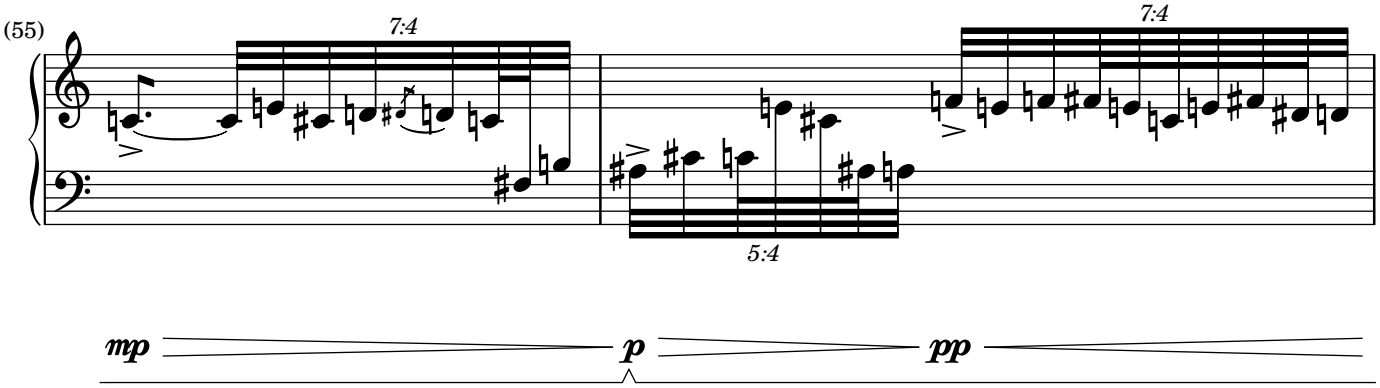

44
5:4
7:4
6:4
5:4
f
mf
f
mf


(45)
7:4
5:4
5:4
5:4
f
mf
mp
mf


(46)
5:4
5:4
5:4
6:4
f
mf
f
mf
48
7:4
7:4
6:4
mp
mf
f
mf
(49)
6:4
6:4
6:4
mp
p
mp
mf
(51)
5:4
6:4
7:4
mp
p
mp
p


53
5:4
5:4
6:4
mp
mf
f
mf


(54)
5:4
6:4
f
mf
f
mf


(55)
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7:4
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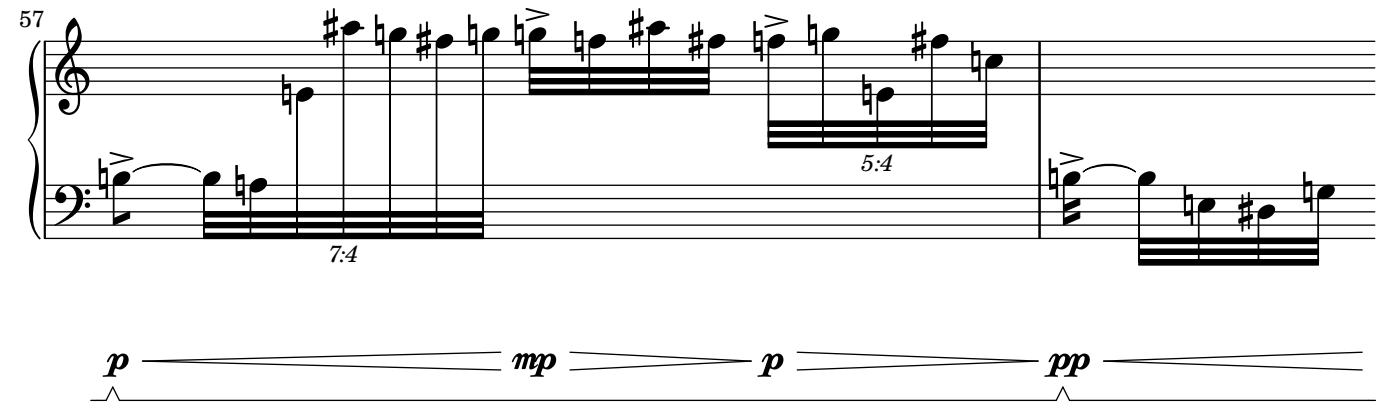
p
pp


57
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7:4
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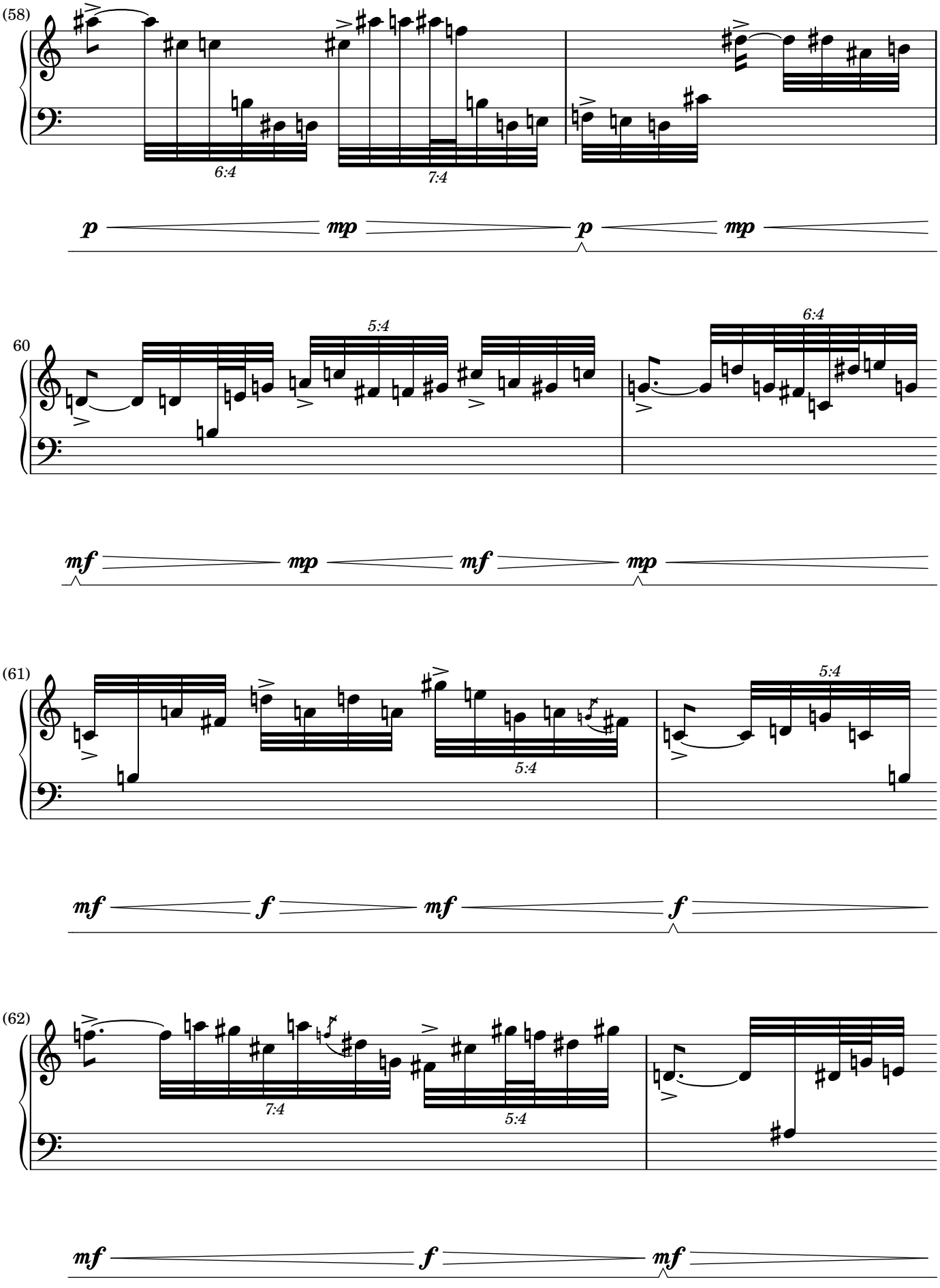
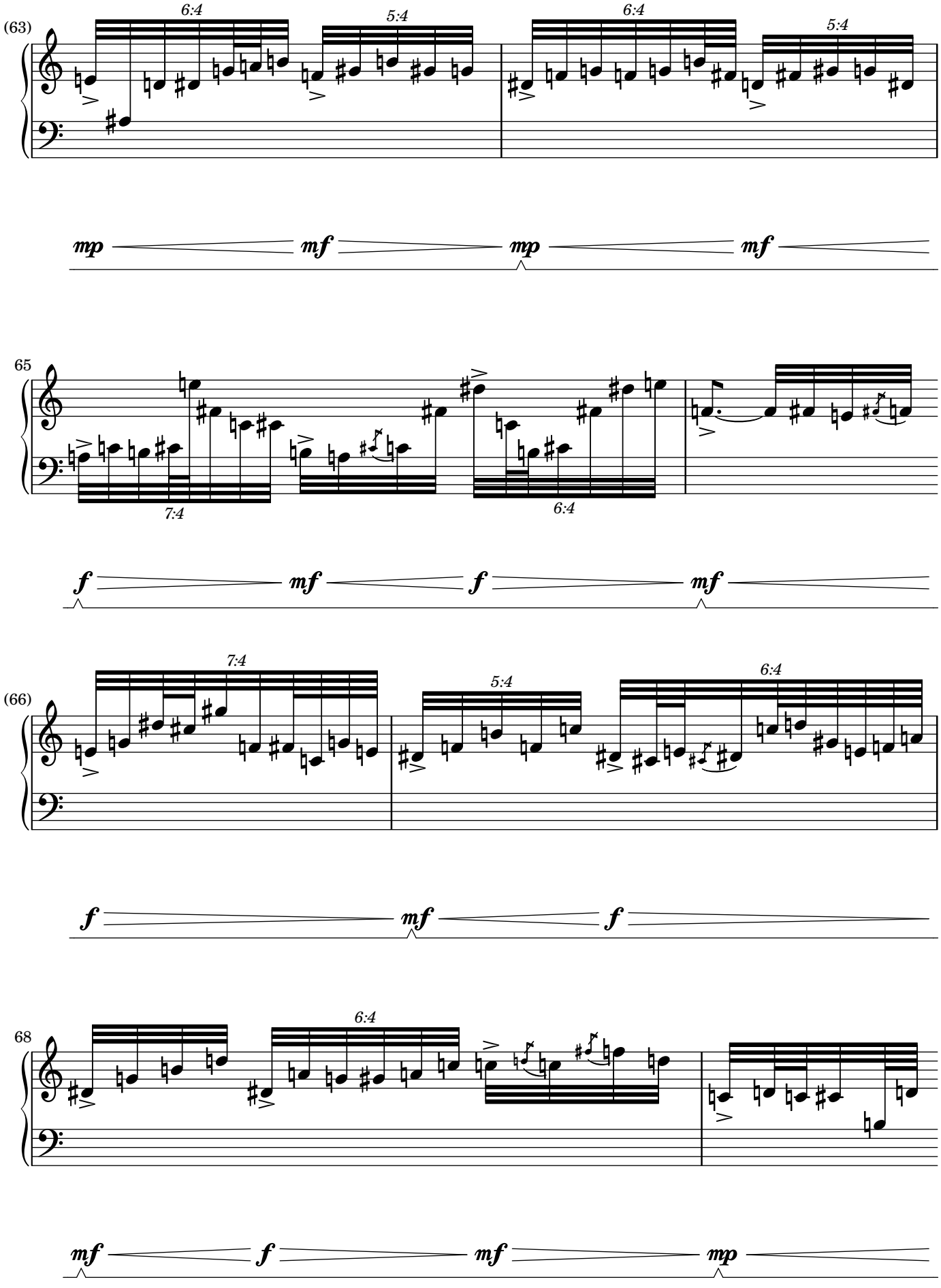
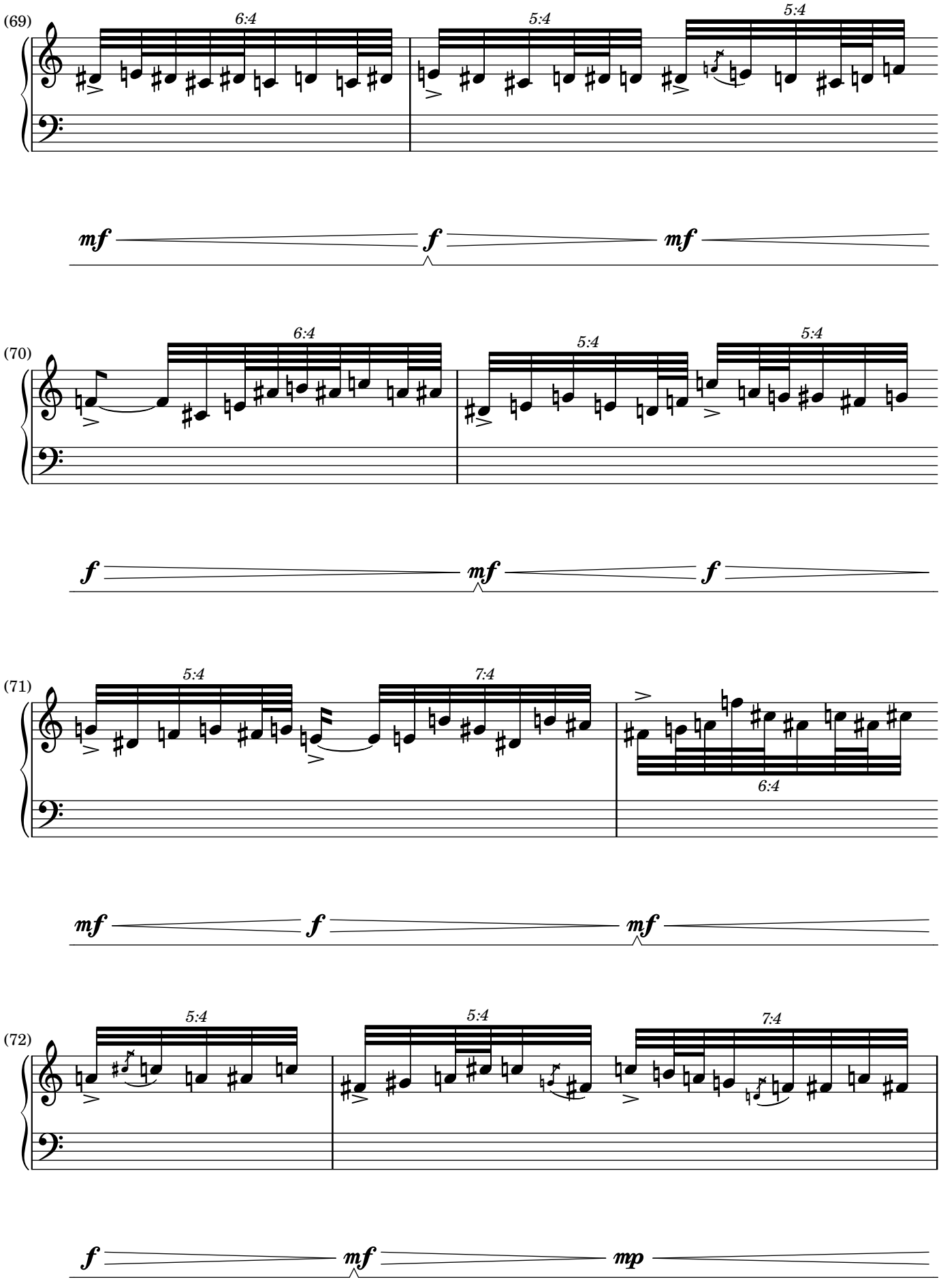
mp
p
pp


(58)
6:4
7:4
p
mp
p
mp
60
5:4
6:4
mf
mp
mf
mp
(61)
5:4
5:4
mf
f
mf
f
(62)
7:4
5:4
mf
f
mf


(63)
6:4
5:4
6:4
5:4
mp
mf
mp
mf
65
7:4
6:4
f
mf
f
mf
(66)
7:4
5:4
6:4
f
mf
f
68
6:4
mf
f
mf
mp


