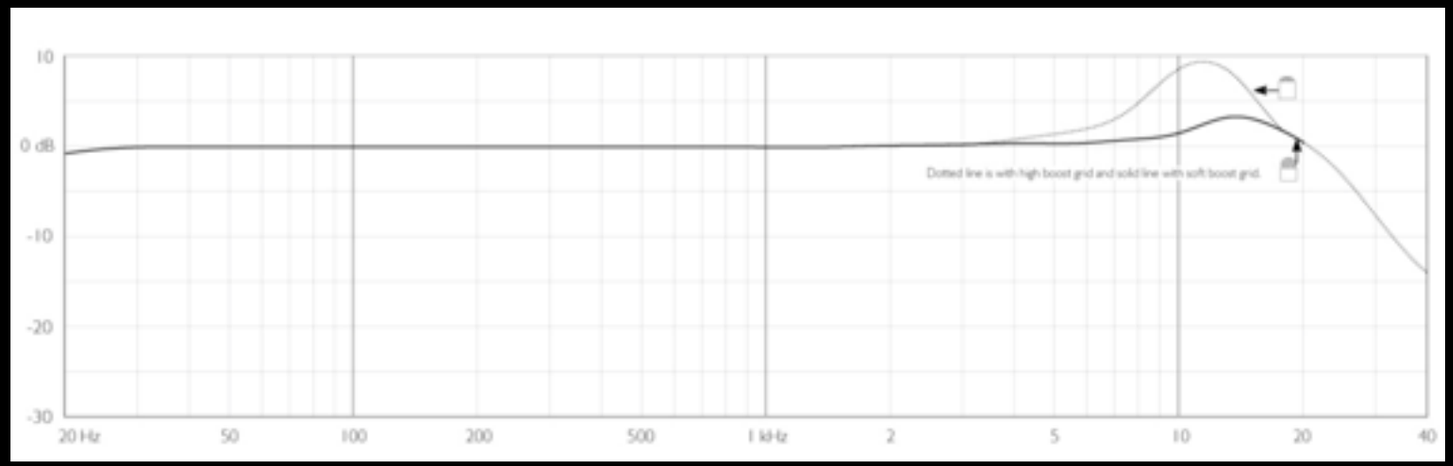
for 7 pianists and electronics

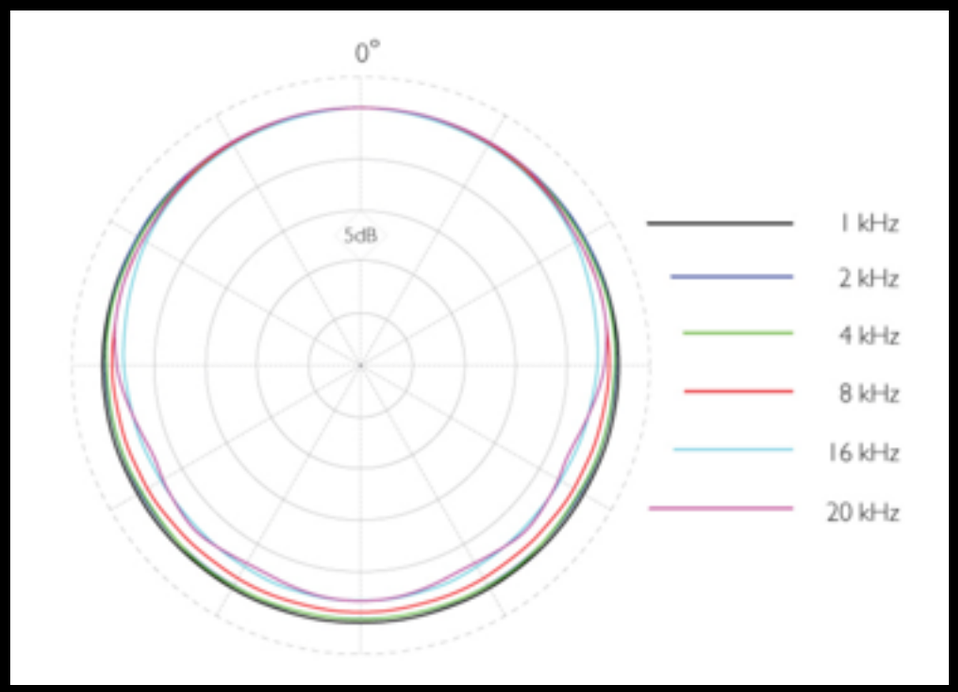
Geysir

* Valley of Haukadalur

1. recording. DPA 4060 Omnidirectional



Frequency response



Polar pattern

2. Spear. Resynthesis Audio reduction (delete partials below threshold)

* Resynthesis

* Audio reduction (delete partials below threshold)

