

Thursday, April 27, 2017

NEW TECHNOLOGIES AND TECHNIQUES: OTHER TECHNOLOGIES AND TECHNIQUES:
NEW TECHNOLOGIES AND ALGORITHMS FOR FINDING EXOLIFE

1:30 p.m. Arizona Ballroom A-C

Chair: Jeff Kuhn

- 1:30 p.m. Worden S. P. * Klupar P.
[*The Breakthrough Initiatives: A New Search for Life in the Universe*](#) [#3073]
The Breakthrough Prize Foundation has initiated a far-reaching, many-year search for life in the universe. Elements of this program will be described here.
- 1:45 p.m. Berdyugina S. V. * Kuhn J. R.
[*Indirect Imaging of Proxima b and Earth-Like Planets*](#) [#3280]
We show how albedo maps of Proxima b can be successfully reconstructed for tidally locked, resonance, and unlocked axial and orbital rotation.
- 2:00 p.m. Moretto G. * Planets Foundation
[*Partially Filled Aperture Interferometric Telescopes: Achieving Large Aperture and Coronagraphic Performance*](#) [#3241]
We'll describe concepts of large, filled, and partially filled-aperture interferometric optical/IR telescope systems which break scaling relation.
- 2:15 p.m. Langlois M. * Kuhn J. Moretto G. Berdyugina S.
[*Extreme High Contrast Imaging of Exoplanets with Off-Axis Telescopes: Technology Incubation for the Next Decade*](#) [#3508]
I will present new exploratory techniques (extreme adaptive optics, coronagraphy, and scattered light suppression) dedicated to prepare cutting edge facilities.
- 2:30 p.m. Kuhn J. R. * Berdyugina S. V. Halliday D. Moretto G. Langlois M.
[*An Exolife Finder Telescope \(ELF\) for Prox B and Beyond*](#) [#3092]
Post-Keck era telescopes will be optimized for exoplanet direct imaging. This paper will describe the ExoLife Finder (ELF) for Prox-b studies.