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Title: Asteroseismology of pulsating stars in 23 eclipsing binaries
Type: Poster
Session: Asteroseismology
Abstract: We present light curve modeling and frequency analysis of 23 eclipsing binaries with pulsating components of delta Scuti or gamma Dor type. By combining Kepler light curves with our spectroscopic analysis, we get accurate fundamental parameters like mass, radius, temperature and age. From comparison with theoretical evolutionary tracks and pulsation frequencies calculated by MESA and GYRE, we attempt to identify the pulsation mode and further constrain these fundamental parameters. As an example, we show the iterative light curve modeling and preliminary asteroseismic analysis of KIC9851944. It is likely that both components are delta Scuti type pulsators, and tidally induced pulsations are also detected. Further theoretical modeling of the tidal effect on the oscillation frequencies is underway.