

Team project #1

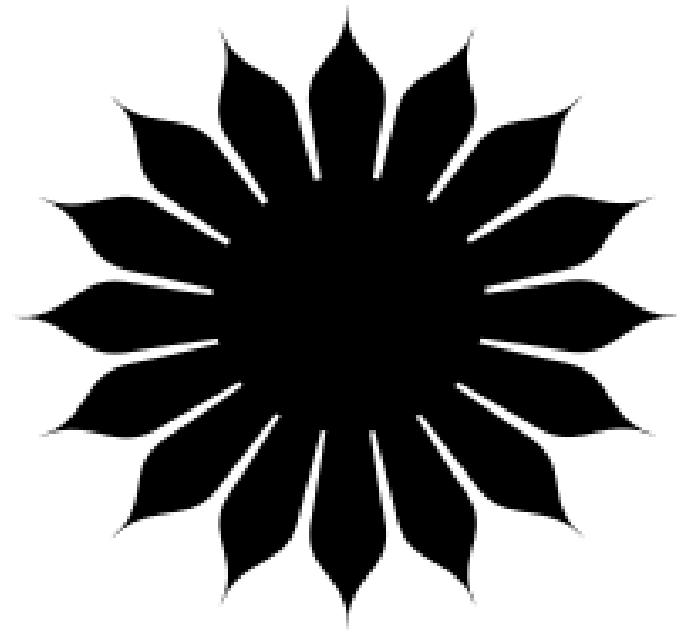
Space external occulter project

Imaging and characterization (spectroscopy) of Earth-like planets with a non-coronagraphic telescope + external occulter

Design telescope + occulter: telescope diameter, occulter(s) size and distance

Observing scenarion, targets ?

Implementation challenges ?



Starshade example geometry

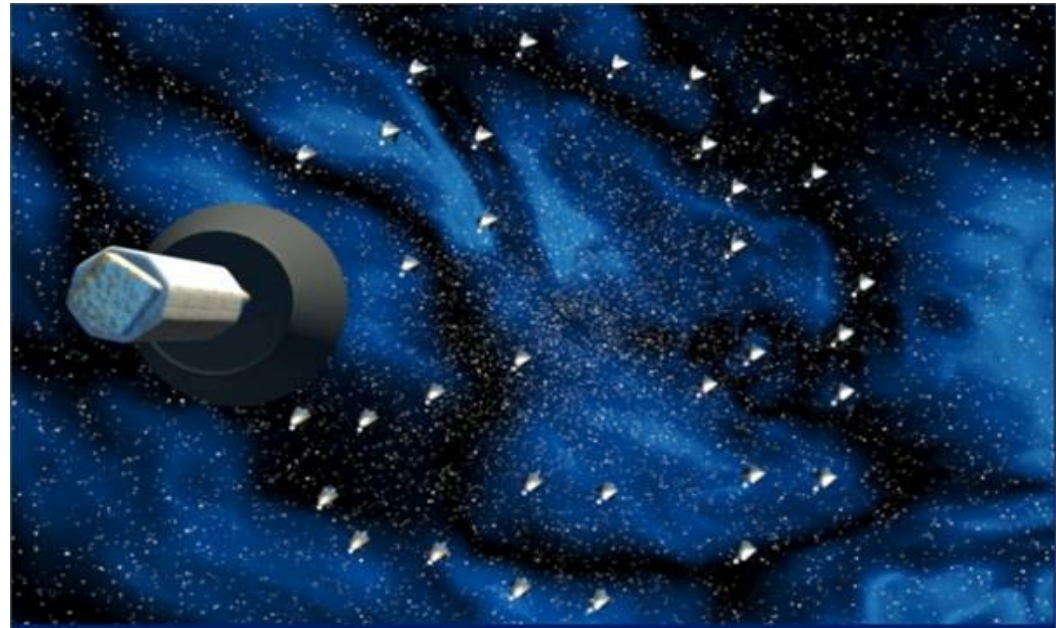
Team project #2

Planet Surface imager

Large baseline space interferometer – each telescope equipped with a coronagraph to suppress starlight

Science goals:

- Map exoplanet surfaces (ocean/ground/clouds)
- Derive physical characteristics (diameter, albedo)
- Identify life (vegetation ?)



Team project #3

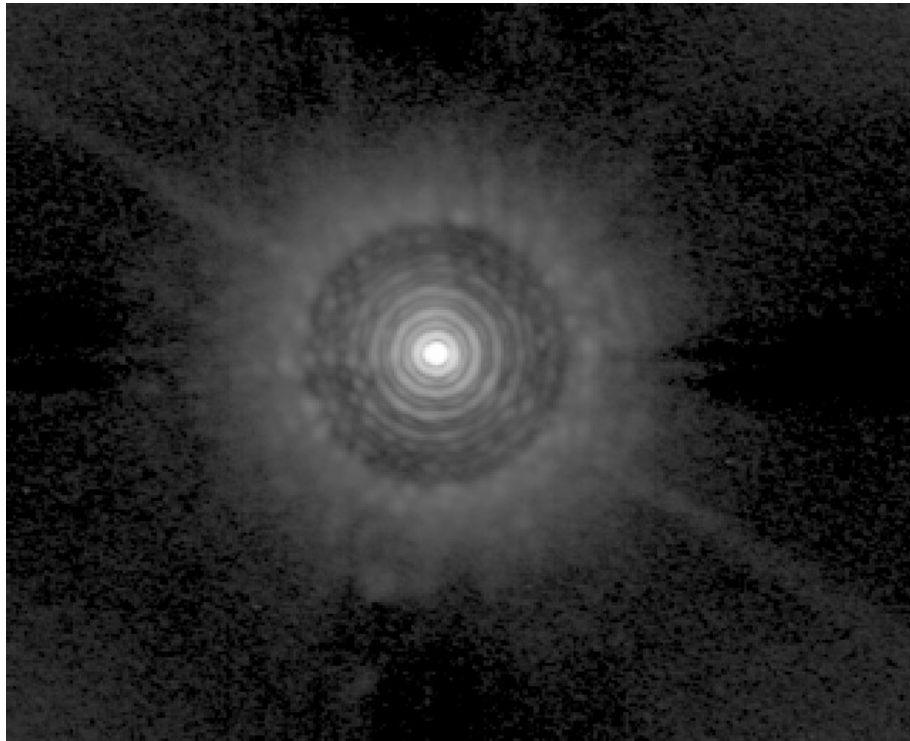
***Equip LBT with coronagraph
which coronagraph ?***

Other system improvements, required subsystems ?

Can you take advantage of dual aperture ?

Image giant planets in near-IR

Is it possible to see reflected light from some planets ?



LBT AO PSF