Polarization and Exoplanets

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- Observe and monitor a variety of exoplanetary systems for polarimetric variability
- Build a baseline of polarimetric observations of host stars

Theoretical Models
- Seager, Whitney, & Sasselov (2000)
- Carciofi & Magalhães (2005)

Previous Observational Detections
- Berdyugina et al. (2008)
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- Restoration and Relocation of The University of Wisconsin's Halfwave Polarimeter (HPOL)
  - Broadband average polarization stability of $5 \times 10^{-5}$
    and 0.1 degree position angle stability
  - Guaranteed time at MLOF
- Observe HD189733b and several other transiting and non-transiting systems
- Test theory presented by Carciofi and Magalhães

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