

Name: Andrzej Baran
Email: andysbaran@gmail.com
Institution: Uniwersytet Pedagogiczny w Krakowie
Title: Artifacts in the short cadence Kepler data
Type: Poster
Session: Asteroseismology
Abstract: We present our search for artifacts in the Kepler short cadence data using a commonly known Fourier technique. We analyzed data on a monthly basis seeking for a possible correlation between artifacts and the events attributed to the spacecraft as potential sources of the spurious frequencies. We defined a peak to be an artifact if shows in at least two, yet preferentially most of the stars, during a given month. Besides the commonly known LC comb we found a periodic appearance of another two combs and a very strange wide artifacts roaming between 10 and 35\c/d. These artifacts evolve on a yearly basis (four Kepler's rolls) and we may only speculate that its source is in temperature instability.