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Title: The APOGEE-KASC Catalog of Seismic and Spectroscopic Properties
Type: Invited Talk
Session: Asteroseismology
Abstract: APOGEE is a survey of ~100,000 stars throughout the Galaxy, using a multi-object, high-resolution, near-infrared, wide-field spectrograph as part of SDSS-III. A main part of the APOGEE survey will be an extensive study of the Kepler field, with the goal of obtaining spectra for ~8000 red giants and ~500 dwarfs that have also been detected seismically. These H-band spectra will provide metallicity, abundance ratios of up to 15 chemical elements, line-broadening information and effective temperatures, complementing the stellar properties measured from the seismic oscillations. The combined catalog will yield even more insights into the properties of stars and stellar populations. Among the applications complete stellar population studies, including evolutionary state, testing the scaling relations at a range of metallicities, deriving stellar ages and correlating stellar interior properties with composition. I will discuss the spectroscopic efforts, the construction of the catalog, and its availability to the community