3. Orchids

* Generate text file for Max MSP to read

4. Max MSP

* Patch turns .txt file into .xml file
* Microtonal resolution
* Rhythmic resolution (quantization)

5. Sibelius

* import .xml file

* Notational problems (how do I capture the rhythmic complexity of the geyser without writing a virtuoso piano piece?)

* Statistical counts of pitches

6. Frequency band segmentation

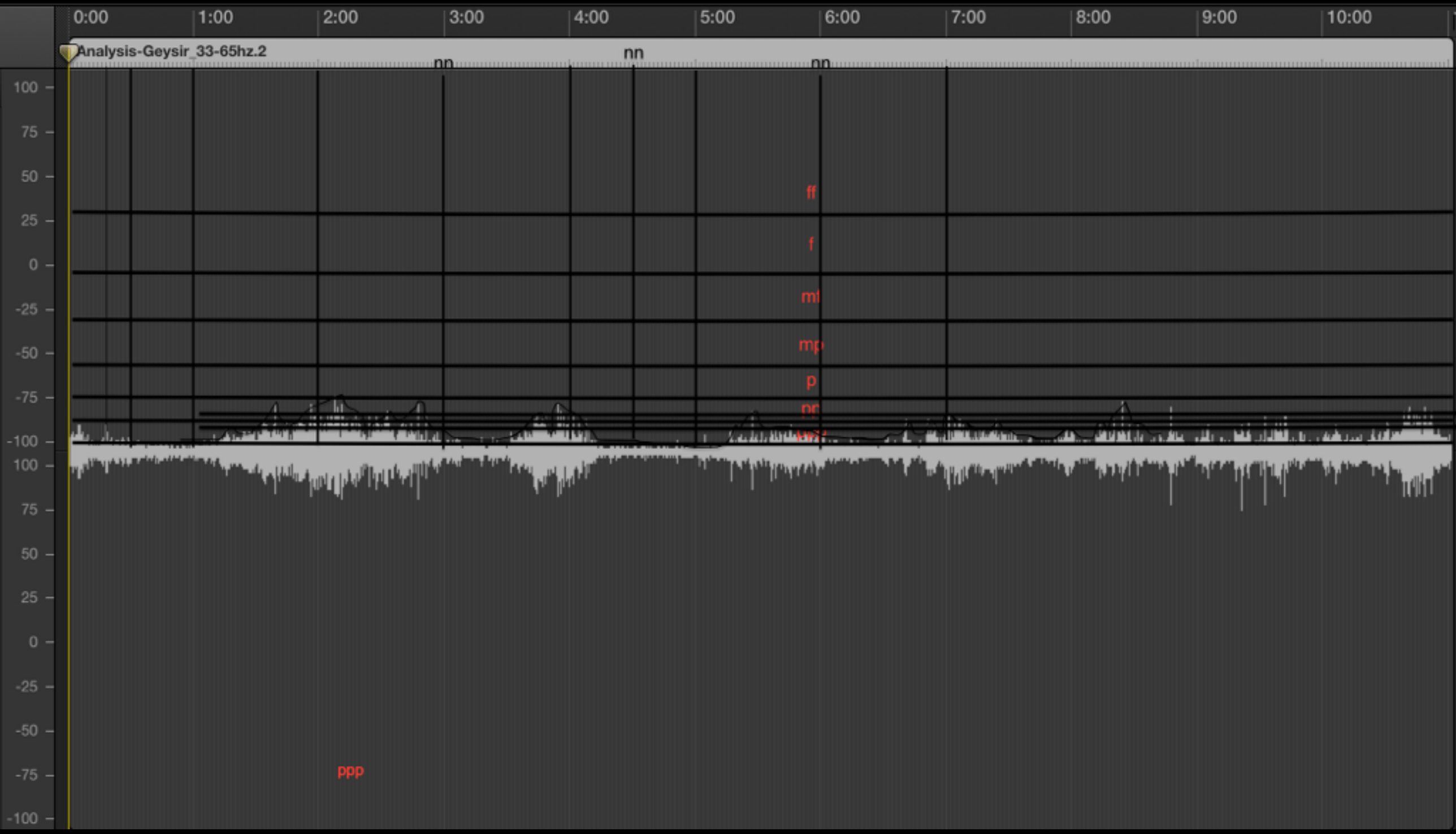
* Segmented original field recording in 7 octaves
* 7 individual tracks, one for each octave

