PHY408: Time Series Analysis
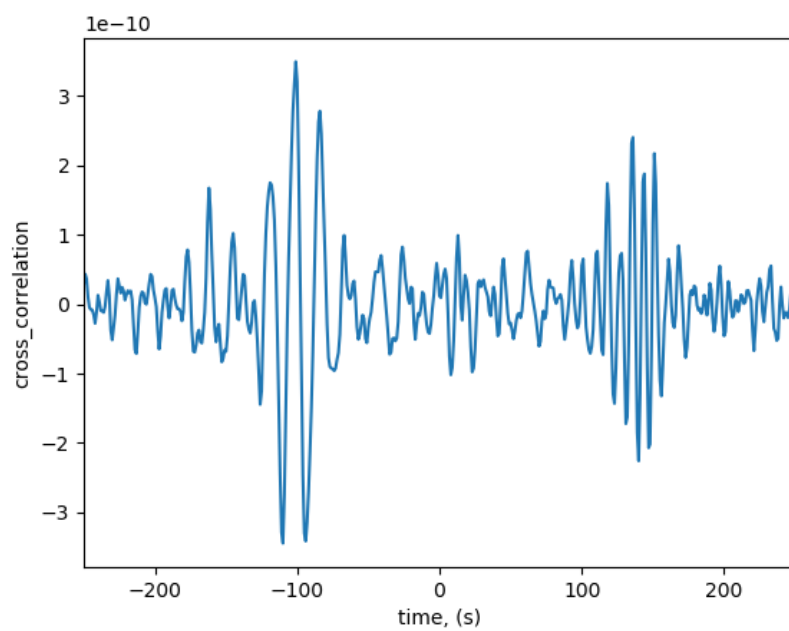# Lab 4

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Figure 1: Cross correlation of PHL and MLAC data

Part 1

1.1

Refer to Figure 1

1.2

Refer to Figure 2. The bit conversion did not preserve the phase information of the true cross-correlation.

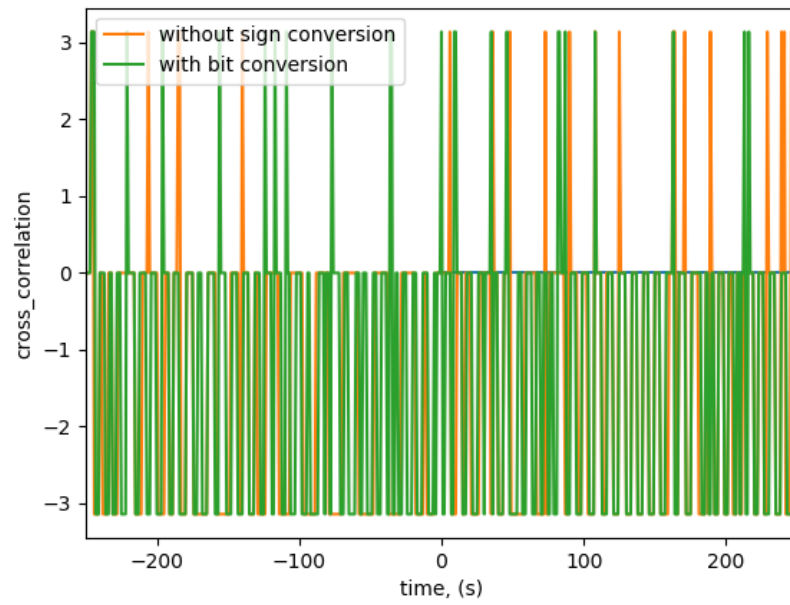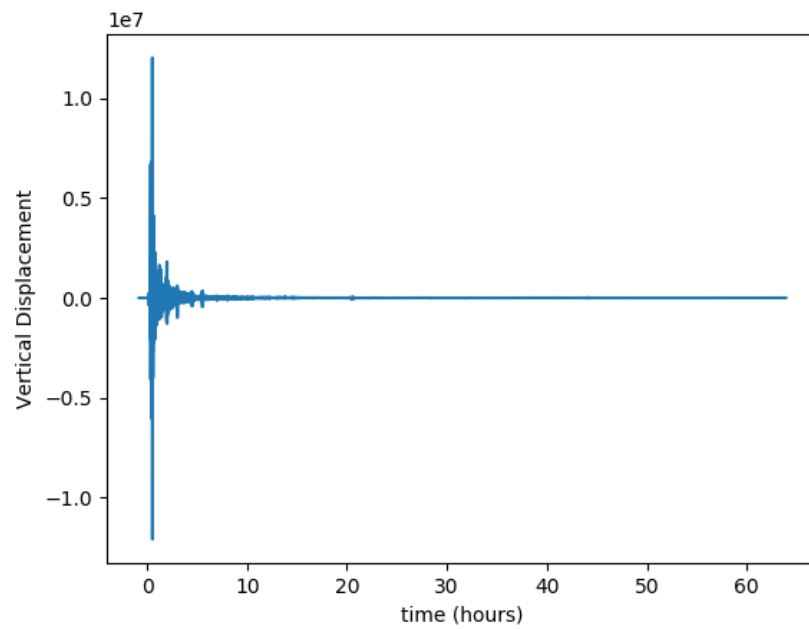Figure 2: Cross correlation of PHL and MLAC data after bit-conversion