(69)
6:4
5:4
5:4
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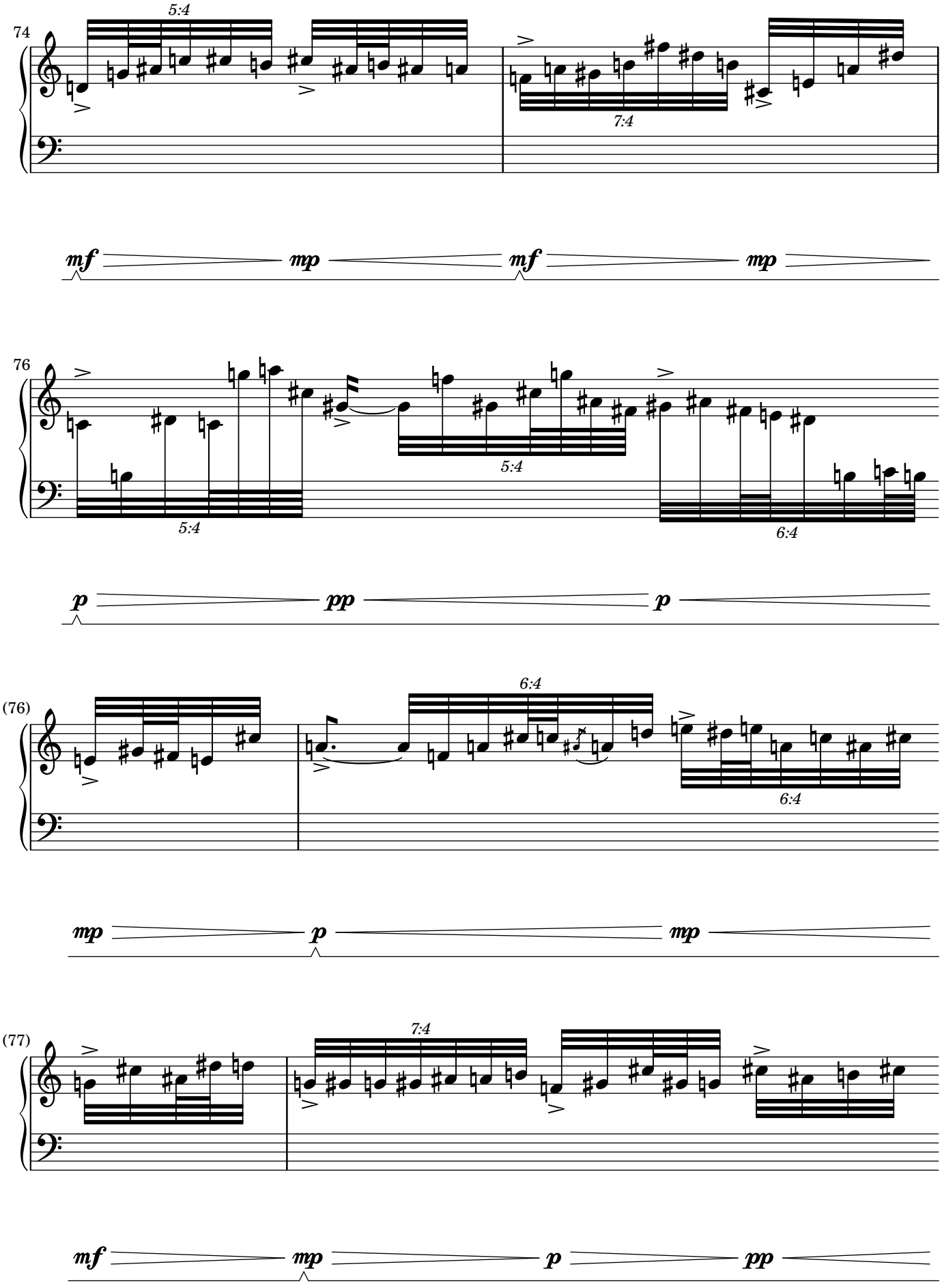
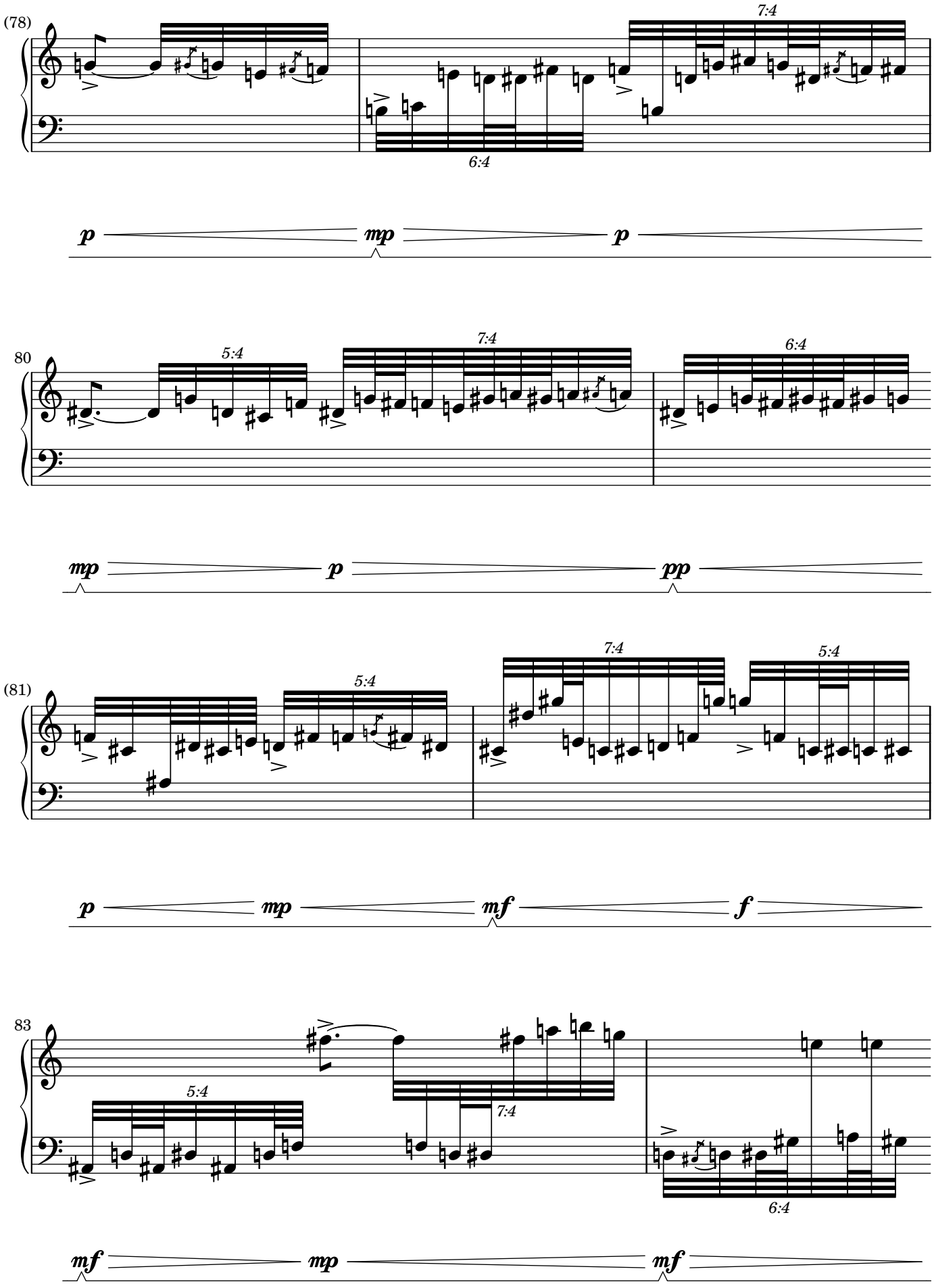
f
mf
(70)
6:4
5:4
5:4
f
mf
f
(71)
5:4
7:4
6:4
mf
f
mf
(72)
5:4
5:4
7:4
f
mf
mp


74
5:4
7:4
mf
mp
mf
mp
76
5:4
5:4
6:4
p
pp
p
(76)
6:4
6:4
mp
p
mp
(77)
7:4
mf
mp
p
pp


(78)
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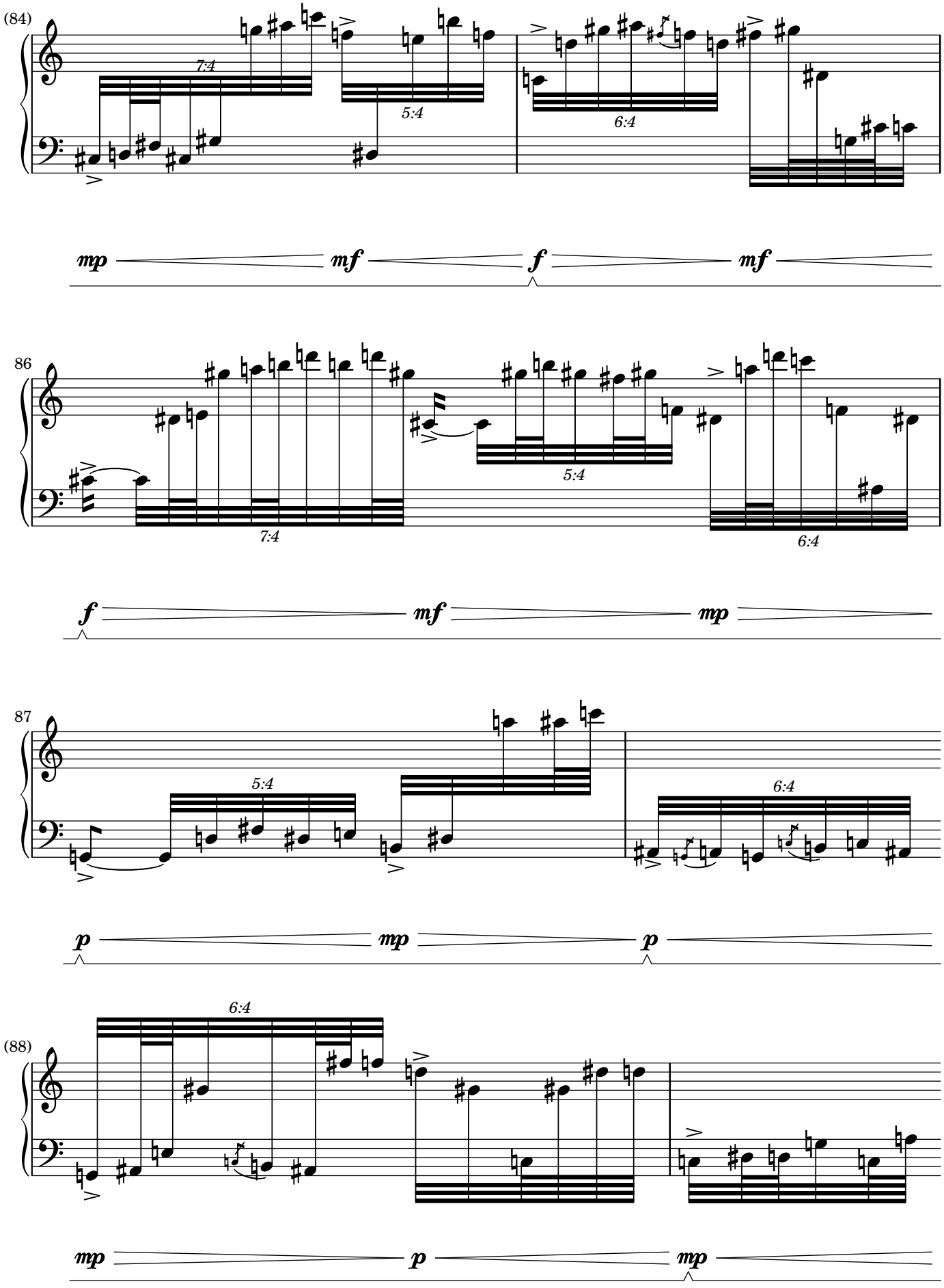
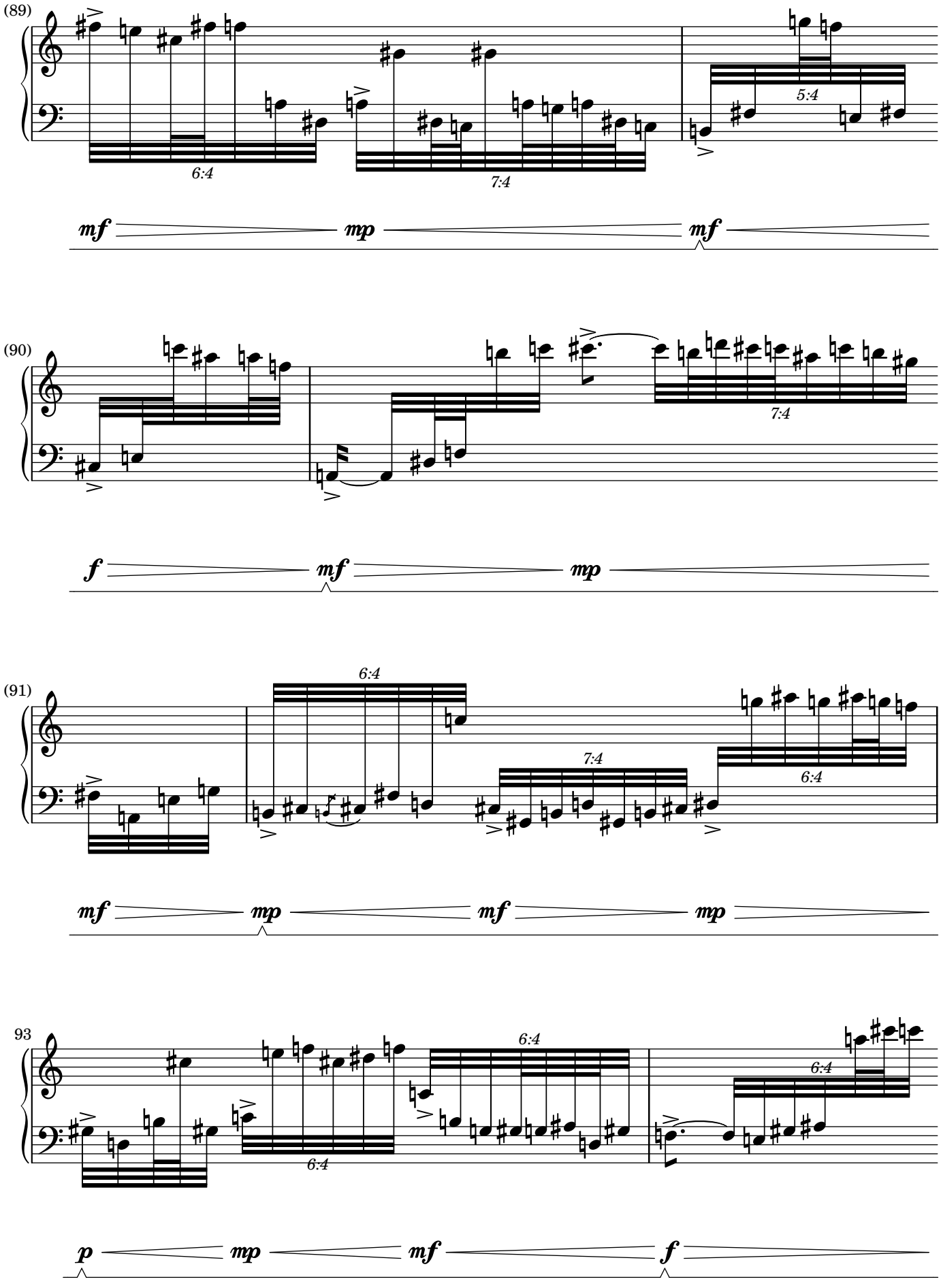
p
mp
p
80
5:4
7:4
6:4
mp
p
pp
(81)
5:4
7:4
5:4
p
mp
mf
f
83
5:4
7:4
6:4
mf
mp
mf


(84)
7:4
5:4
6:4
mp
mf
f
mf
86
7:4
5:4
6:4
f
mf
mp
87
5:4
6:4
p
mp
p
(88)
6:4
mp
p
mp