7. Base X pitch predominance algorithm

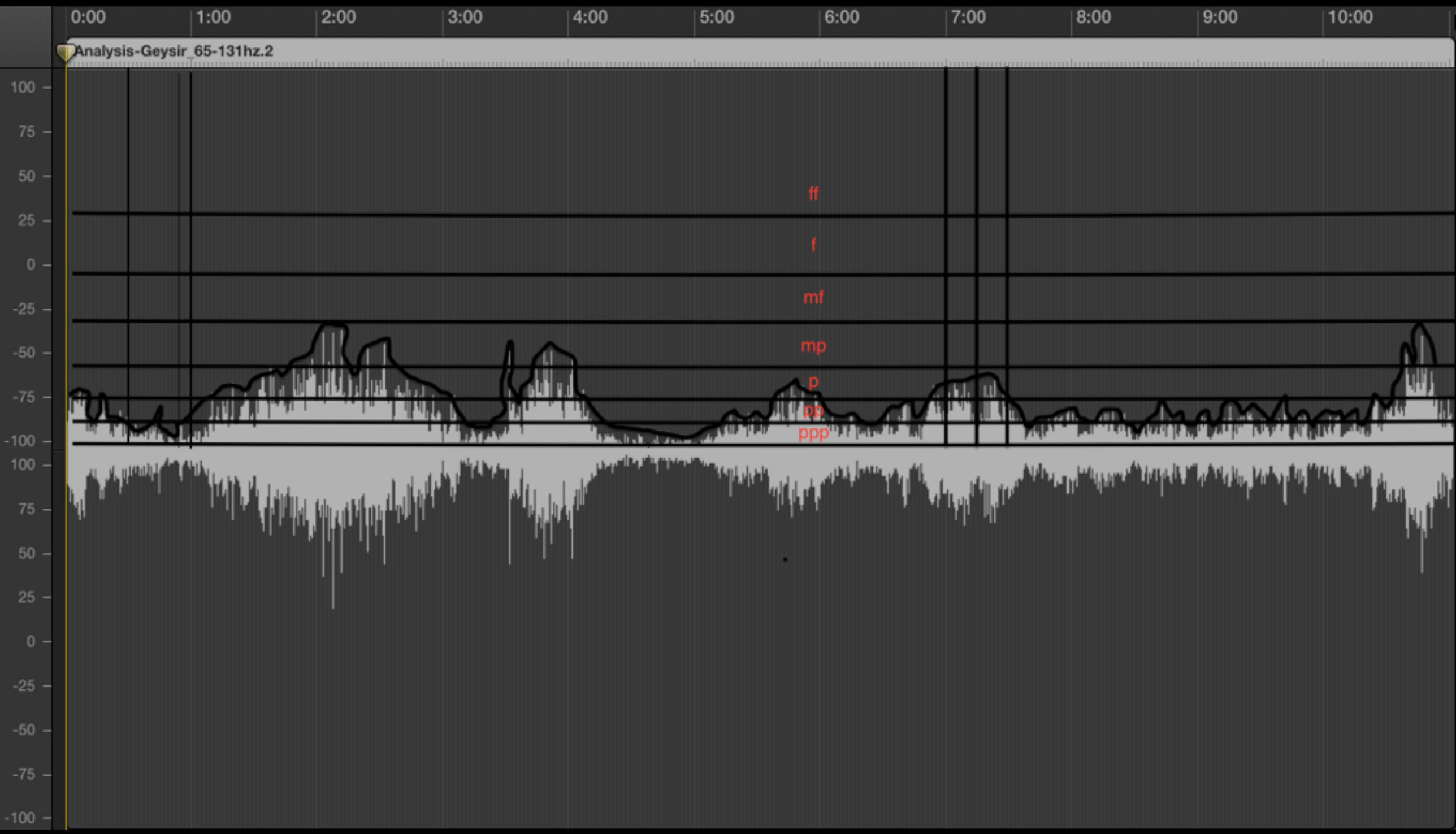
* Reads .xml
* Calculates order of predominance of pitches (high, medium, low)
* Randomized bar groupings for calculations

