Jet Propulsion Laboratory
California Institute of Technology

SPSC-01
NASA Exoplanet Exploration Program: Recent Results and Future Missions

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NASA Exoplanet Exploration Program

Purpose described in 2014 NASA Science Plan

1. Discovering planets around other stars
2. Characterizing their properties
3. Identifying candidates that could harbor life

The Search for Life in our Galaxy

Exoplanet Missions

WFIRST / AFTA

JWST

TESS

PLATO

Kepler

CHEOPS

Spitzer

Gaia

New Worlds Telescope

Hubble[1]

CoRoT[2]

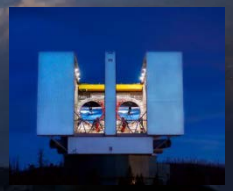
Habitable Exoplanet Imager

L-UV-OIR

NASA Missions

ESA/European Missions

Ground Observatories



Large Binocular Telescope Interferometer

NN-EXPLORE

[1] NASA/ESA Partnership
[2] CNES/ESA

Exoplanet Technology Session

SPSC-02, Today at 3:30

- Session Context Overview – **Nick Siegler**
- Starshade Technology – **Jeremy Kasdin**
- Desert Testing the Starshade – **Steve Warwick**
- The First High-Contrast Coronagraph in Space – **Rick Demers**
- Large Future Space Telescopes – **David Redding**
- Panel discussion - **All**

Intended Results of This Session

1. Engage you with the exciting *present* and *future* of exoplanet science
2. Introduce to you the family of current and planned NASA Exoplanet Missions
3. Describe NASA's plans for Decadal large mission studies – and learn of two compelling possibilities