(89)
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7:4
5:4
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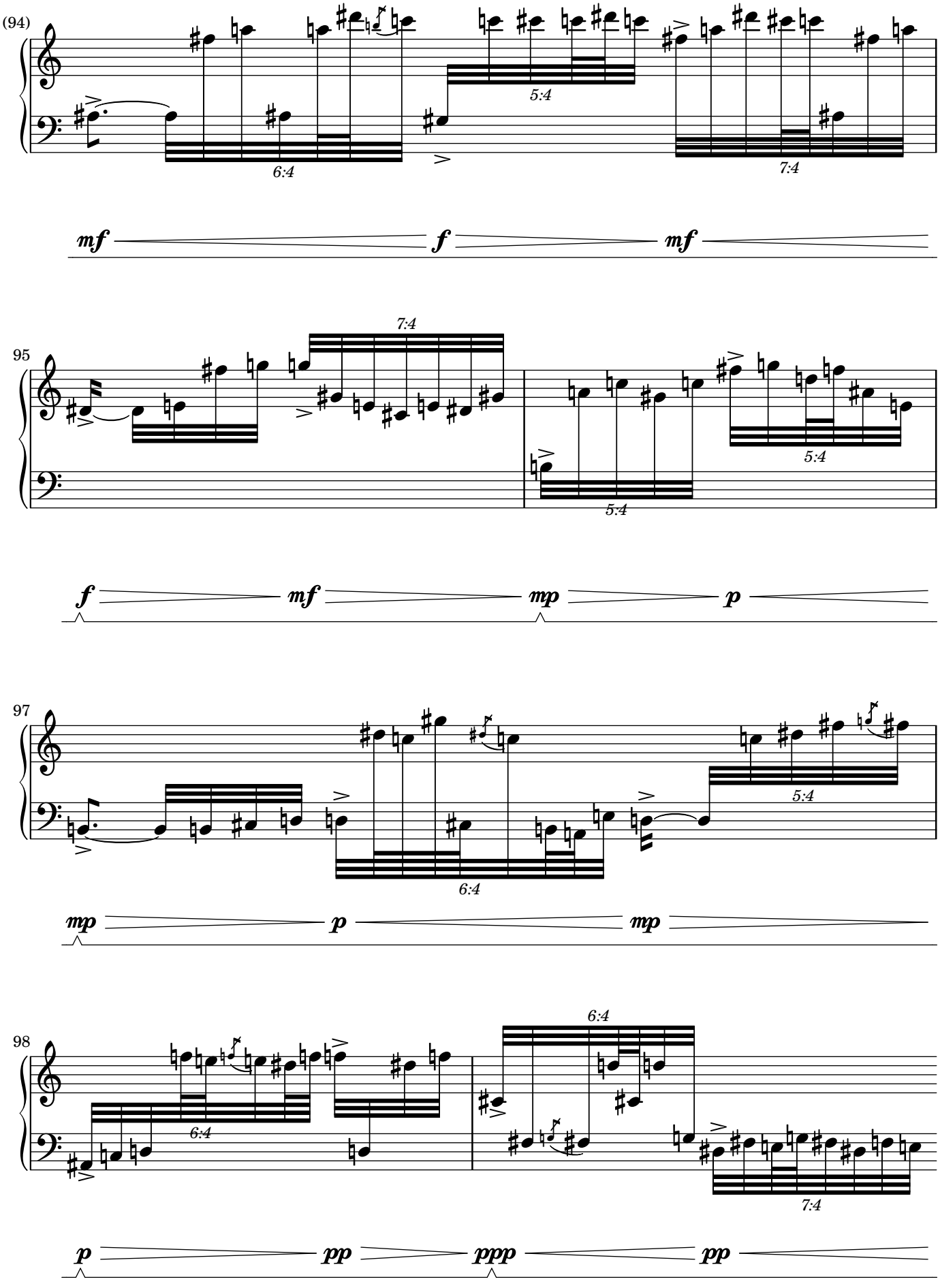
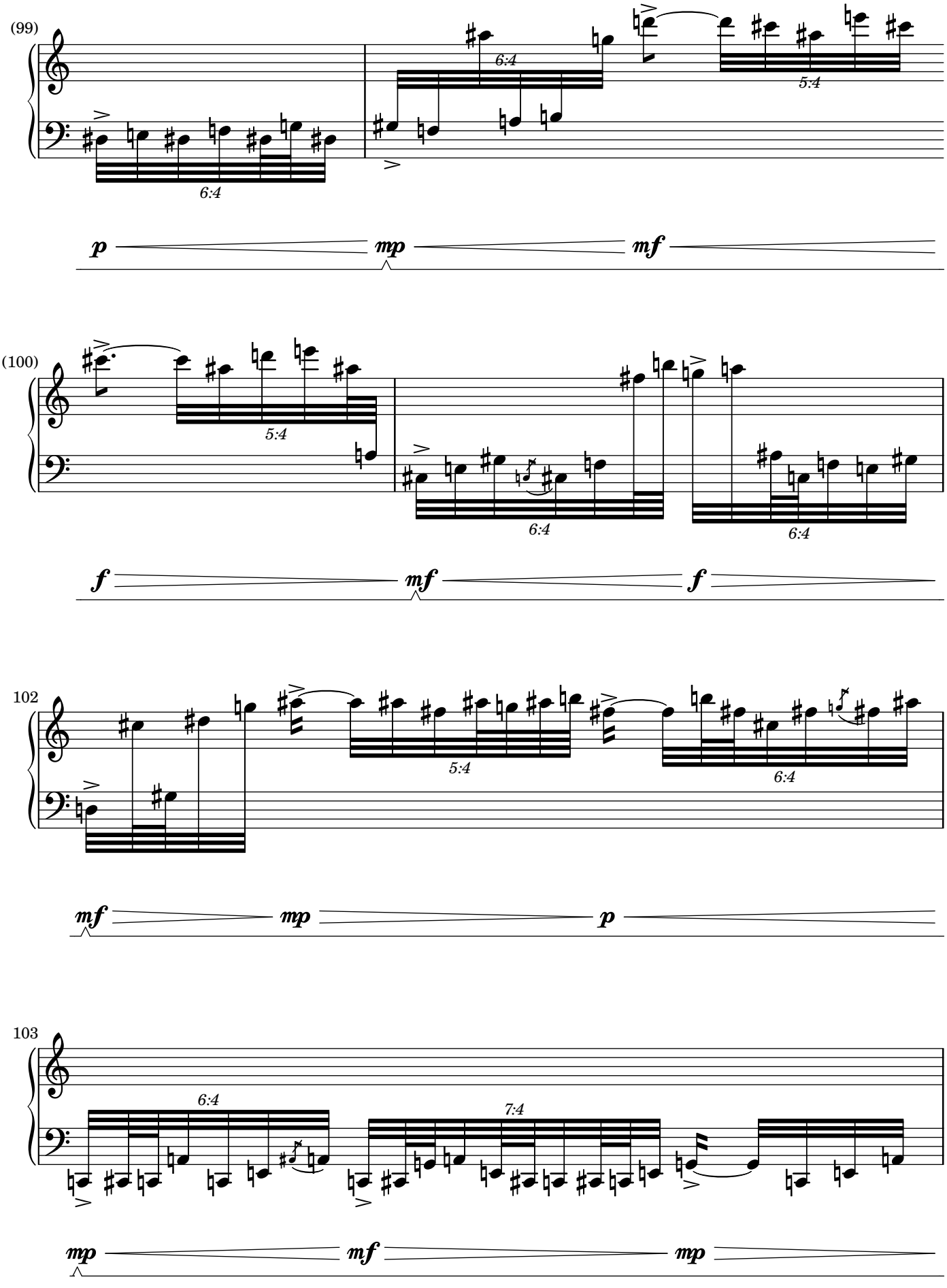
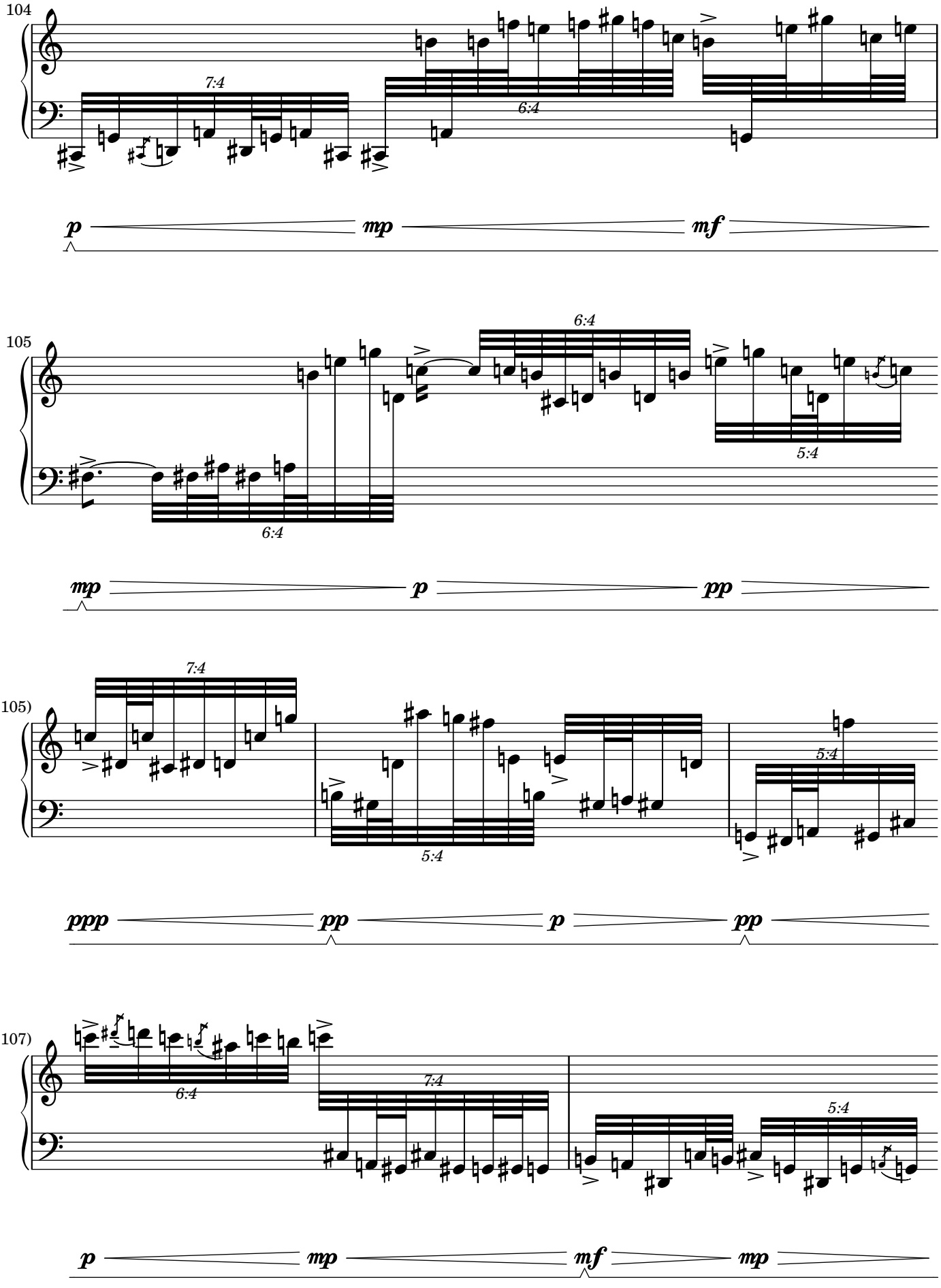
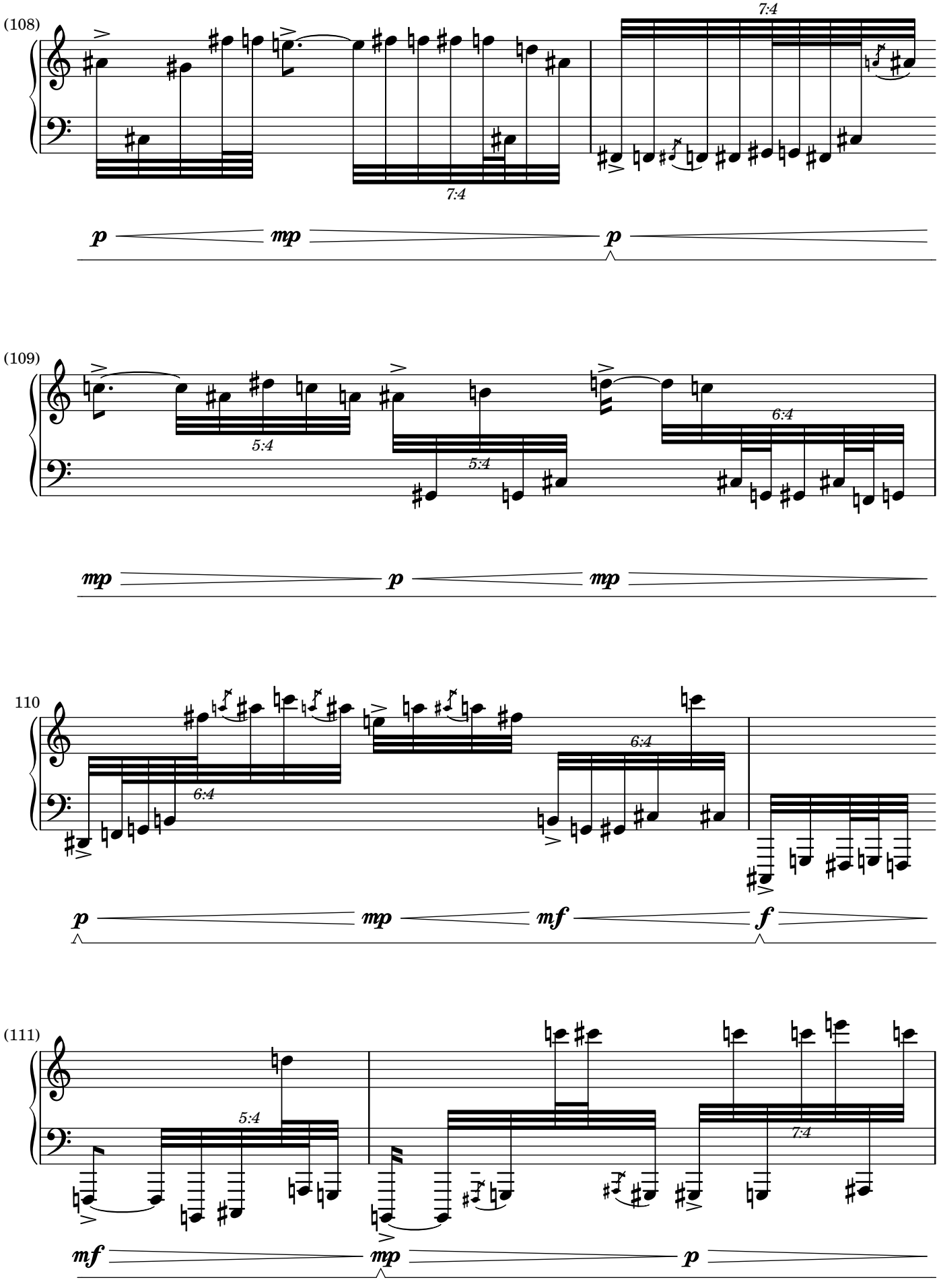
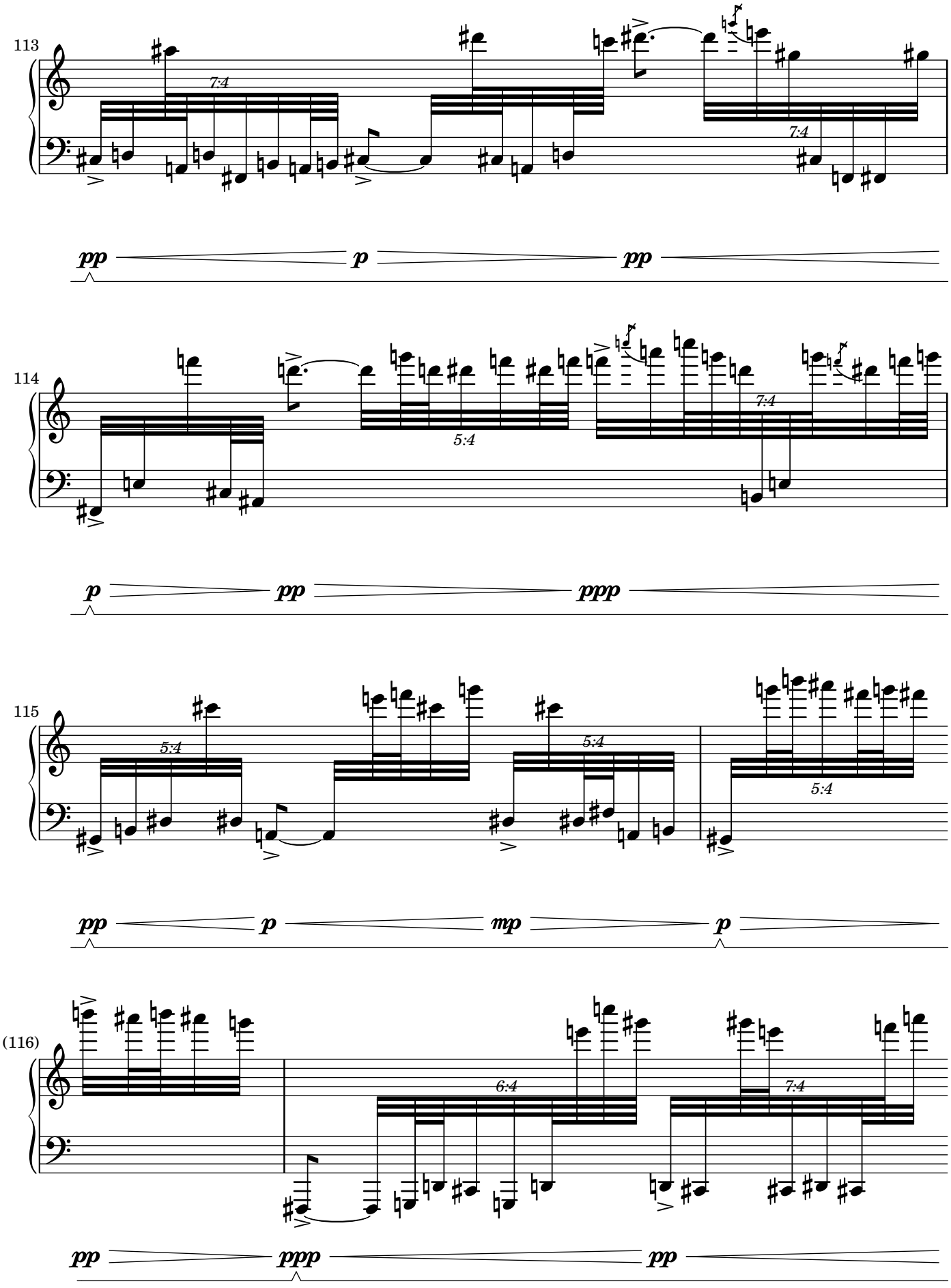
mp
mf
(90)
7:4
f
mf
mp
(91)
6:4
7:4
6:4
mf
mp
mf
mp
93
6:4
6:4
6:4
p
mp
mf
f

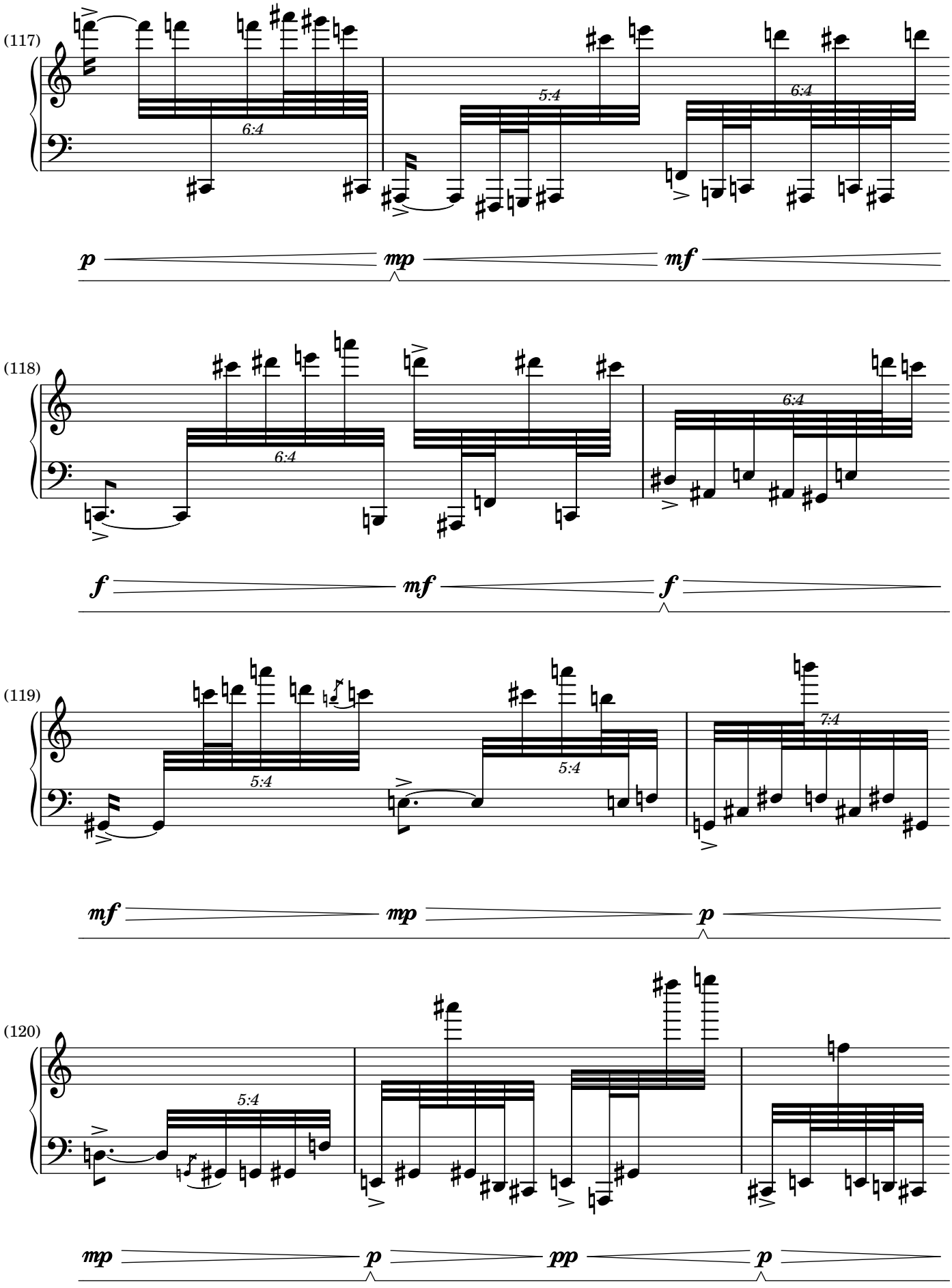

(94)
6:4
5:4
7:4
mf
f
mf
95
7:4
5:4
5:4
f
mf
mp
p
97
6:4
5:4
mp
p
mp
98
6:4
6:4
7:4
p
pp
ppp
pp

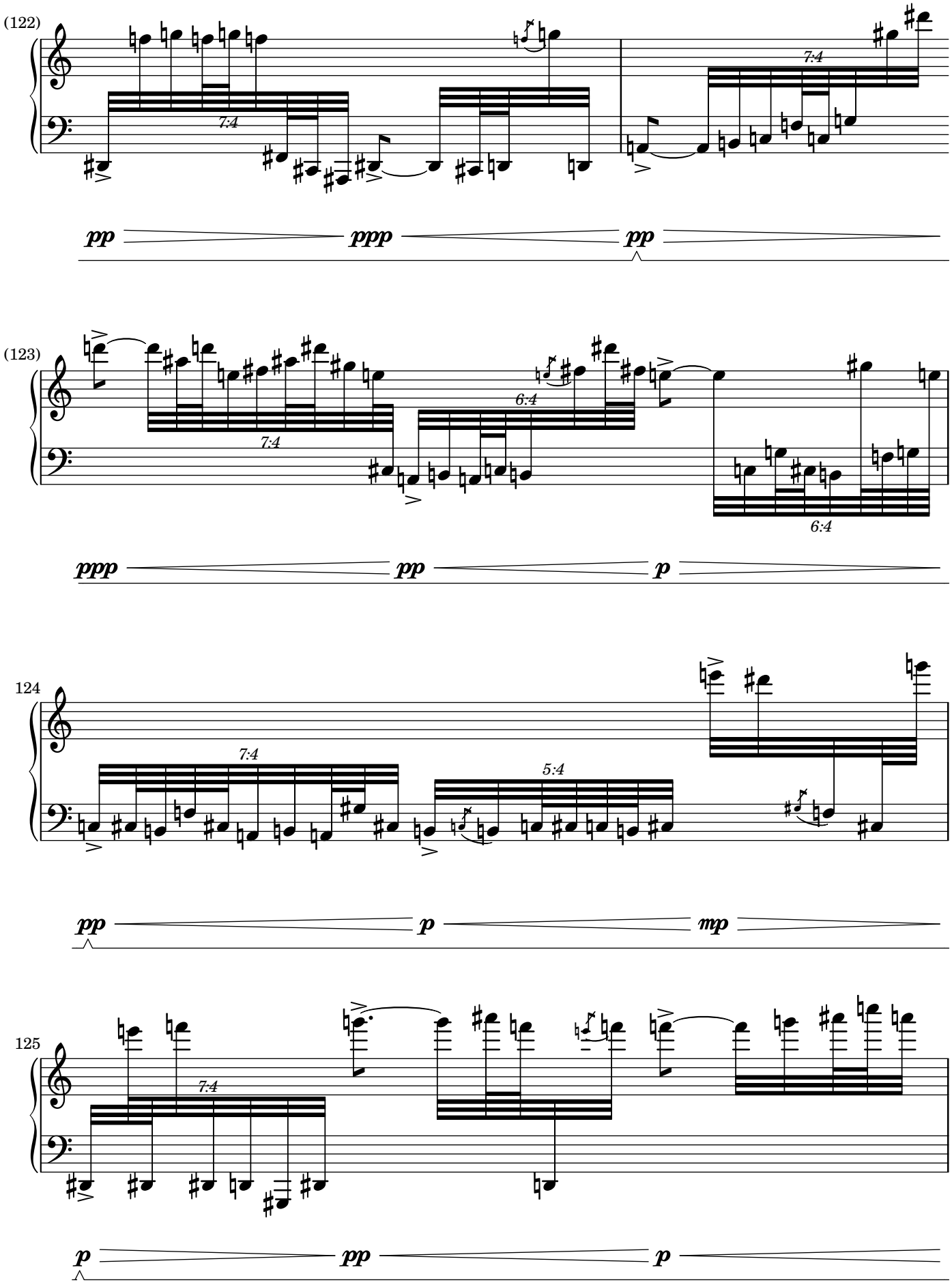

(99)
6:4
6:4
5:4
p
mp
mf
(100)
5:4
6:4
6:4
f
mf
f
102
5:4
6:4
mf
mp
p
103
6:4
7:4
mp
mf
mp


