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Title: The KELT Network: Small Telescope Follow Up for Kepler EBs and KOIs

Type: Poster

Session: Future Exoplanet Telescopes and Instrumentation

Abstract: With the end of regular Kepler observing, a rich array of targets discovered by the mission are in need

of photometric time-series follow-up observations. These include a select set of targets that can be observed by small ground-based telescopes for which additional light curves will be valuable. Such targets include eclipsing binaries with third stellar companions, host EBs of circumbinary planets, and KOIs with transits deep enough to be measured from the ground. I will describe a collaboration of small (<1-m) telescopes that have joined into a network for follow-up observations of transit candidates from the KELT transit survey. We have begun using the network to follow up selected Kepler EBs to better characterize the physical parameters of the systems, and their long-term dynamics. Our collaborators have been able to regularly obtain high-quality light curves in multiple filters employing multi-site observatories spanning a range of longitudes, with typical photometric precision of ~2 mmag

RMS. I will present example

observations of bright star planet candidates, and the preliminary work we have done following up Kepler EBs. I will outline the potential of this network for observing additional target from Kepler.