Day 2

Key Questions:

What are the gaps in SOFIA's capabilities to study the **Path to Life**, the **Birth of Planetary Systems**?

HD line at 112 μ m to measure disk masses

High-resolution spectroscopy from ~30 to 115 μm for hydrides, Si II, water

Better mid-IR medium-resolution spectroscopy for ices and dust features





Considerations

- HD detections of nearby disks required hours with Herschel. How many disks can SOFIA detect? Can we detect extended HD emission from molecular cores/clouds?
- Imaging seems to be unimportant for disks...but interesting for ejecta.
- High-resolution spectroscopy and medium-resolution spectroscopy have very different scientific objectives.





Day 2

Key Questions:

What are the gaps in SOFIA's capabilities to study the **Birth and Death Planetary Systems**? Better ejecta monitoring and imaging Better far-IR high-resolution spectroscopic imaging Better polarization imaging Better broad-band SED monitoring





Considerations

- HD detections of nearby disks required hours with Herschel. How many disks can SOFIA detect? Can we detect extended HD emission from molecular cores/clouds?
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