
SatMeet2 - Mission Concepts and Measurement Requirements for a Future Far-Infrared Space Mission

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Abstract

The quest to understand how habitable conditions arise during the process of planet formation is expected to be a major science driver for a future far-IR mission, such as the "Far-IR Surveyor Mission" in NASA's Astrophysics Roadmap. This satellite meeting was intended to serve as an opportunity for the participants to learn about concepts for the Far-IR Surveyor, and to learn what is technically feasible and affordable in a mission that could begin in the 2020s; and it also served as an opportunity for the participants to discuss measurement requirements for the mission, including angular resolution, spectral resolution, and sensitivity. Imaging and learning the spatial distribution of gaseous and frozen water in nascent planetary systems is a key objective.

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