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1.

- **What is the length of the audio signal: t in seconds?**

3.6033333333333335 sec

- **What is the fundamental frequency of the audio signal: F_0 in Hz?**

1877 Hz

- **What are the second and third partials of the audio signal?**

The second partial of the audio signal: 7012Hz

The third partial of the audio signal: 1033Hz

4.

- **Do you think your synthesized signal resembles the original musical instrument?**

Not similar as we want. Because the number of partials in the synthesized signal is different from number of partials in the synthesized signal.

- **What would you do to make the synthesized signal more similar to the original?**

In my view, there are three factors which could enhance this feature:

- ✧ Amplitude of the synthesized signal should as the same as the amplitude of original signal.
- ✧ And the frequency of the synthesized signal could include the same number of partials as those in the original signal.
- ✧ Add some noises to the synthesized signal.