

Study Guide for the Practical Exam (acoustic analysis)

Study *all* signals contained in the LING330MJM.aif file.

- a. Find the F_0 value for the vowel segments by determining the duration of a cycle. Explain the theoretical principle relevant here.
- b. Measure the formant frequency values of the vowels in the spectrum. Explain the theoretical principle relevant here.
- c. Measure the duration of the stop or fricative sounds. Explain how you obtain the measurements values (i.e. argue for the placement of the cursors).
- d. Find the stop sounds with Voice Onset Time in the spectrogram. Measure the duration of the VOT for each stop sound. Explain how you obtain the measurements values (i.e. argue for the placement of the cursors).
- e. Describe the acoustic characteristics as shown in the wave forms and spectrograms of vowels, stops (with or without VOT), fricatives, affricates, nasals and approximants.