104
7:4
6:4
p
mp
mf
105
6:4
6:4
5:4
mp
p
pp
(105)
7:4
5:4
5:4
ppp
pp
p
pp
(107)
6:4
7:4
5:4
p
mp
mf
mp


(108)
7:4
7:4
p
mp
p
(109)
5:4
5:4
6:4
mp
p
mp
110
6:4
6:4
p
mp
mf
f
(111)
5:4
7:4
mf
mp
p


113
7:4
7:4
pp
p
pp
114
5:4
7:4
p
pp
ppp
115
5:4
5:4
5:4
pp
p
mp
p
(116)
6:4
7:4
pp
ppp
pp


(117)
6:4
5:4
6:4
p
mp
mf
(118)
6:4
6:4
f
mf
f
(119)
5:4
5:4
7:4
mf
mp
p
(120)
5:4
mp
p
pp
p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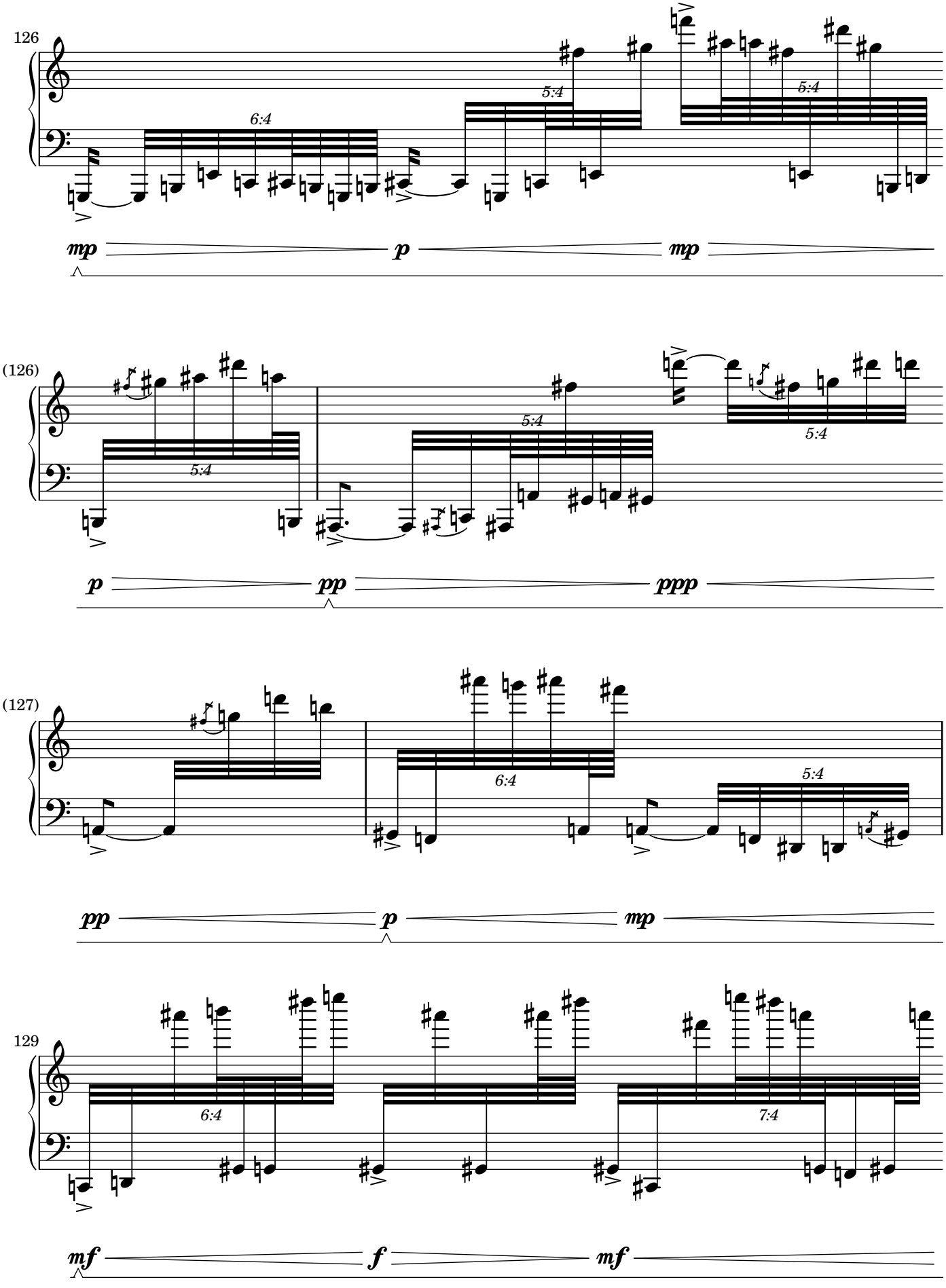
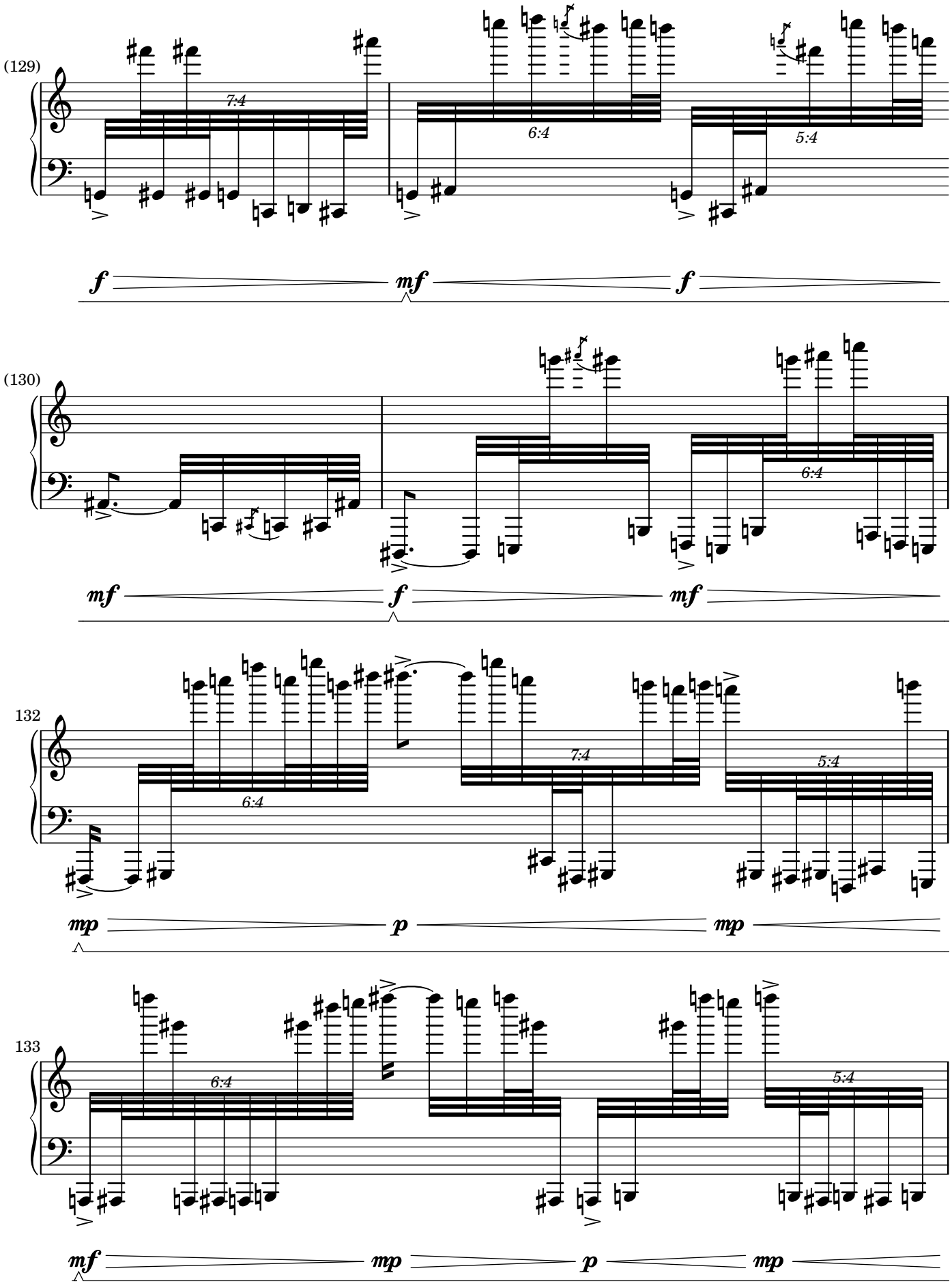
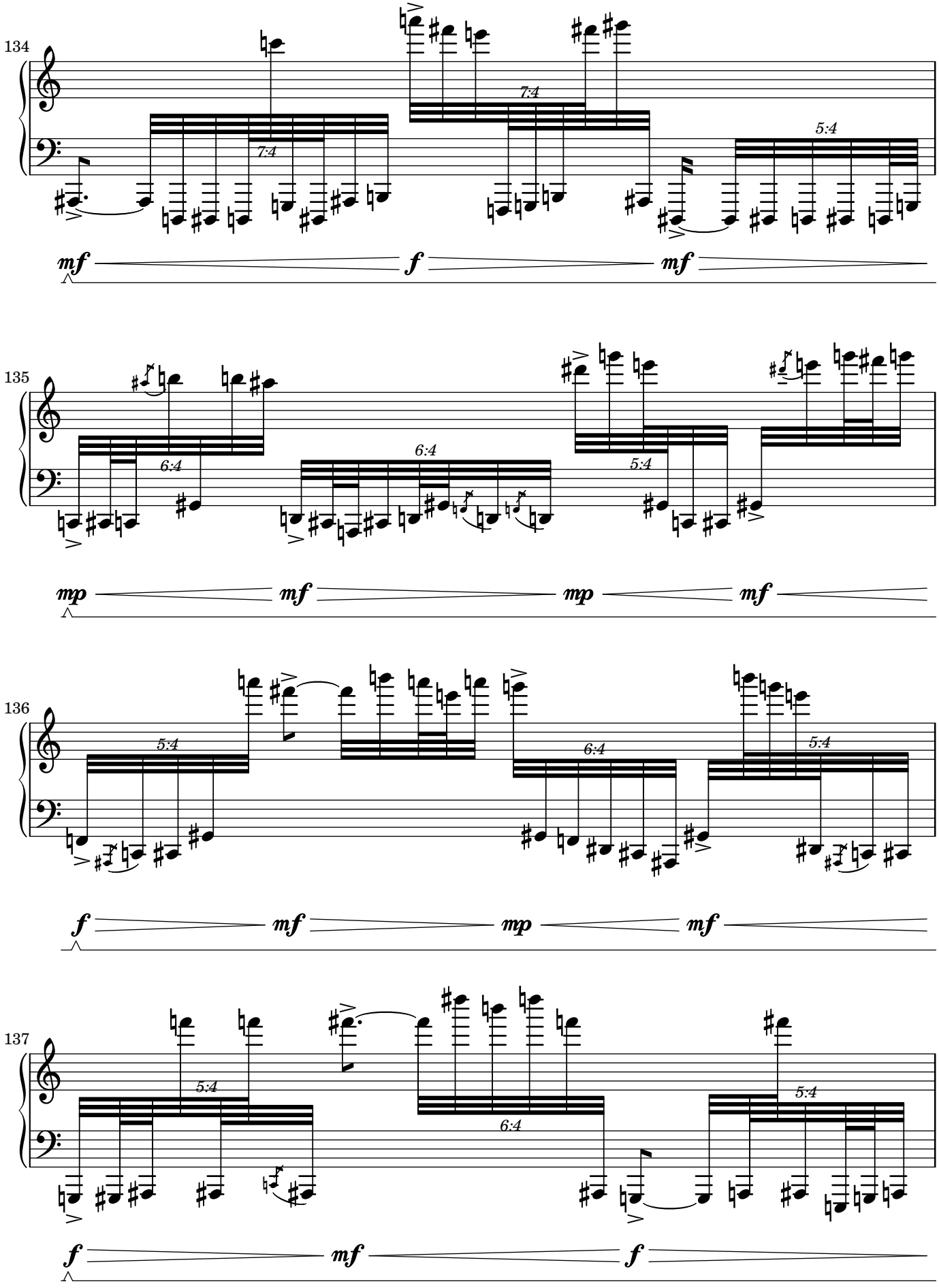
7:4
7:4
pp
ppp
pp
(123)
7:4
6:4
6:4
ppp
pp
p
124
7:4
5:4
pp
p
mp
125
7:4
p
pp
p


126
6:4
5:4
5:4
mp
p
mp
(126)
5:4
5:4
5:4
p
pp
ppp
(127)
6:4
5:4
pp
p
mp
129
6:4
7:4
mf
f
mf


(129)
7:4
6:4
5:4
f
mf
f
(130)
6:4
mf
f
mf
132
6:4
7:4
5:4
mp
p
mp
133
6:4
5:4
mf
mp
p
mp


134
7:4
7:4
5:4
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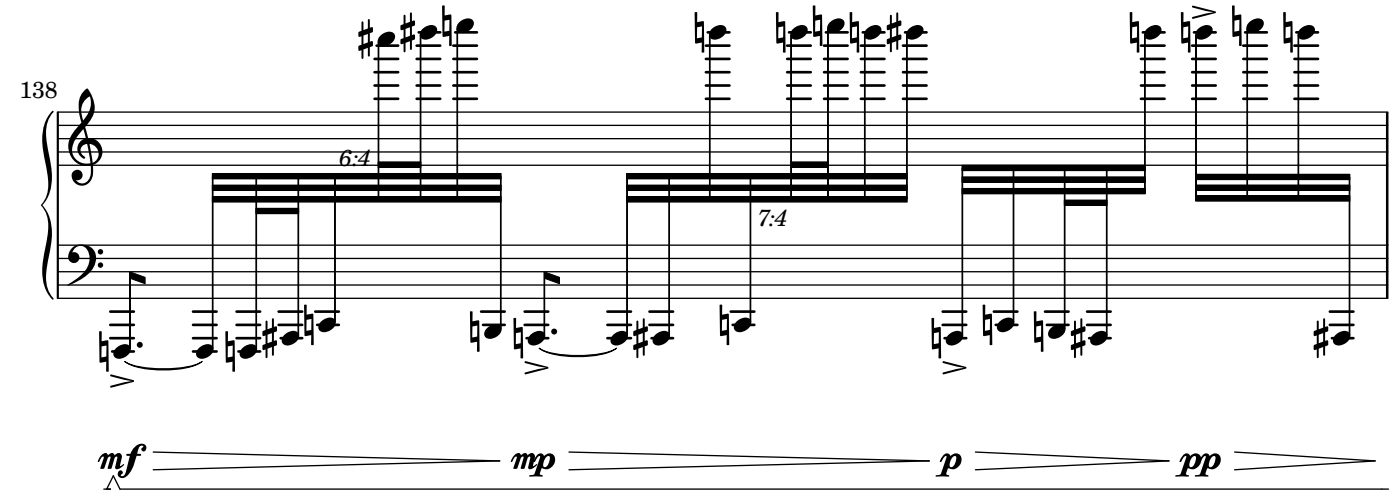
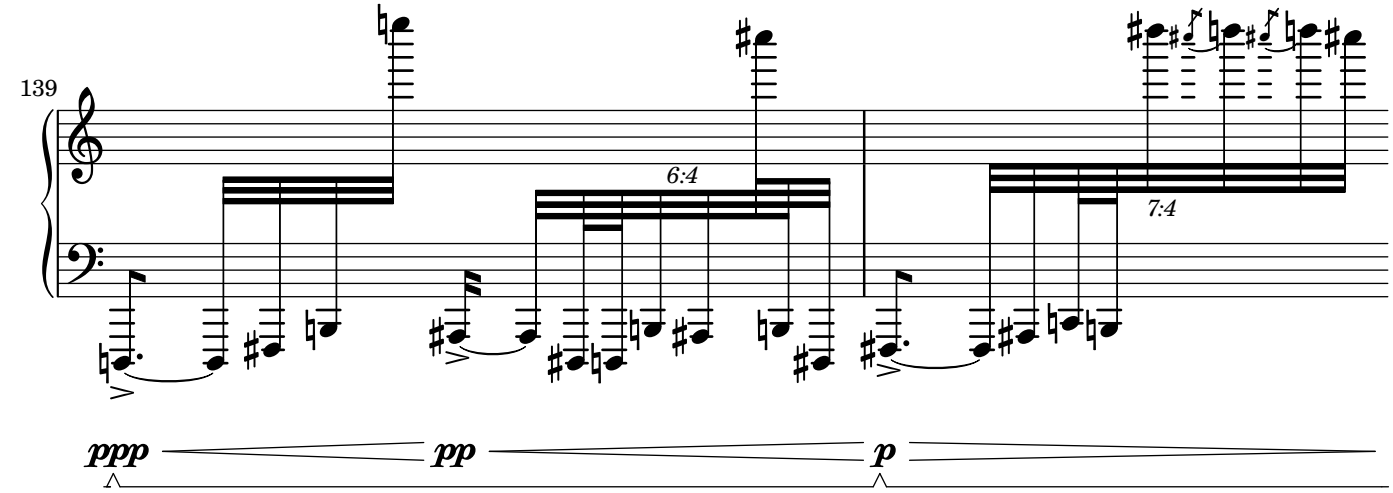
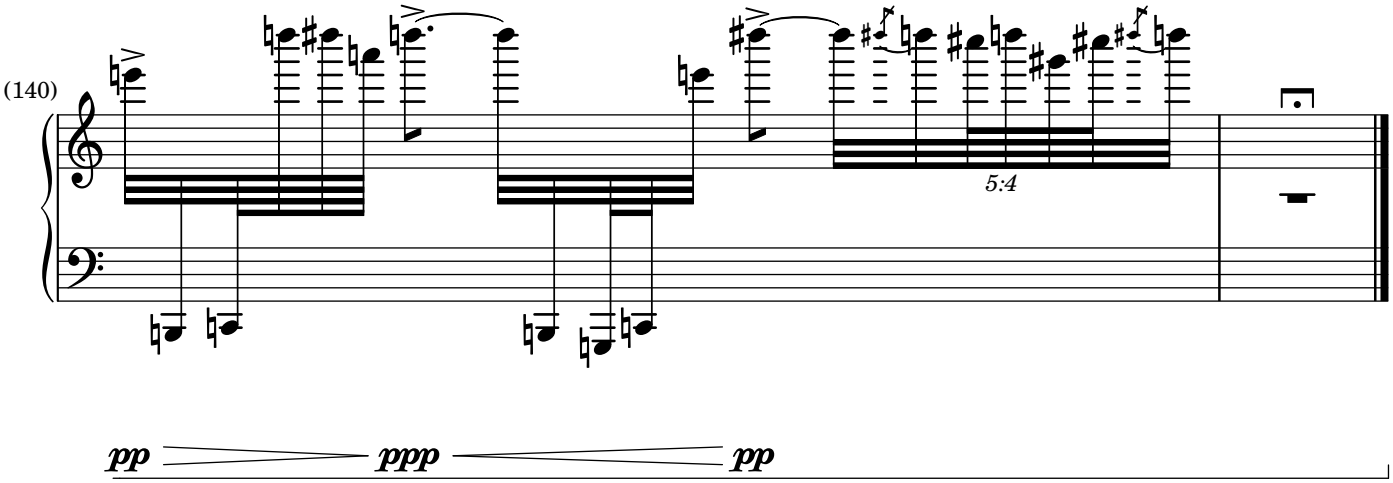
f
mf
135
6:4
6:4
5:4
mp
mf
mp
mf
136
5:4
6:4
5:4
f
mf
mp
mf
137
5:4
6:4
5:4
f
mf
f


