



2025 Central Pennsylvania Consortium

ASTRONOMERS' MEETING

Saturday, April 5 | 9 a.m.–4 p.m. | Tome Hall

KEYNOTE SPEAKER

Dr. Josh Winn, *Princeton University*



NASA's Transiting Exoplanet Survey Satellite

The Transiting Exoplanet Survey Satellite (TESS) is NASA's ongoing mission to discover planets outside the solar system, and more generally, to explore the bright and time-variable sky. TESS uses four 10-cm optical telescopes to perform precise time-series photometry over wide fields of view. In the seven years since it was launched, TESS has covered nearly the entire sky, leading to the confirmation of about 600 new planets and the identification of several thousand planet candidates that are being followed up by ground-based observers. The initial goal of the TESS Mission — to detect 50 planets smaller than Neptune and measure their masses — was achieved, and now TESS is in an Extended Mission with broader goals. **JOSH WINN**, one of the Architects of the TESS mission, will review the history of TESS since its inception in 2006, and the most important and interesting results that have been achieved thus far. He will also describe the characteristics of TESS data and how you might use the data yourself.



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