8. Amplitude equivalences in dynamics

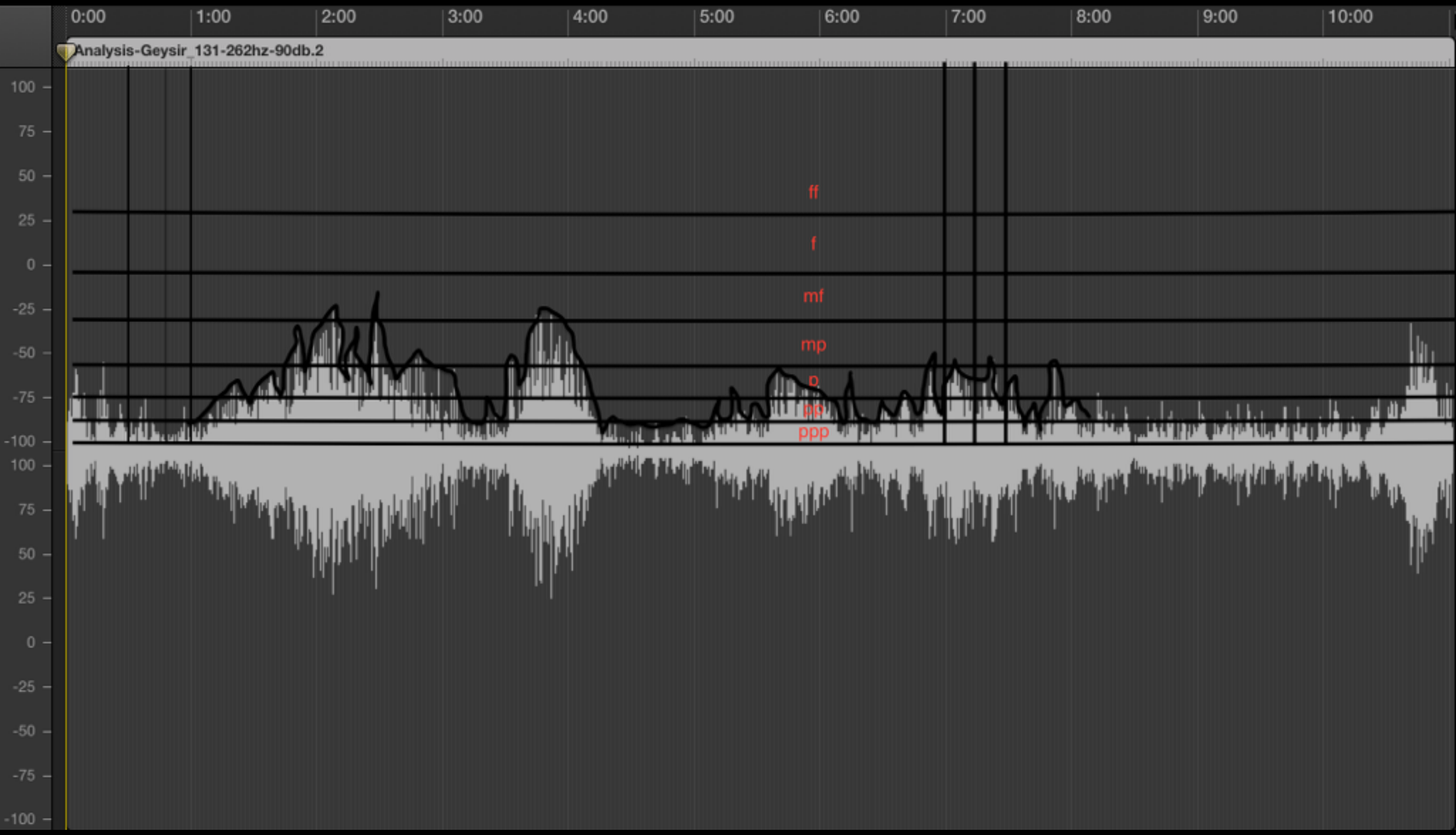
Amplitude piano 1 (33-65 hz)