138
6:4
7:4
mf
mp
p
pp


139
6:4
7:4
ppp
pp
p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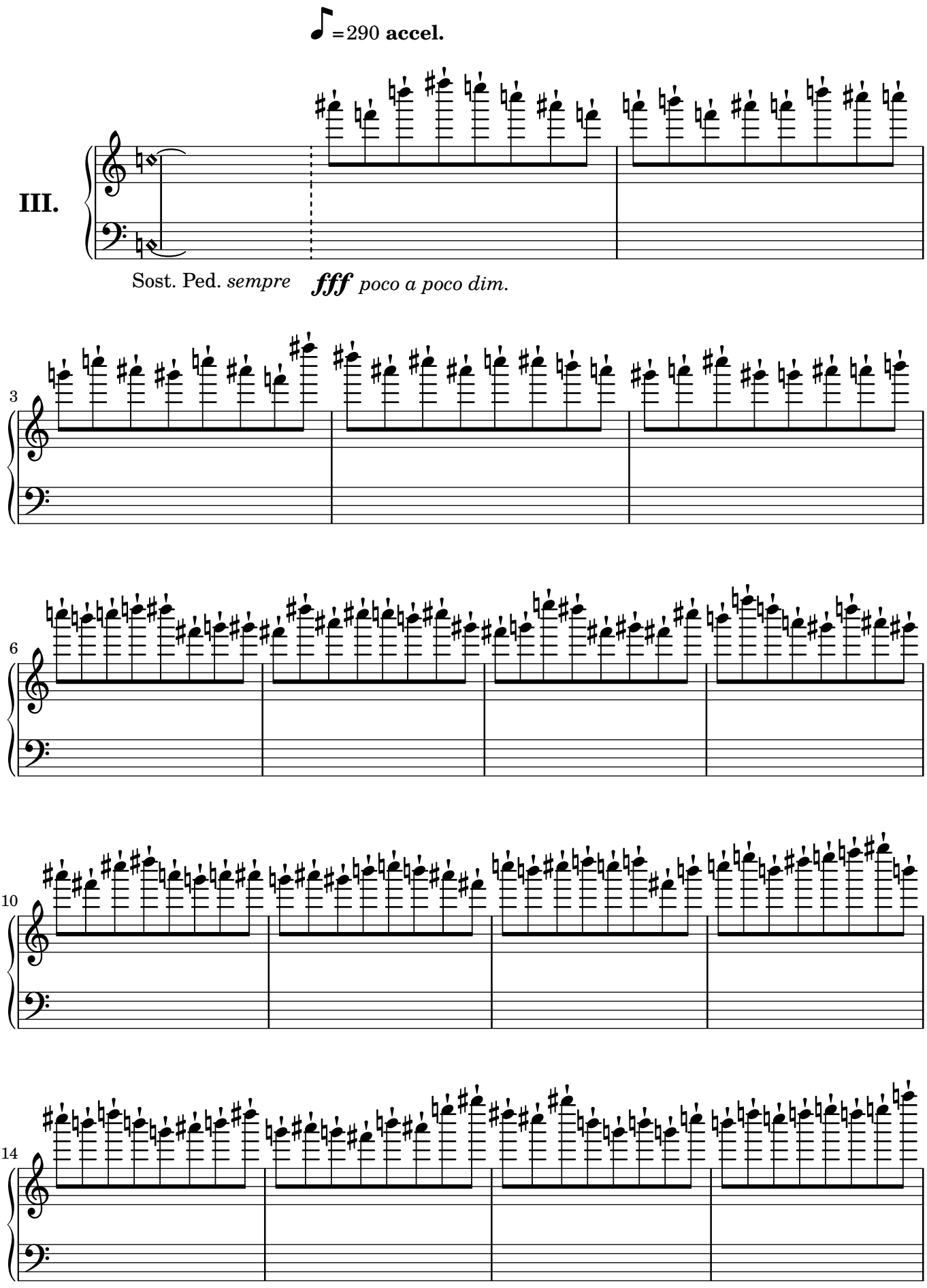
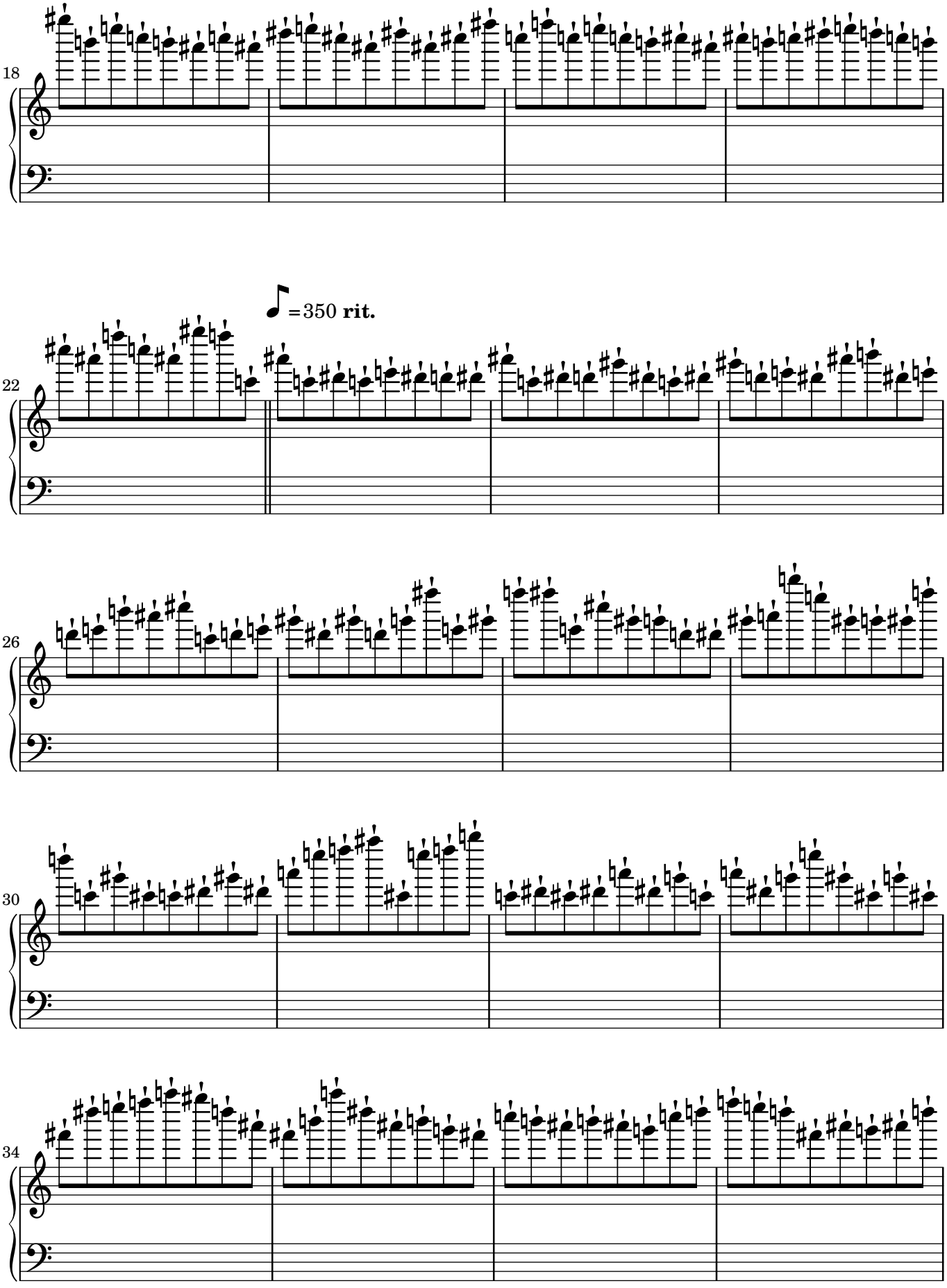
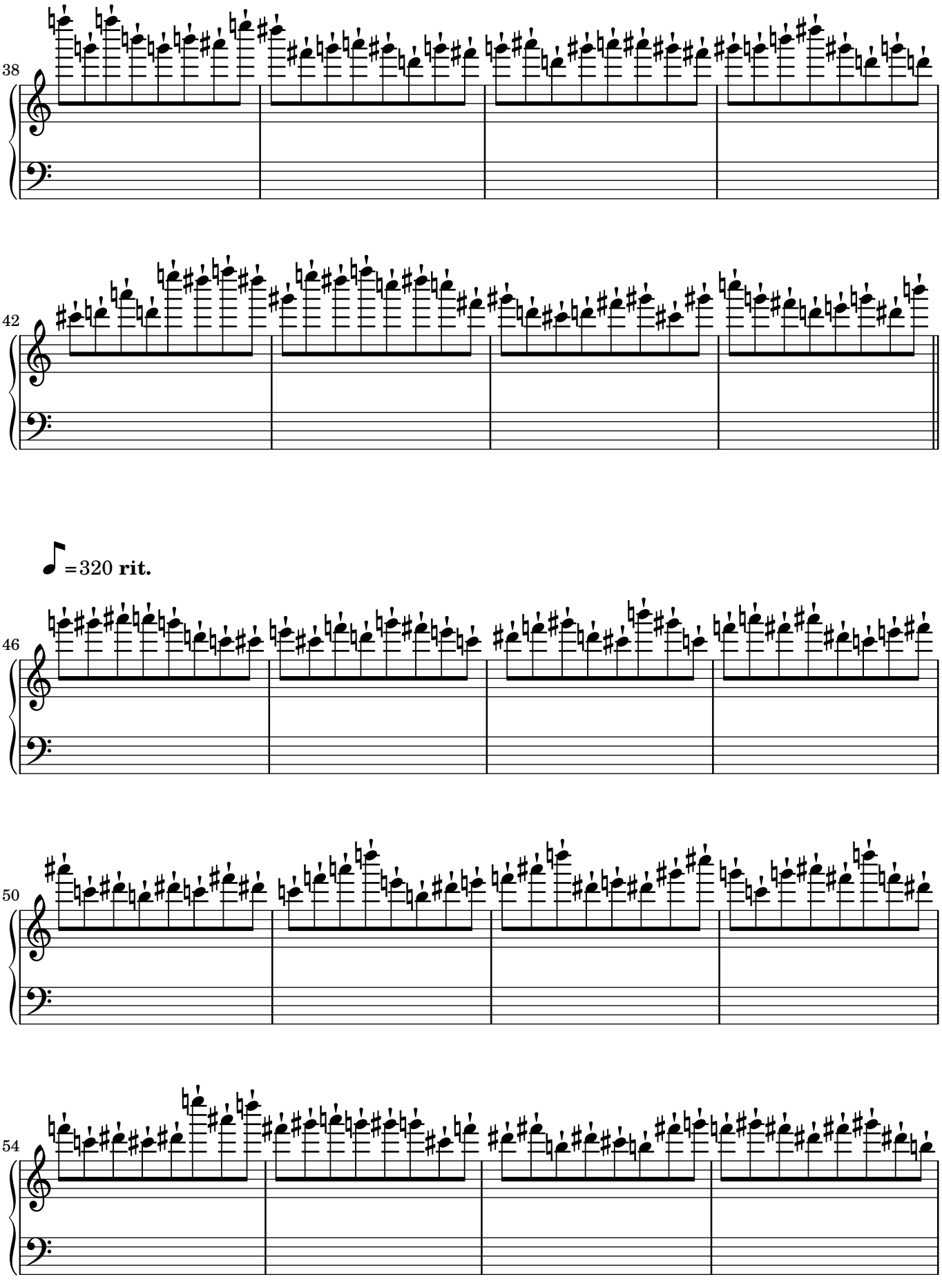
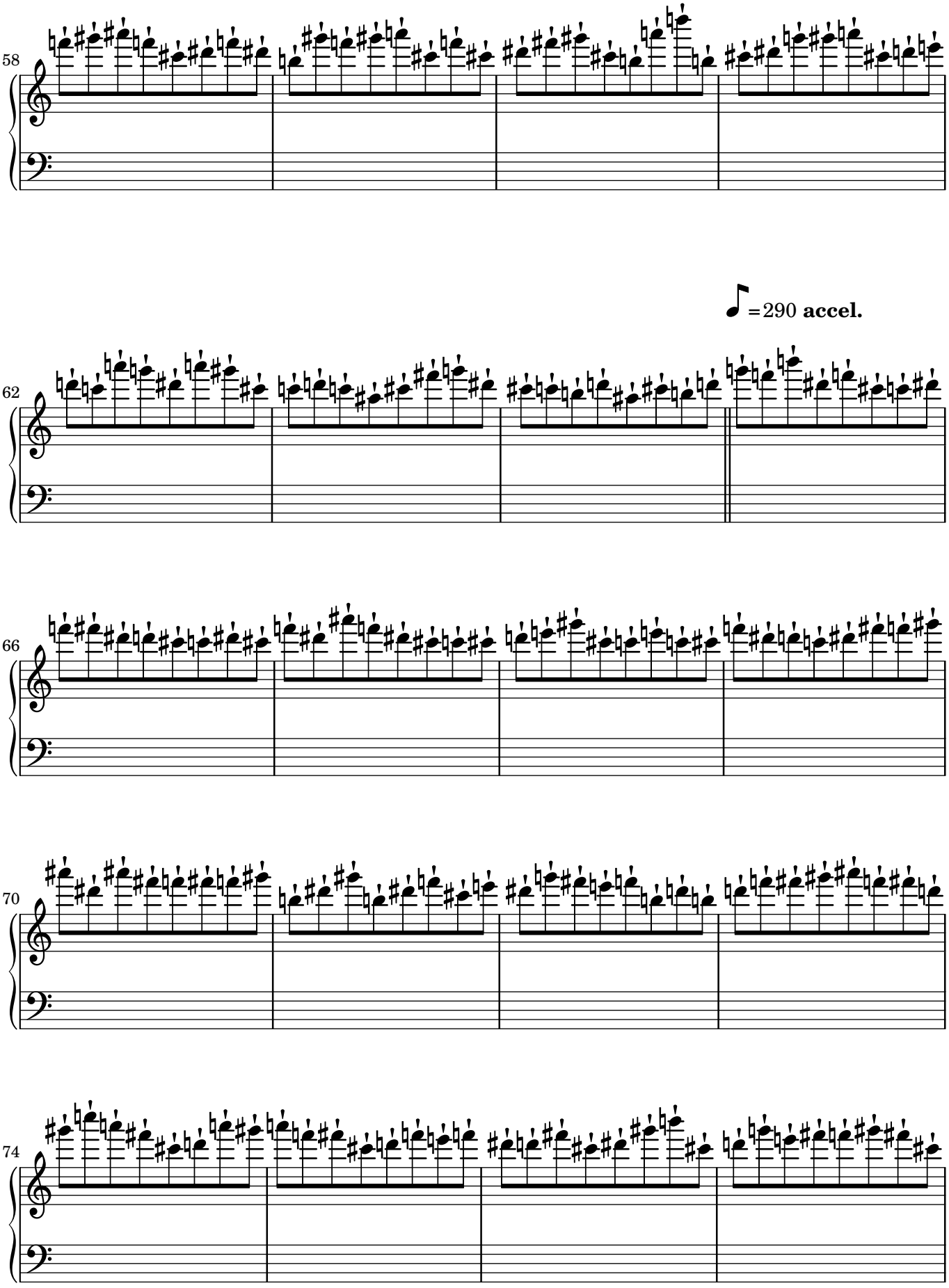
pp
ppp
pp

