

SOFIA Instrument Roadmap

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Outline

- Motivation for Instrument Roadmap
- SOFIA's Science Mission
- SOFIA Instruments

Motivation for SOFIA Instrumentation Roadmap

- How did we get here?
 - HIRMES development on SOFIA was terminated in April 2020 due to cost, technical, and schedule risks
 - HIRMES science is valuable to the community. NASA HQ has requested a detector development proposal from the HIRMES team – to be funded external to the SOFIA Project
- SOFIA Project is requested to develop a Roadmap for future instrumentation – due September 30, 2020 to NASA HQ
 - Upgrades, new instrument concepts, re-start of HIRMES in the future
 - Plan for 3-5 years; vision for 5-10 years
 - Seeking community's input – the SOFIA science center is leading this effort

NASA's expectation for this Roadmap

- SOFIA is in the extended mission phase – enhancing scientific productivity and producing impactful science are primary goals
- Keep SOFIA scientifically relevant by investing in upgrades and new capabilities that will allow us to
 - Address the most pressing needs of the astrophysics community
 - Pursue strong synergies with other NASA missions and observatories
 - Expand SOFIA's discovery space
 - Grow SOFIA's community
 - Broaden SOFIA's influence and impact

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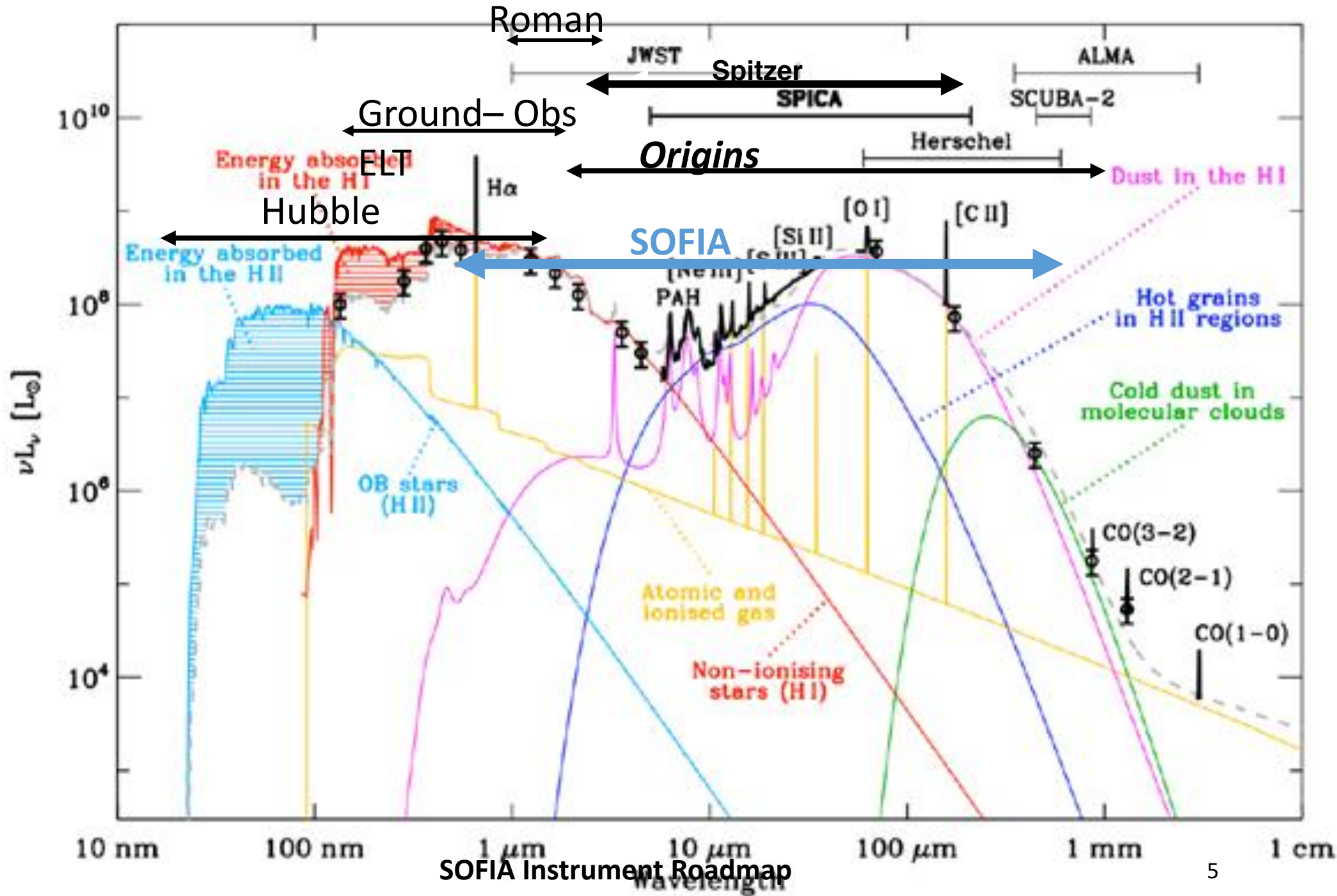
SOFIA Project Scientist

