

WELCOME

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Founding Director, SU Space Rendezvous Lab (SLAB)

Satellite Advisor, SU Student Space Initiative (SSSI)

Chairman, NASA Starshade Technology Group (TSWG)

Associate Editor, AIAA Journal of Guidance, Control, Dynamics (JGCD)

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Goal: Help SIP maximize TRL of starshades to enable future exoplanet science missions

GROUP 1 – Sharpening Aim



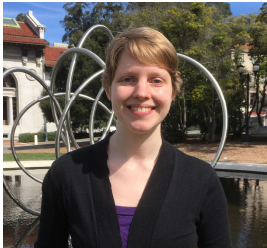
- Identify solutions to challenges faced by the S5 development activity
- Propose new approaches, techniques, and research beyond planned S5 activities that can maximize starshade technology readiness

GROUP 2 – Selecting our Targets



- Document new mission concept drivers for starshade technology performance requirements
- Maintain alignment between S5 technology development activities and future mission needs

GROUP 3 – Inclusion and Participation

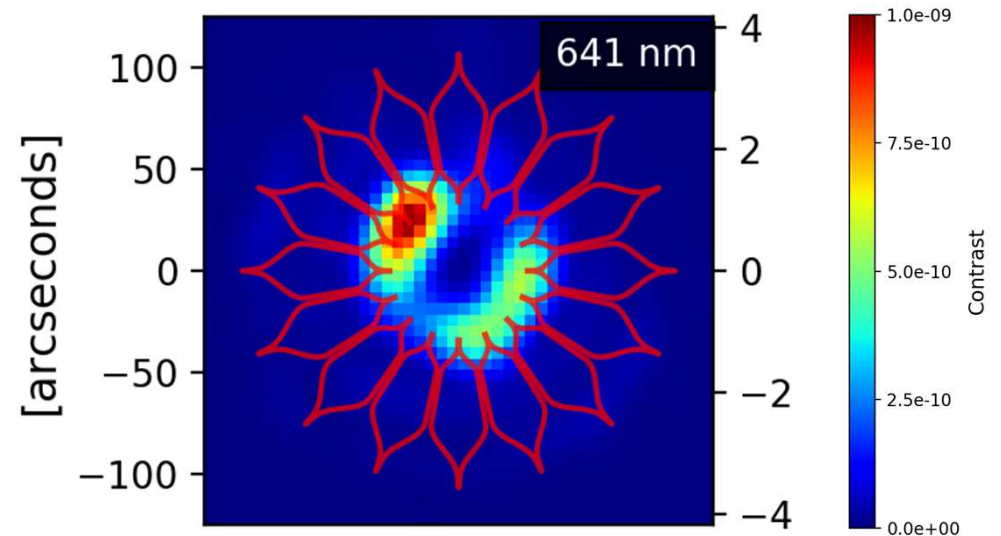


- Facilitate groups of investigators to communicate research, new technology, and new mission concepts across disciplinary, organizational, and geographic boundaries
- Enable continued participation of the community in NASA's starshade technology development activities

GROUP 1 – Sharpening Aim

- Identify solutions to challenges faced by the S5 development activity
- Propose new approaches, techniques, and research beyond planned S5 activities that can maximize starshade technology readiness

- Provide rationale and technical basis for the error budget in a self-contained document
- Design and support community data challenges to increase fidelity of KPPs' traceability to scientific objectives.
- Perform additional investigation into scaling of vector diffraction
- Determine if new testbed is needed for TRL 6 and identify top level requirements on that testbed

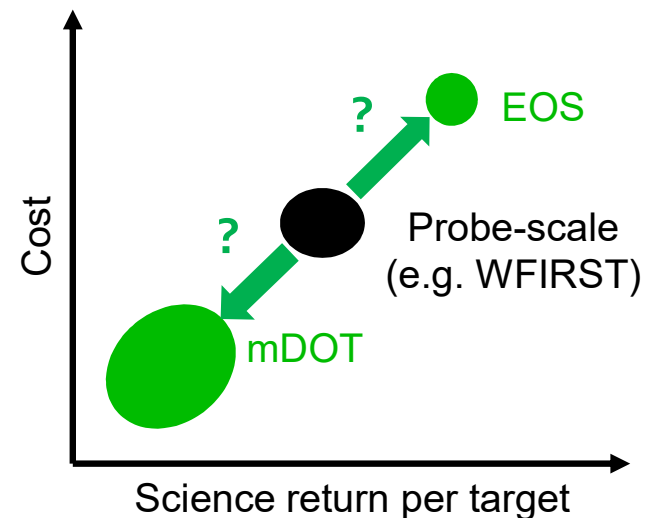


Anthony Harness (Princeton)

GROUP 2 – Selecting our Targets

- Document new mission concept drivers for starshade technology performance requirements
- Maintain alignment between S₅ technology development activities and future mission needs

- Given the current landscape of starshade concepts, survey and assess TRL of required and enabling technologies
- Based on the previous action, support the further development of identified technologies which have broad applicability to starshades

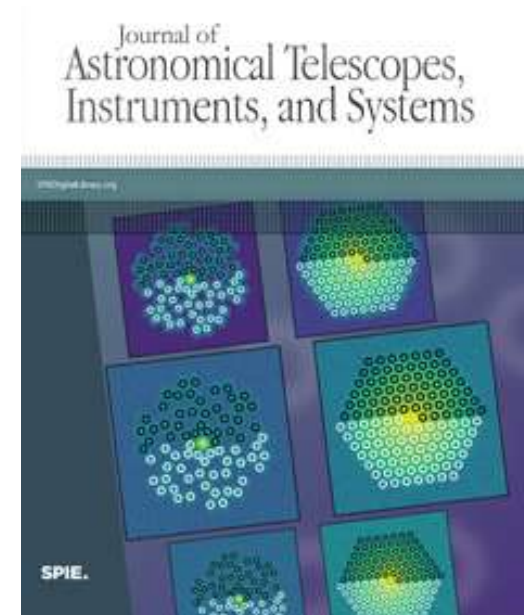


Adam Koenig, Simone D'Amico (Stanford)

GROUP 3 – Inclusion and Participation

- Facilitate groups of investigators to communicate research, new technology, and new mission concepts across disciplinary, organizational, and geographic boundaries
- Enable continued participation of the community in NASA's starshade technology development activities

- Involve and engage students and the broader community with SIP through several initiatives



JATIS Website

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