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Title: Asteroseismology of Red Giant Stars
Type: Invited Talk
Session: Asteroseismology
Abstract: Asteroseismology of red giants has been one of the big successes of the Kepler Mission. About 16000 oscillating red giants have been observed for the duration of the mission, providing an enormously rich data set. I will review some of the key results, which include the measurement the internal structure and rotation of red giants in a range of evolutionary stages, as well as evidence linking pulsation and mass loss. I will also comment on prospects for gleaning new results from this amazing set of observations, such as finding rare and unusual objects, and detecting planets around giants.