Figure 3: Plot of raw seismic data

Part 2

2.1

Refer to Figure 3

2.2

Refer to Figure 4

2.3

Refer to Figure 5

2.4

Refer to Figure 6

2.5

Refer to Figure 7

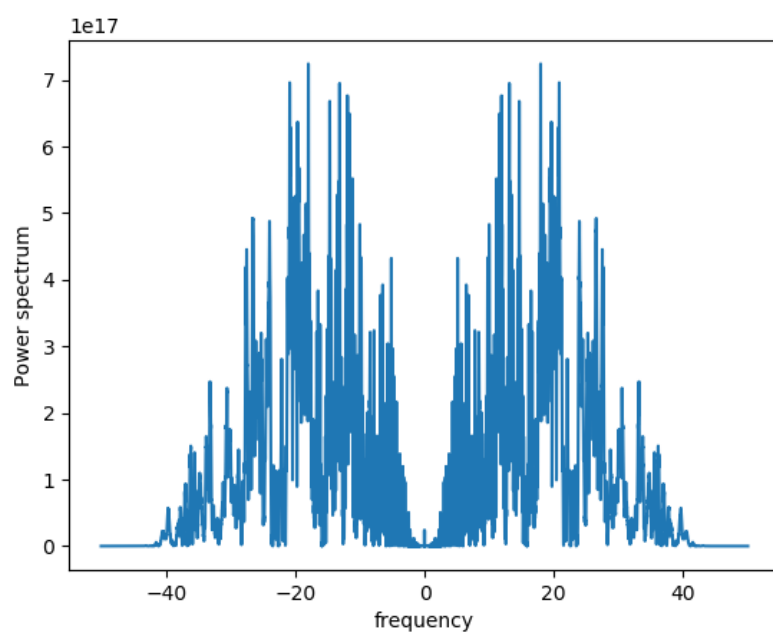Figure 4: Power spectrum of raw data without windowing

Figure 5: Power spectrum of raw data after detrending and applying hanning window
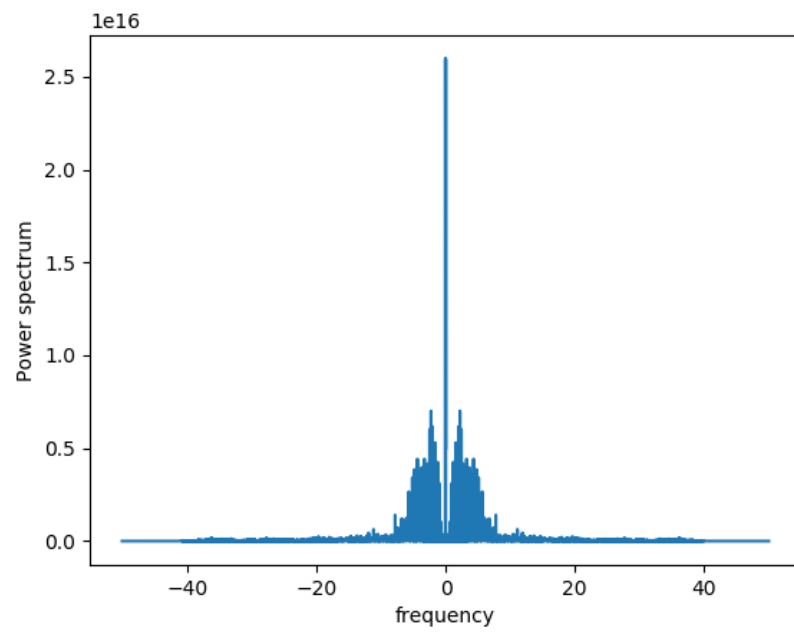
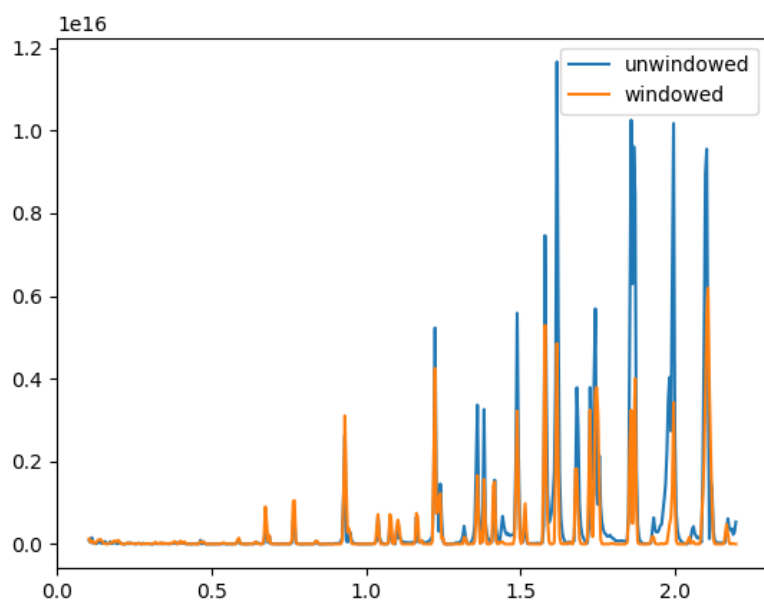Figure 6: Plots in Figures 4 and 5 overlayed and zoomed in

Figure 7: Identification of normal modes from power spectra of seismic data