

Far-IR Surveyor Study

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Dave Leisawitz
NASA Goddard Space Flight Center

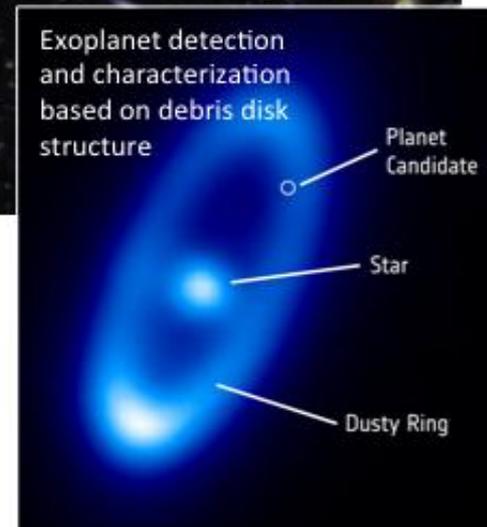
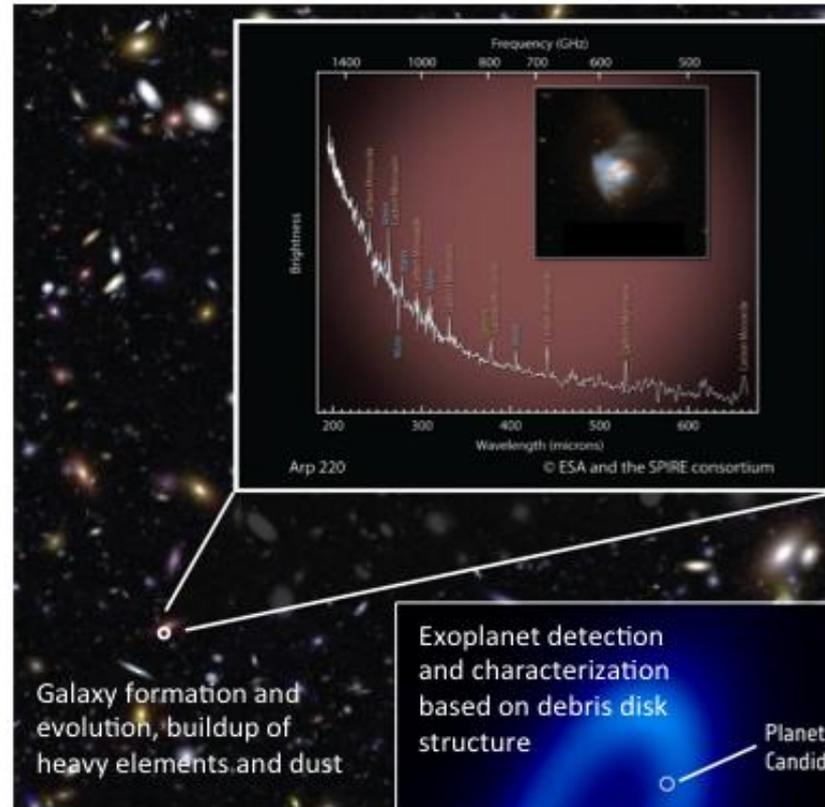
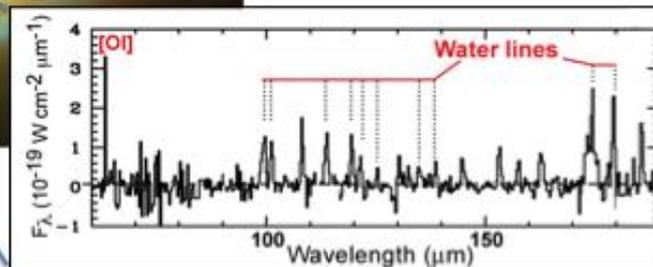
What is the Far-IR Surveyor?



- ◆ Comes from the NASA Astrophysics Roadmap, Enduring Quests, Daring Visions
- ◆ "Surveyor" does not mean it surveys the sky
- ◆ Relative to Herschel, the Roadmap envisions a Far-IR Surveyor mission that provides large improvements in sensitivity, angular resolution, and spectroscopic capability

Example: How do the conditions for habitability arise during the planet formation process?

Your favorite "killer app"?



- ◆ This is a community-led study, and you have an opportunity to shape the future – apply to serve on the Science and Technology Definition Team (STDT)
- ◆ We will prepare a scientifically compelling, executable mission concept for presentation to the Decadal Survey
- ◆ The mission architecture is not predetermined – the STDT’s Design Reference Mission will lead to an architecture choice and notional concept parameter definition
- ◆ Current best understanding of technology needs summarized in the Cosmic Origins Program Annual Technology Report at <http://cor.gsfc.nasa.gov/technology/>

How can you get involved?



- ◆ Apply for membership in the Science and Technology Definition Team (STDT)
 - <http://science.nasa.gov/astrophysics/2020-decadal-survey-planning/>
- ◆ Participate through the Far-IR Science Interest Group (SIG)
 - <http://cor.gsfc.nasa.gov/sigs/sig1.php>
- ◆ Contact me at David.T.Leisawitz@nasa.gov or Kartik.Sheth@nasa.gov, or find us at this meeting