Abstract Submitted for the APR21 Meeting of The American Physical Society

Continuation of the Analysis and Comparison of Light Intensity Spectra Using Fourier and Wavelet Analysis. COLLEEN LINDENAU, GRACIE BUONDONNO, JOSEPH TROUT, Stockton University — This poster demonstrates our research on analyzing the light intensity spectra of stars with data provided by the Kepler Space Telescope. We analyzed the stellar light curves using Fourier Analysis and Wavelet Analysis. Continuous data of the light spectra intensities are used for the analysis of astronomical phenomena such as discovering the orbit of previously unseen planets. We compared the time series of light intensities recorded from a ground and space telescope. The time series data from a ground space telescope is sometimes missing data, we are working towards a way to fill in the missing data points by using data from land-based telescopes. This poster presents the comparison of data collected and analyzed with Fourier Analysis and Wavelet analysis.

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Date submitted: 07 Jan 2021 Electronic form version 1.4