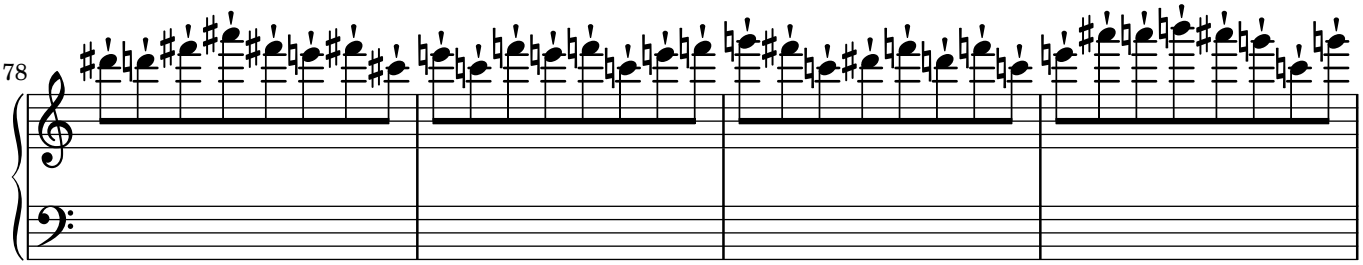

♩=290 accel.
III.
Sost. Ped. sempre
fff poco a poco dim.
3
6
10
14


18
22
♩=350 rit.
26
30
34

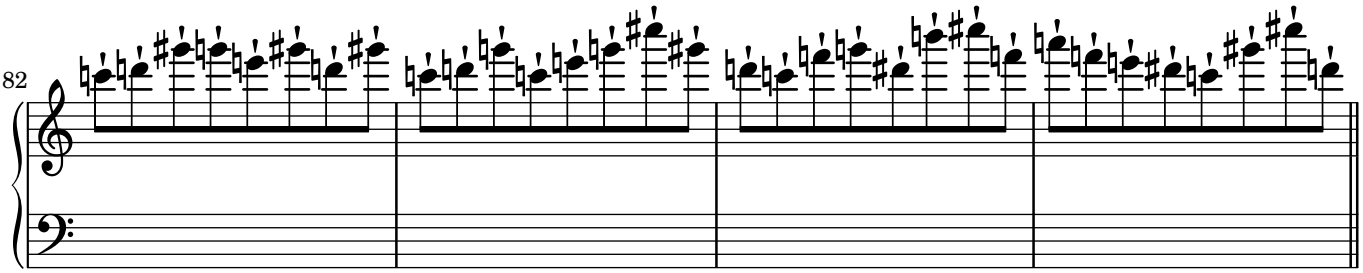

38
42
♩=320 rit.
46
50
54


58
62
♩=290 accel.
66
70
74

78

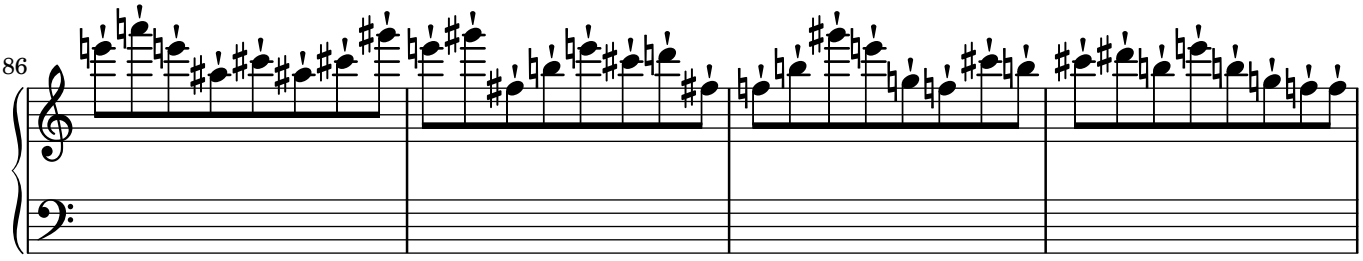


82

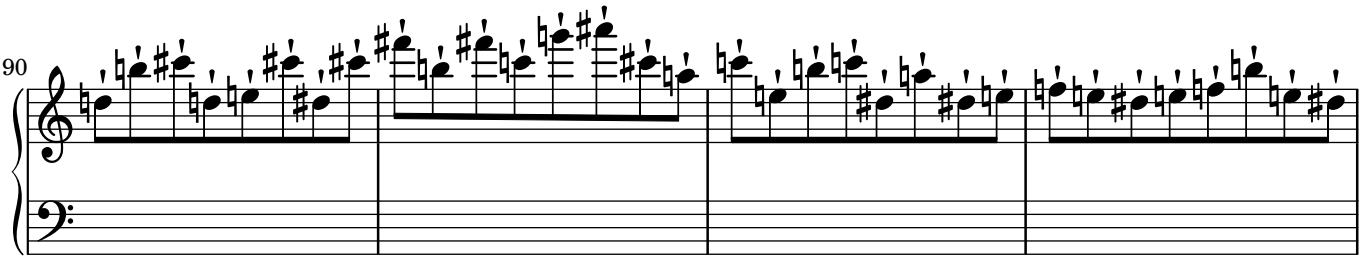


♩=320 **accel.**

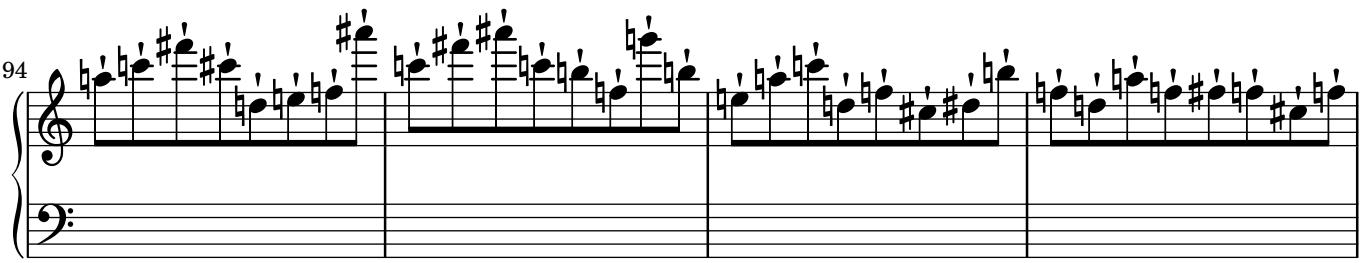
86

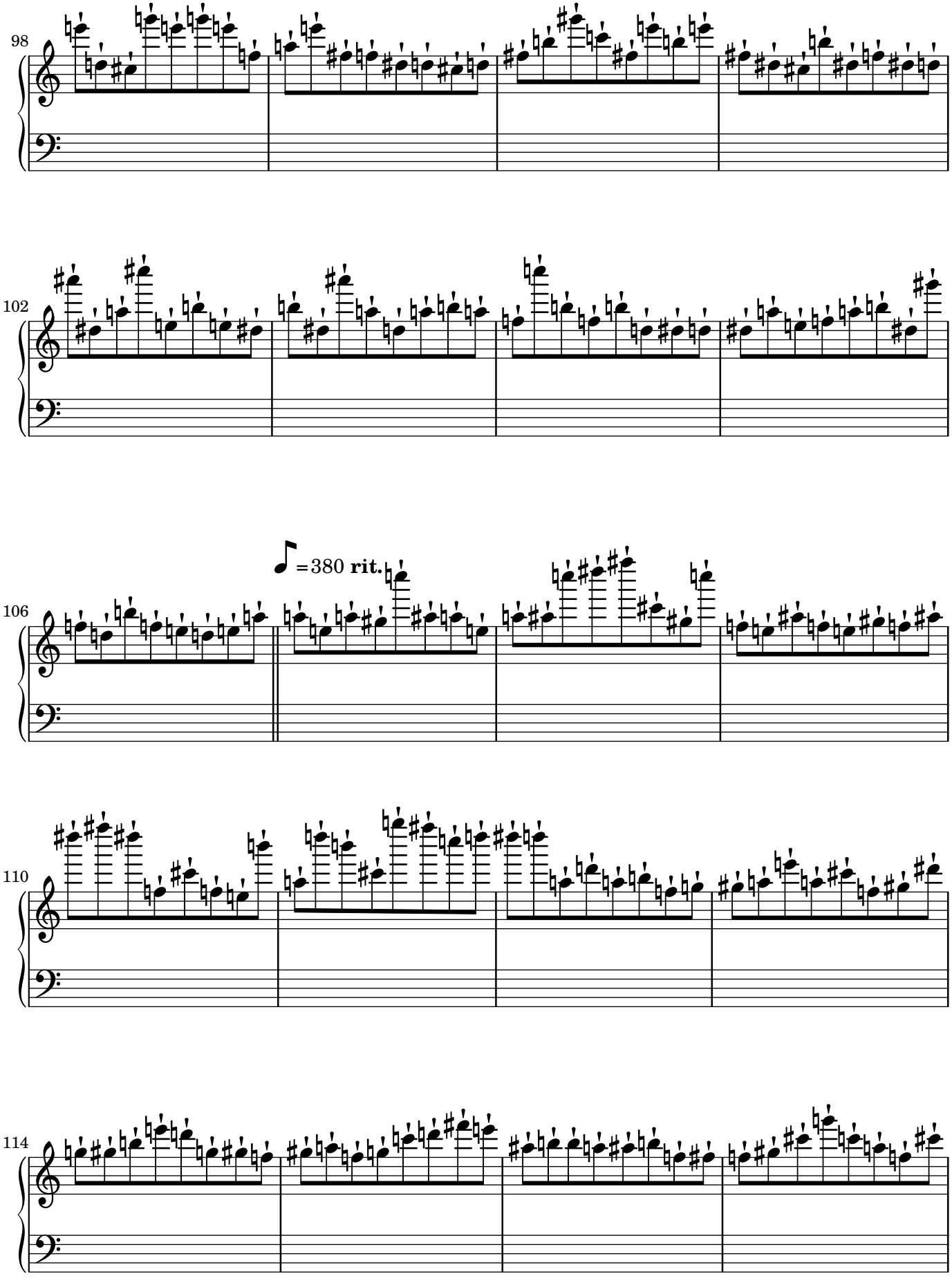


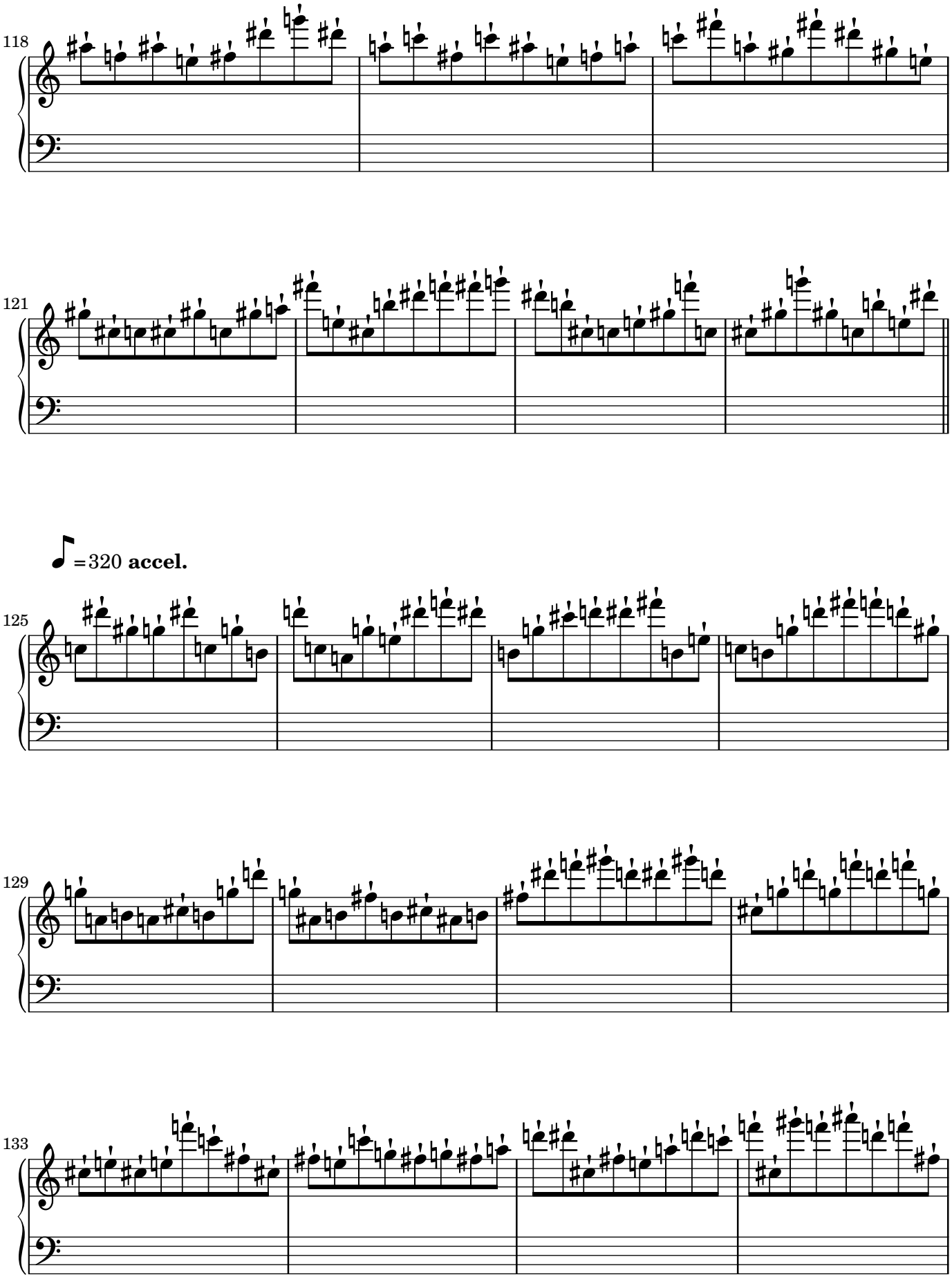
90

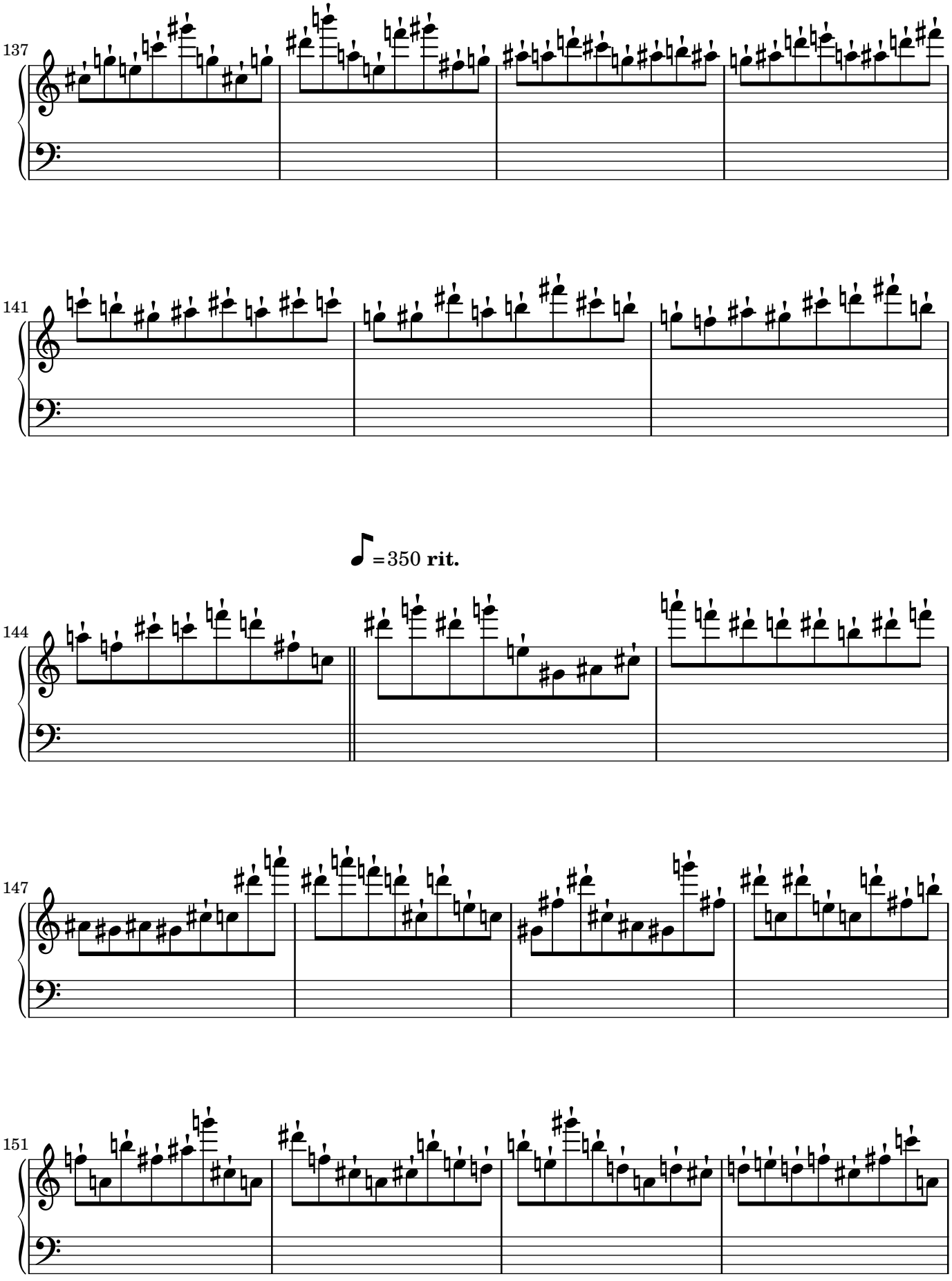


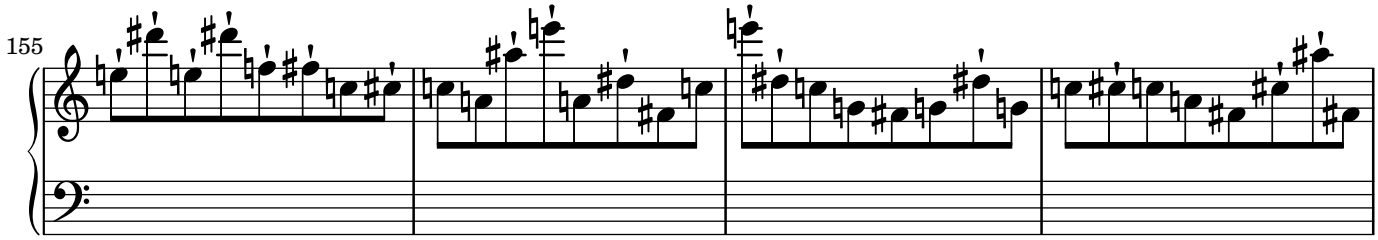
94

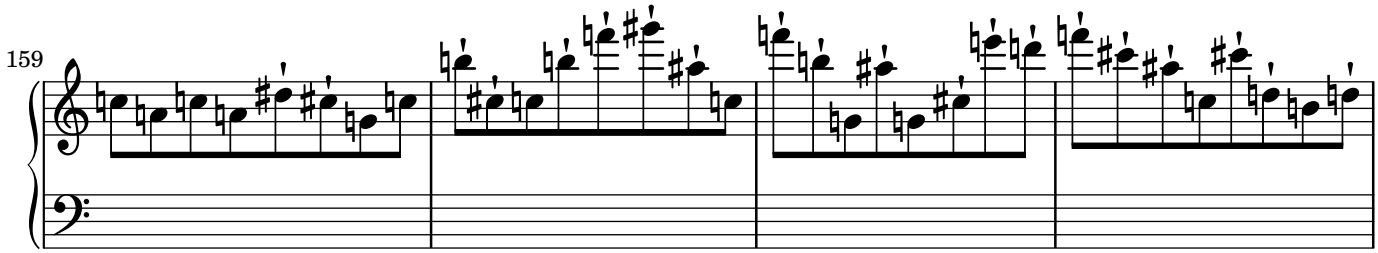


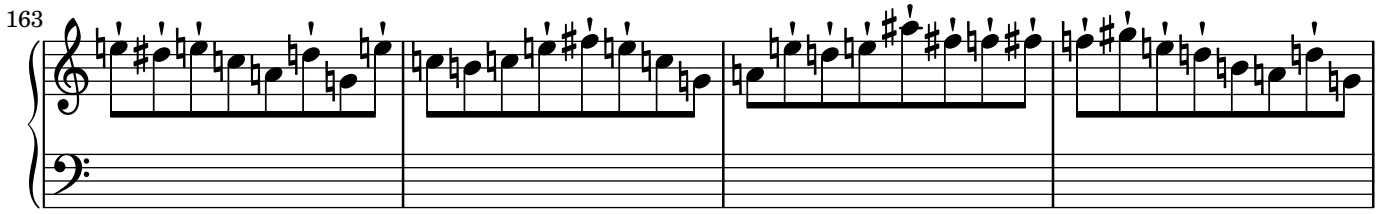

98
102
106
♩=380 rit.
110
114

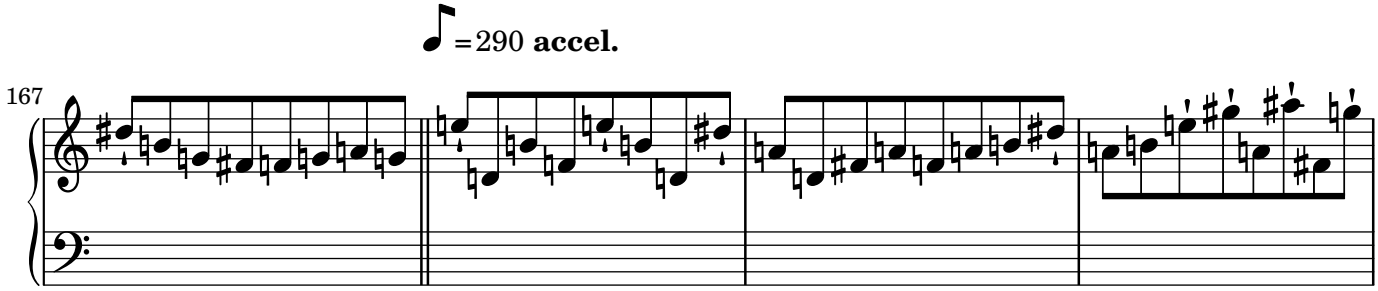

118
121
♩=320 accel.
125
129
133