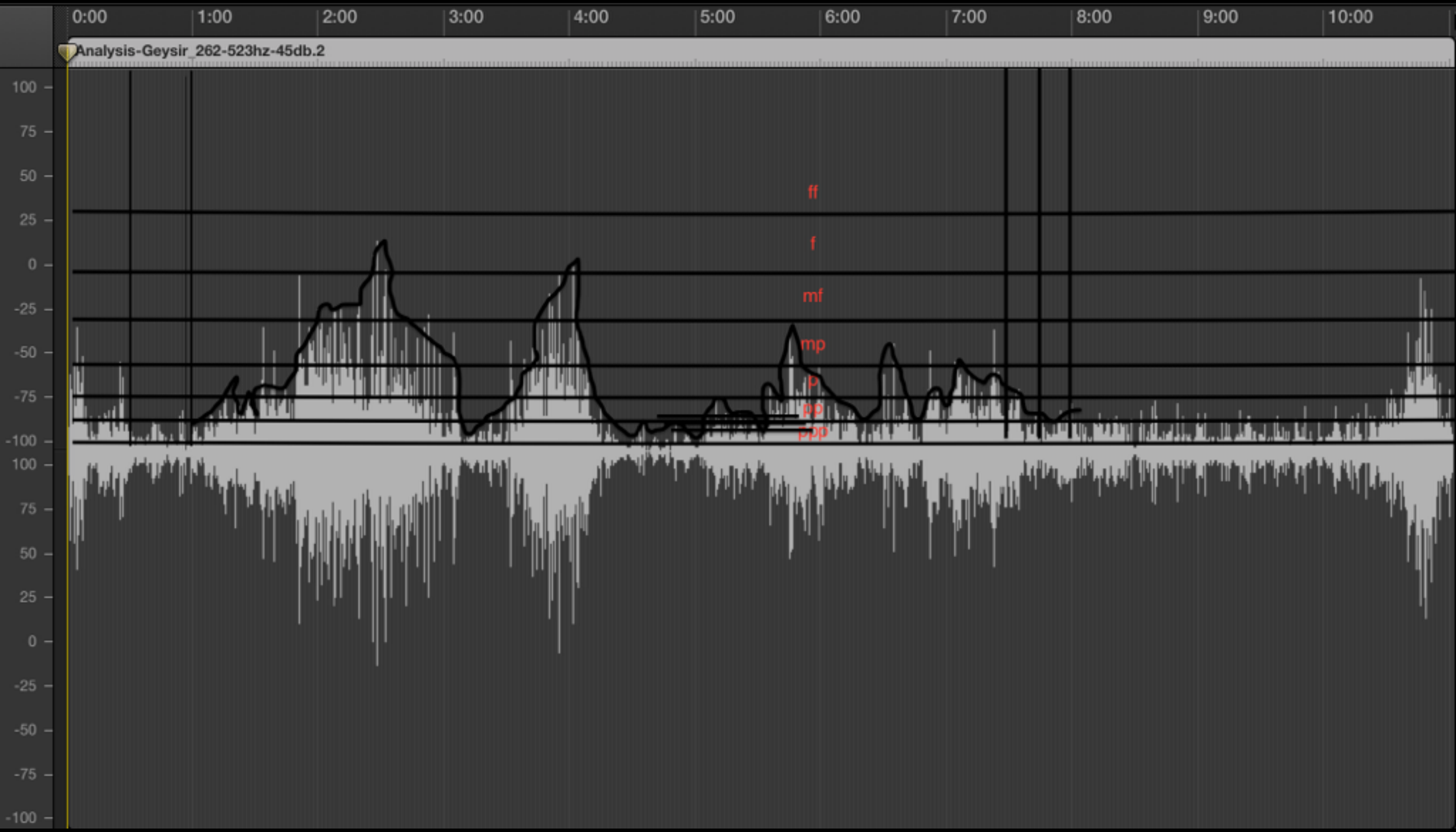
Amplitude piano 2 (65-131 hz)



