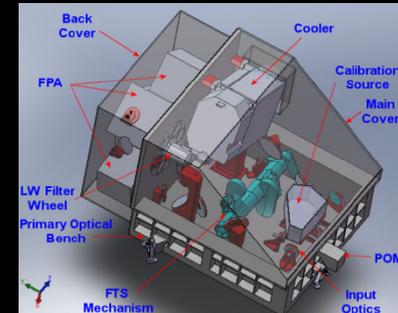
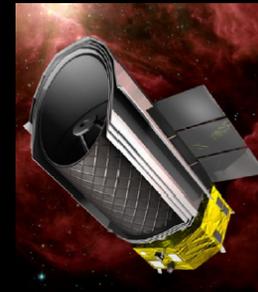


Exoplanetary systems with SAFARI: A far-IR imaging spectrometer for SPICA



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ESA Cosmic Vision 2015-2025

JAXA-led SPICA Mission: mid- and far-IR cooled (~6 K) space telescope (D~3.2m)

SAFARI instrument: far-IR imaging-FTS

- Wavelength coverage of ~34-210 μ m
- Field of view of ~2' x 2'
- Spectroscopy (R~2,000 @ 100 μ m) & photometry

Science questions in the field of **exoplanets** and **planet formation** with **SAFARI**:

- far-IR **photometric excesses** (dusty disks!).
- Protoplanetary disks: from gas to **"snow lines"**.
- Exoplanet **transits**
- Searching for **spectral signatures** of transiting exoplanets (water vapor, HD, biomarkers...).

On behalf of the **SPICA/SAFARI consortium**