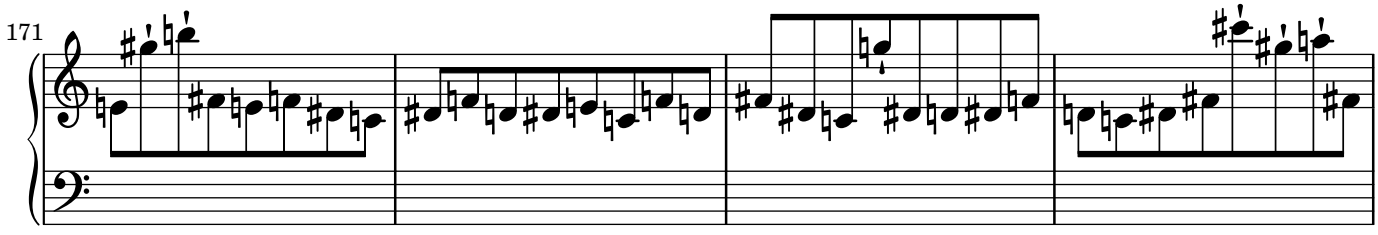

137
141
144
♩=350 rit.
147
151

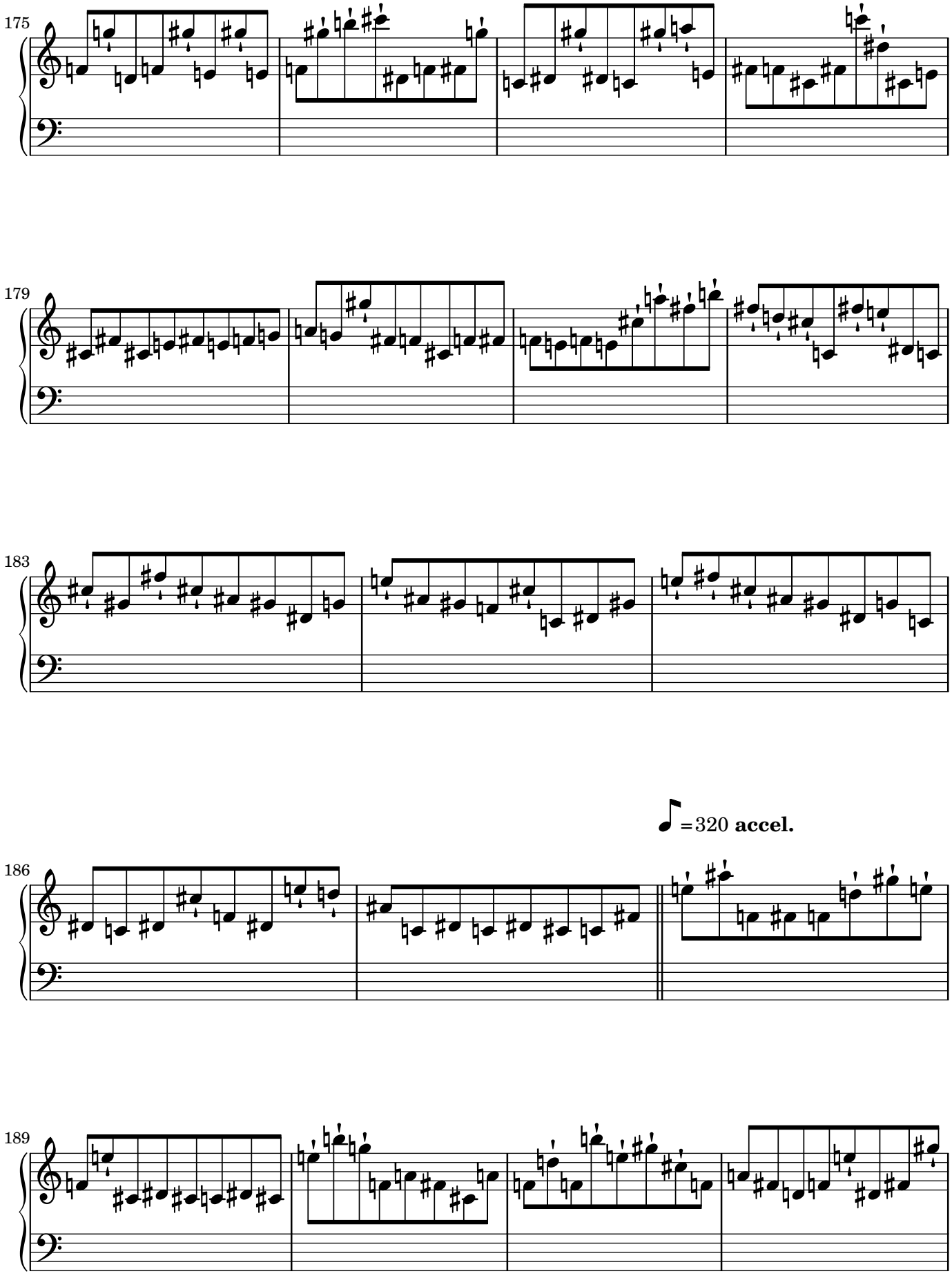

155

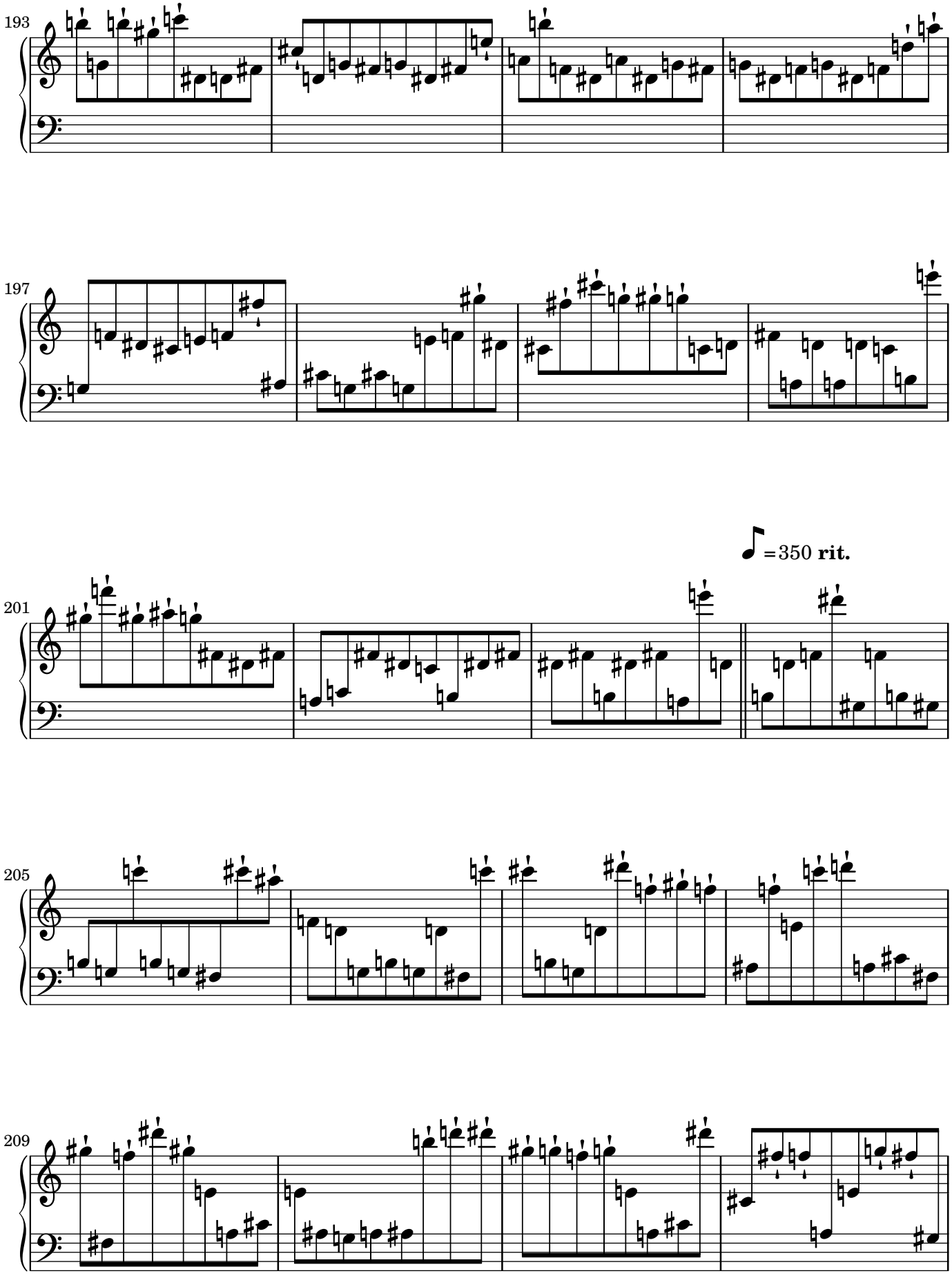

159

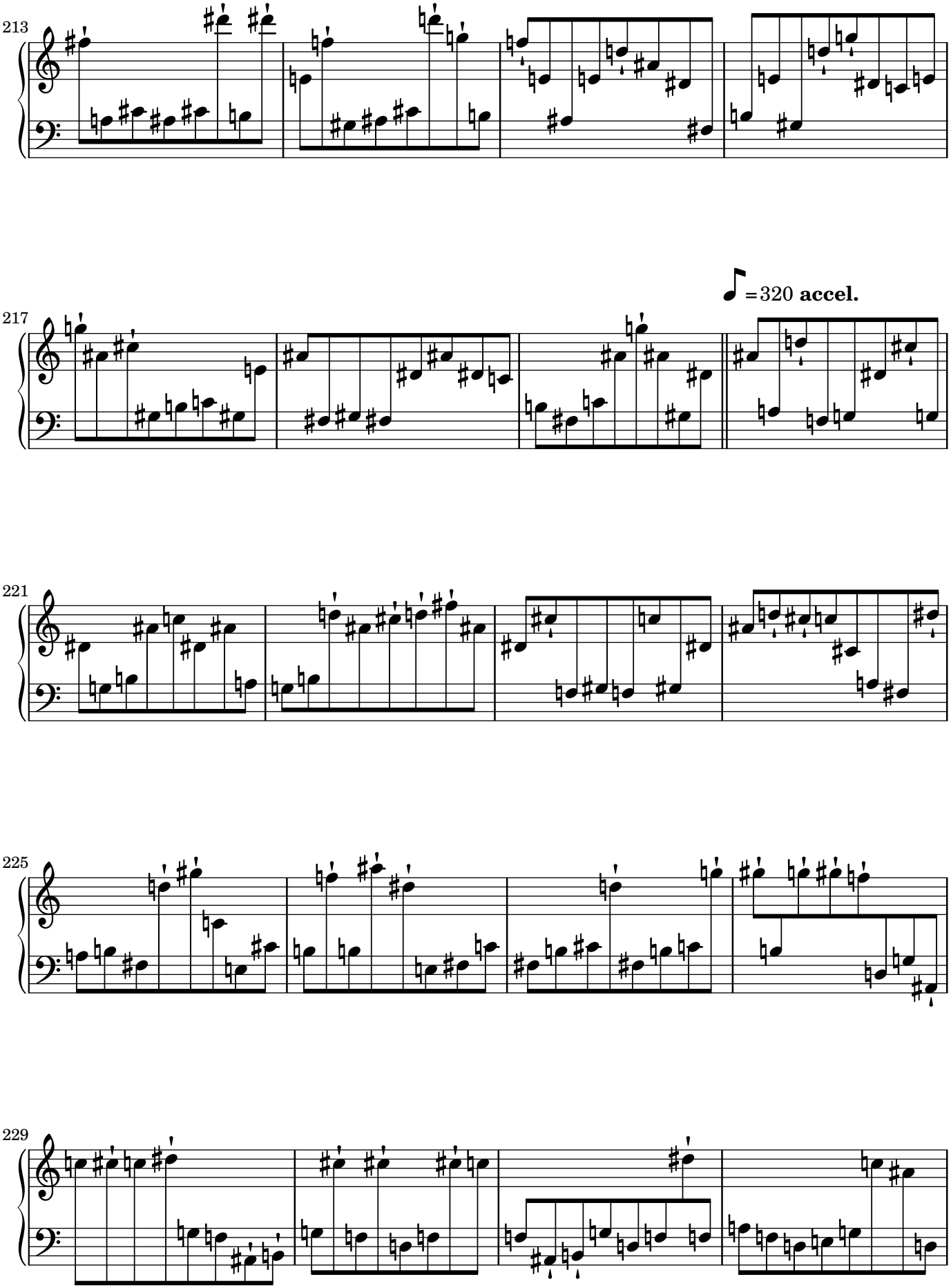

163

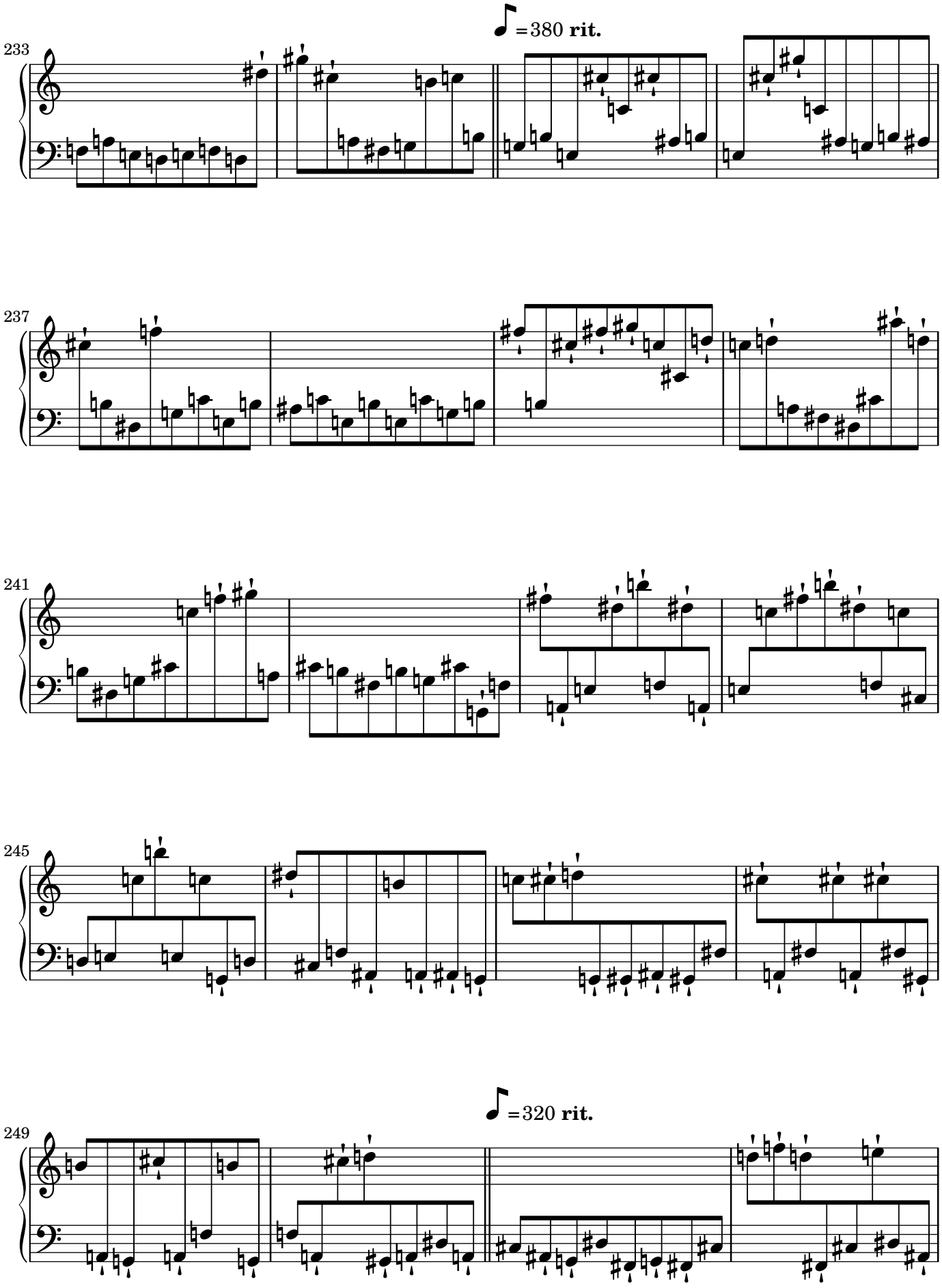

♩=290 accel.
167


171


175
179
183
♪ = 320 accel.
186
189


193
197
♩=350 rit.
201
205
209


213
217
♩=320 accel.
221
225
229


233
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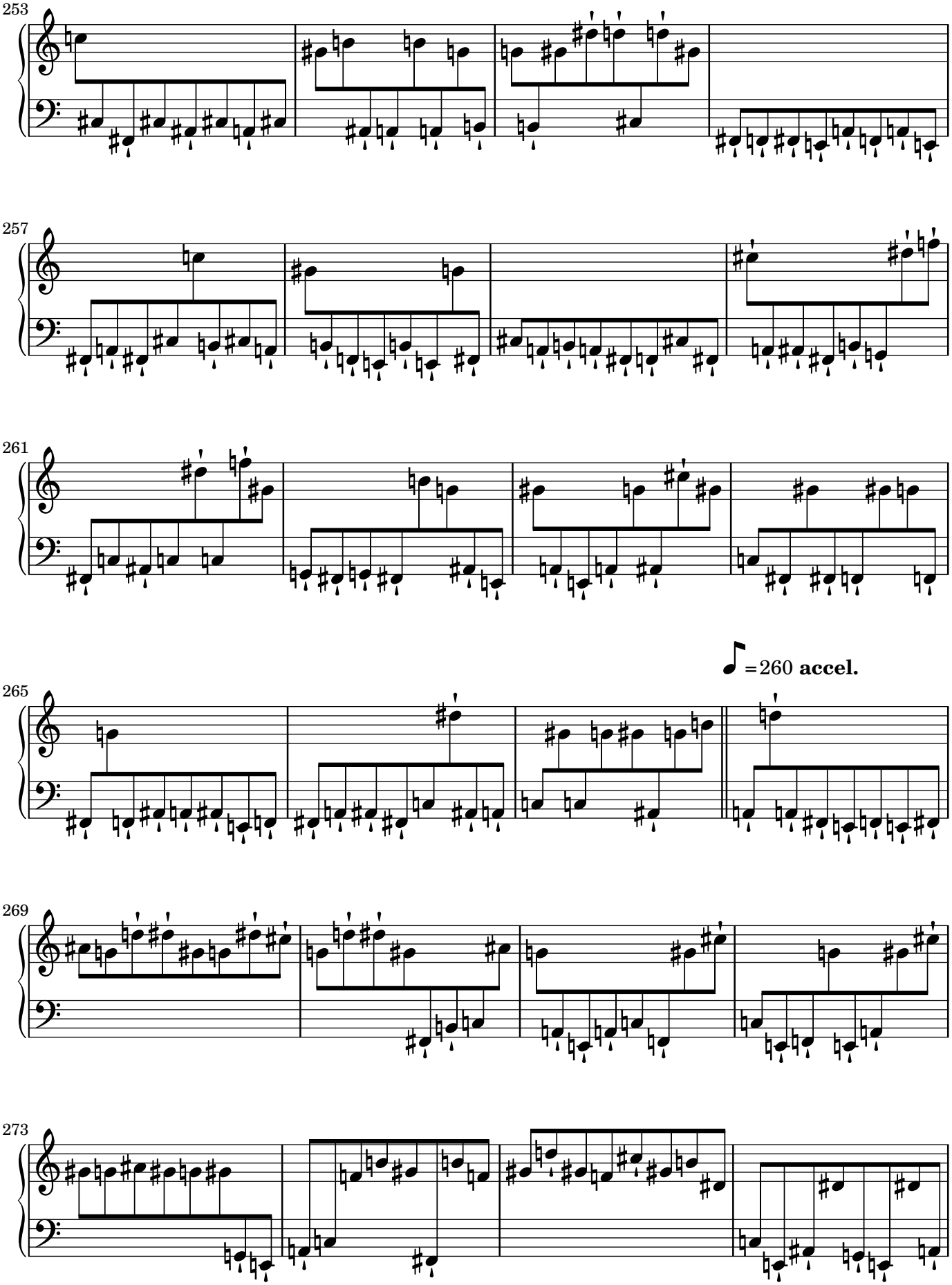
237
241
245
249
♪=320 rit.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261
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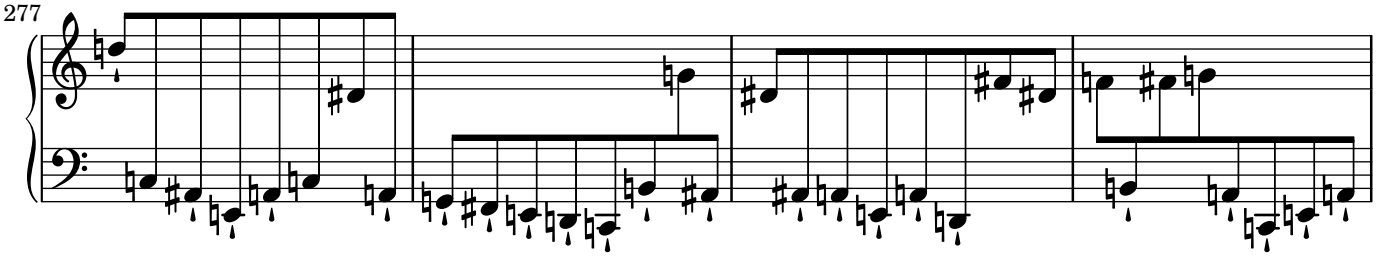
277



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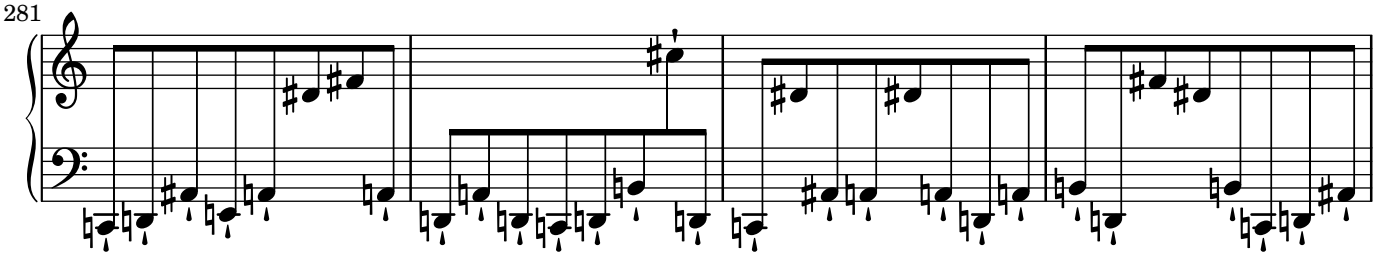