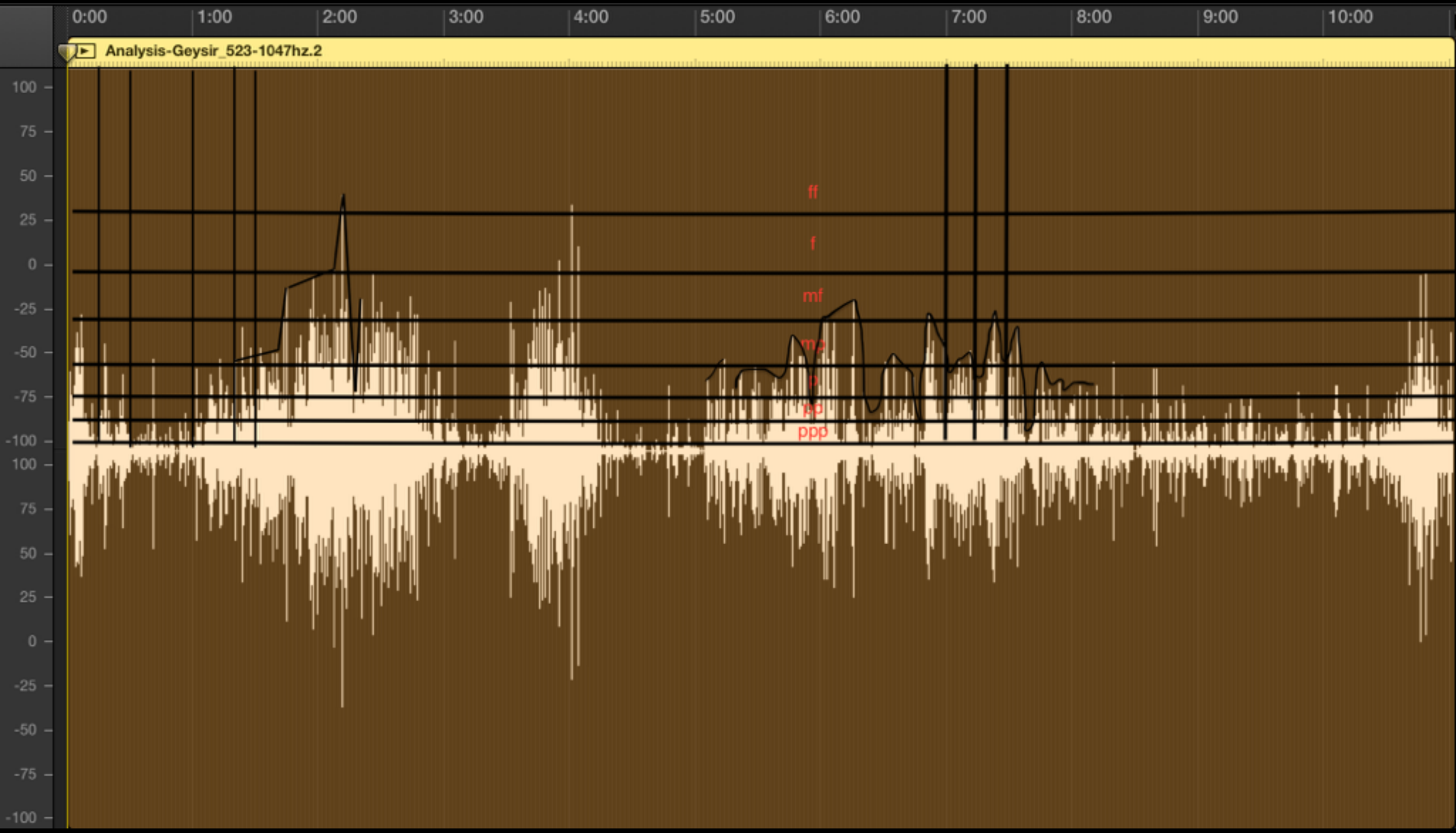
Amplitude piano 3 (131-262 hz)



