

1103-94-16

Joseph D Lakey* (jlakey@nmsu.edu), Dept. Mathematical Sciences, NMSU, Las Cruces, NM 88003-8001. *Bandpass Prolates and an Application to Electroencephalography.*

The bandpass-limited functions that are most concentrated in a given time interval are called bandpass prolates. We present a method to compute these bandpass prolates starting from full band prolates, and use them to extract temporally concentrated bandpass projections of wideband signals. An application to the study of phase synchrony in EEG signals will be presented. (Received July 13, 2014)