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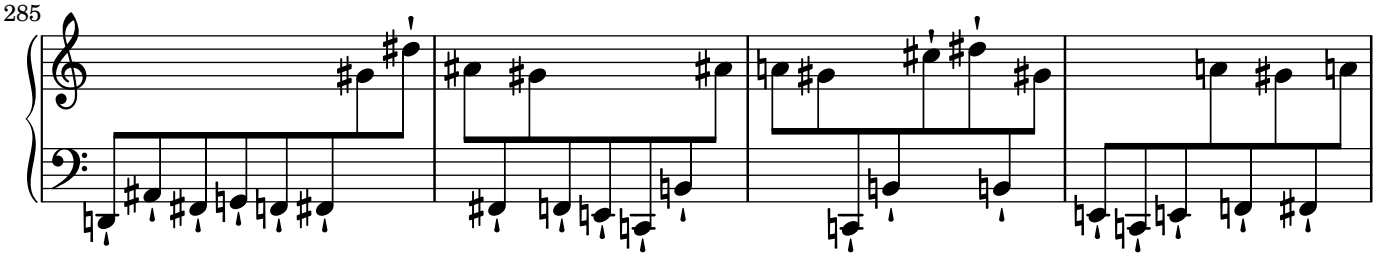

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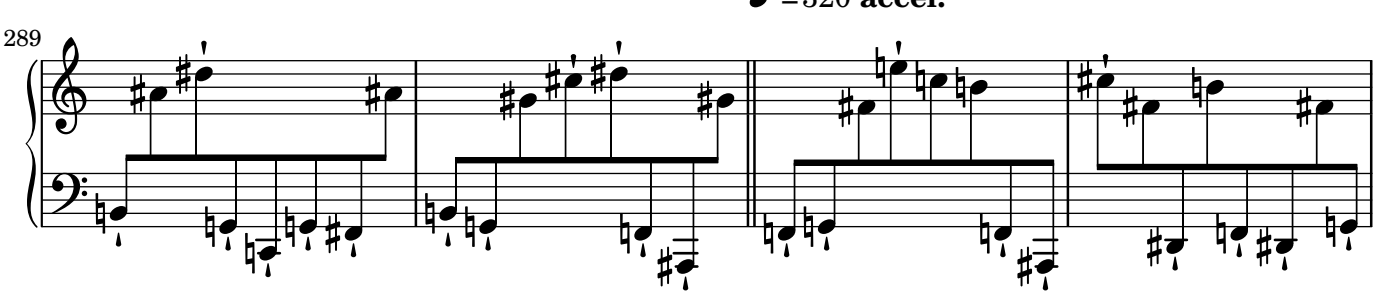

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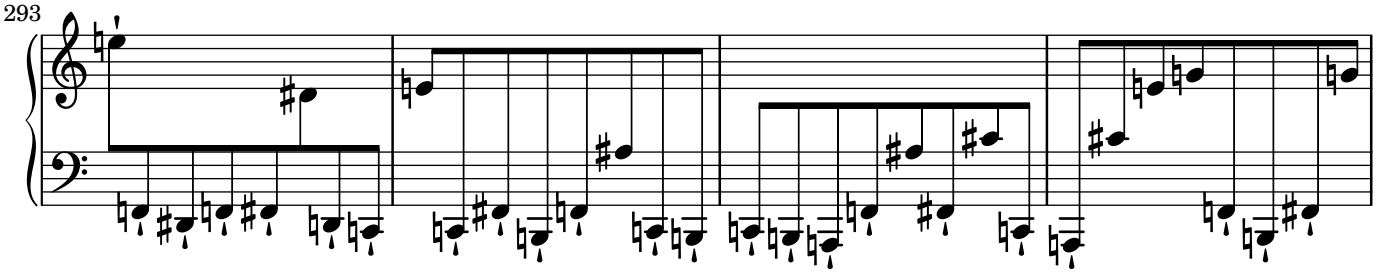

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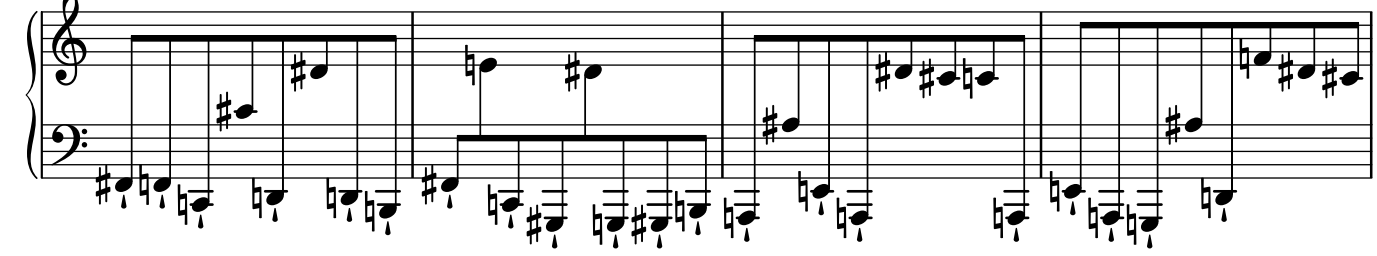

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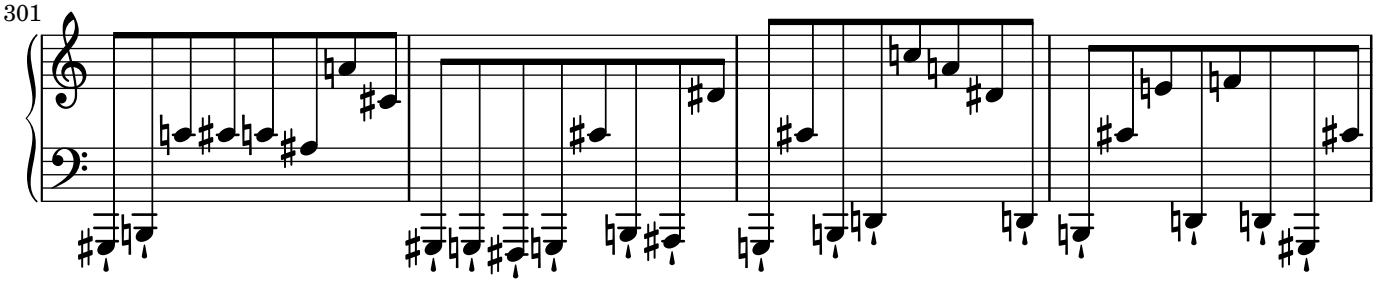
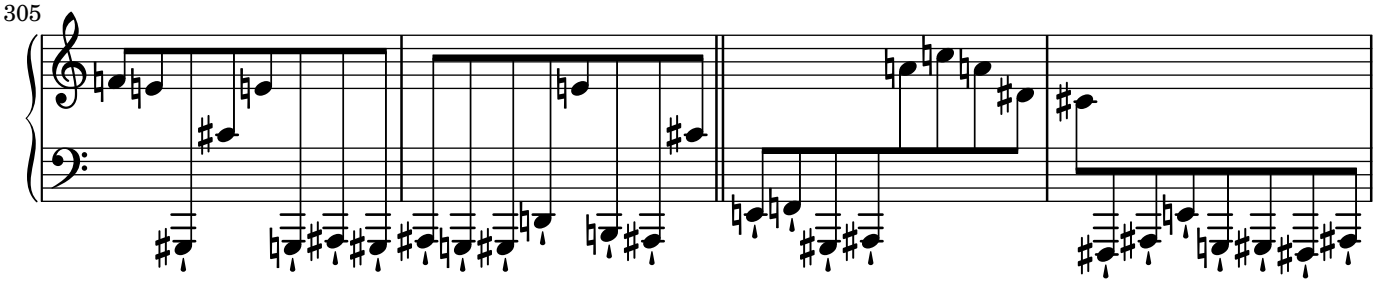


♩ = 350 **rit.**

305



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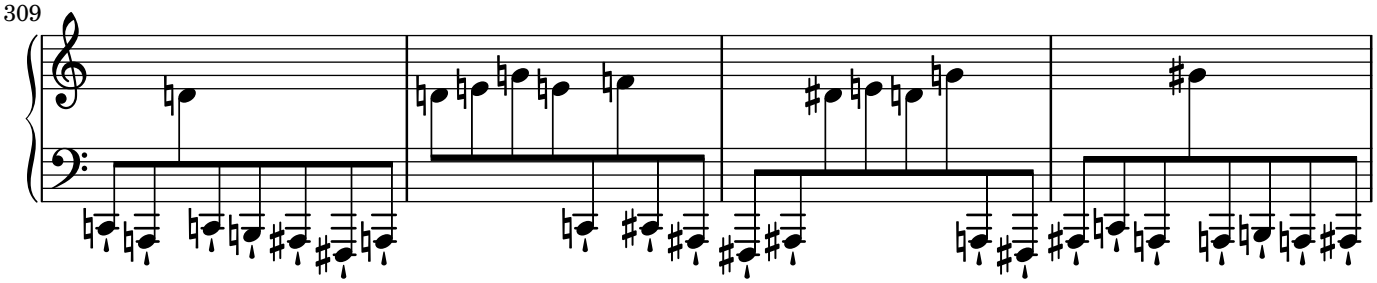

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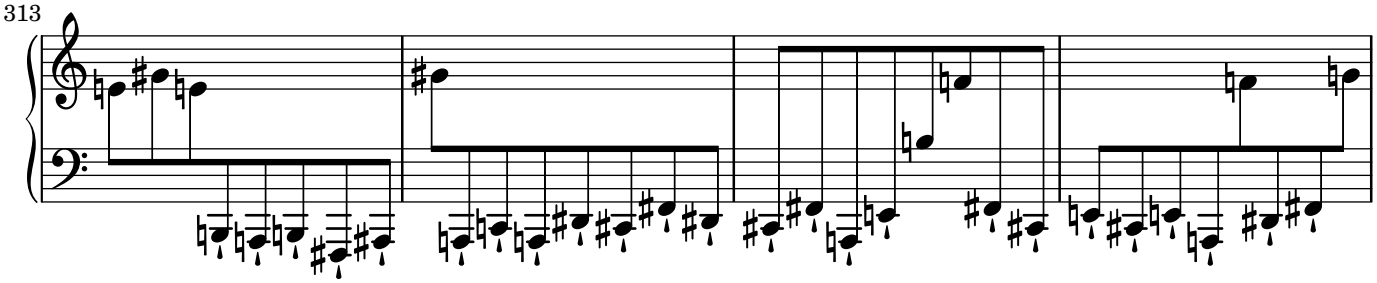

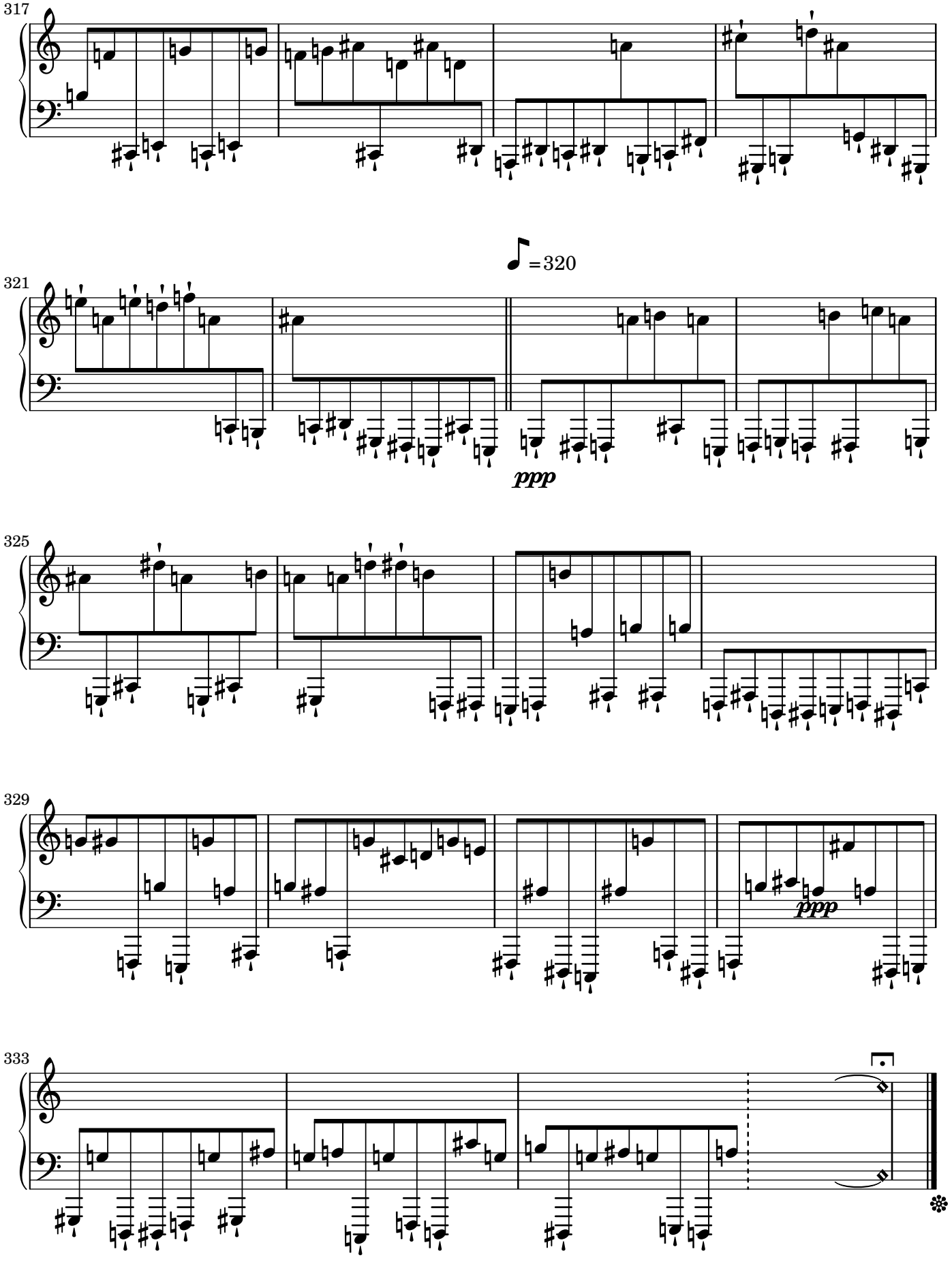
317
♩=320
321
ppp
325
329
ppp
333