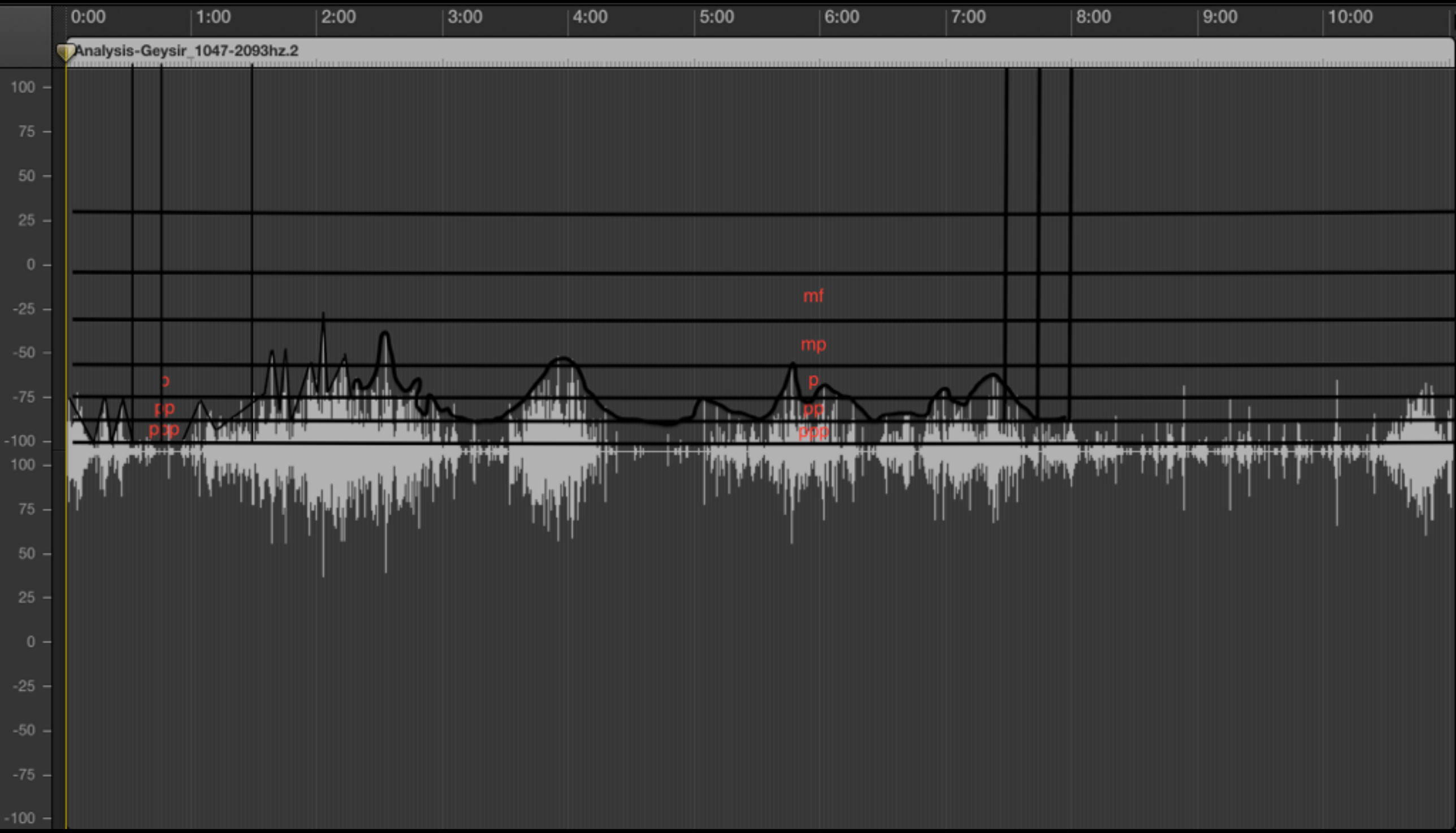
Amplitude piano 4 (262-523 hz)



Amplitude piano 5 (523-1047 hz)



Amplitude piano 6 (1047-2093 hz)



Amplitude piano 7 (2093-4186 hz)

8. Electronics

* Frequency Strata

* Spatialization