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SOFIA Program Scientist at NASA HQ

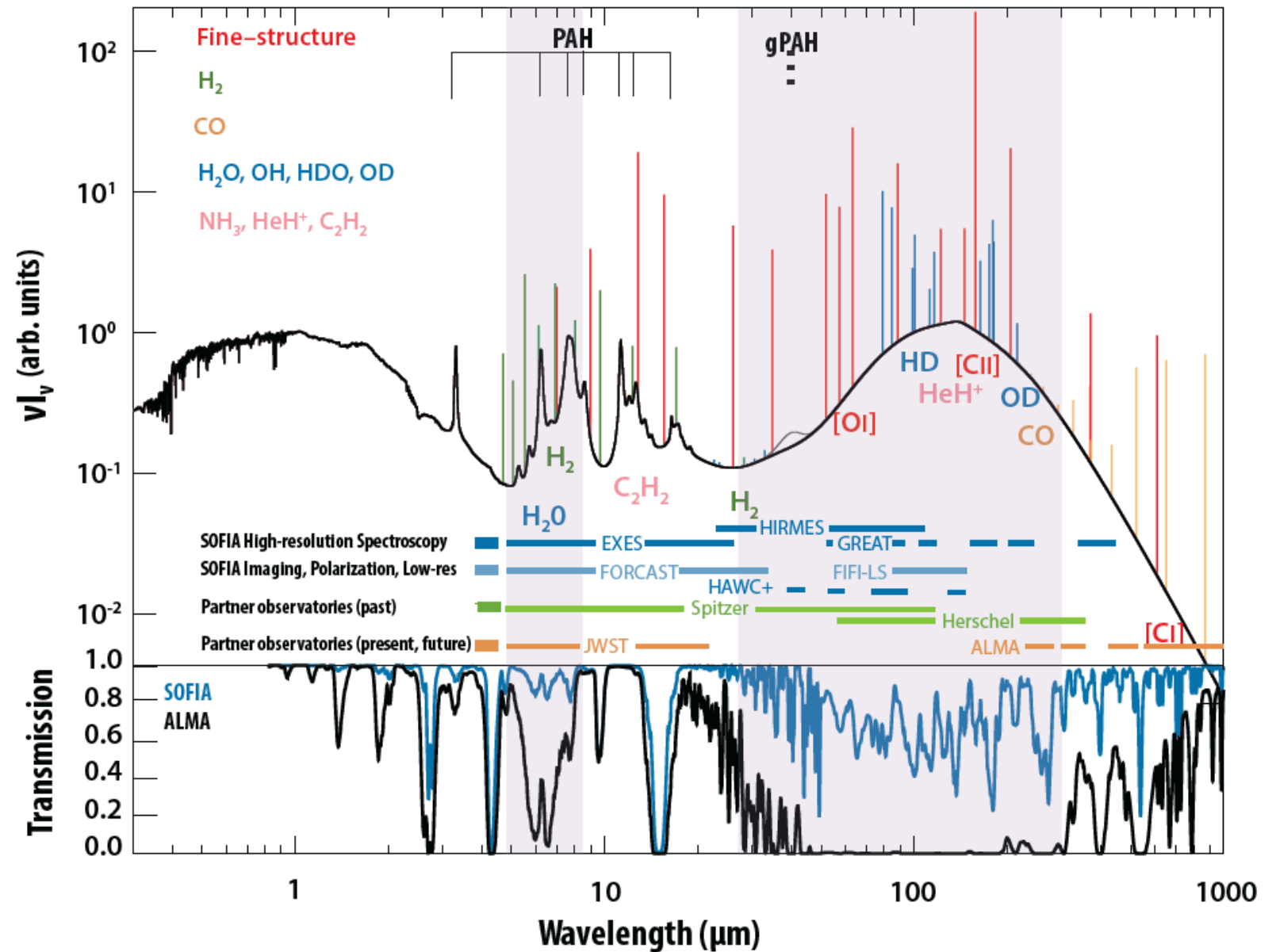
SOFIA's Science Mission

- **Emphasize Science, Science, Science**
- Science must drive the decisions for SOFIA's future instrumentation
- SOFIA holds a critical and unique science capability for astronomers

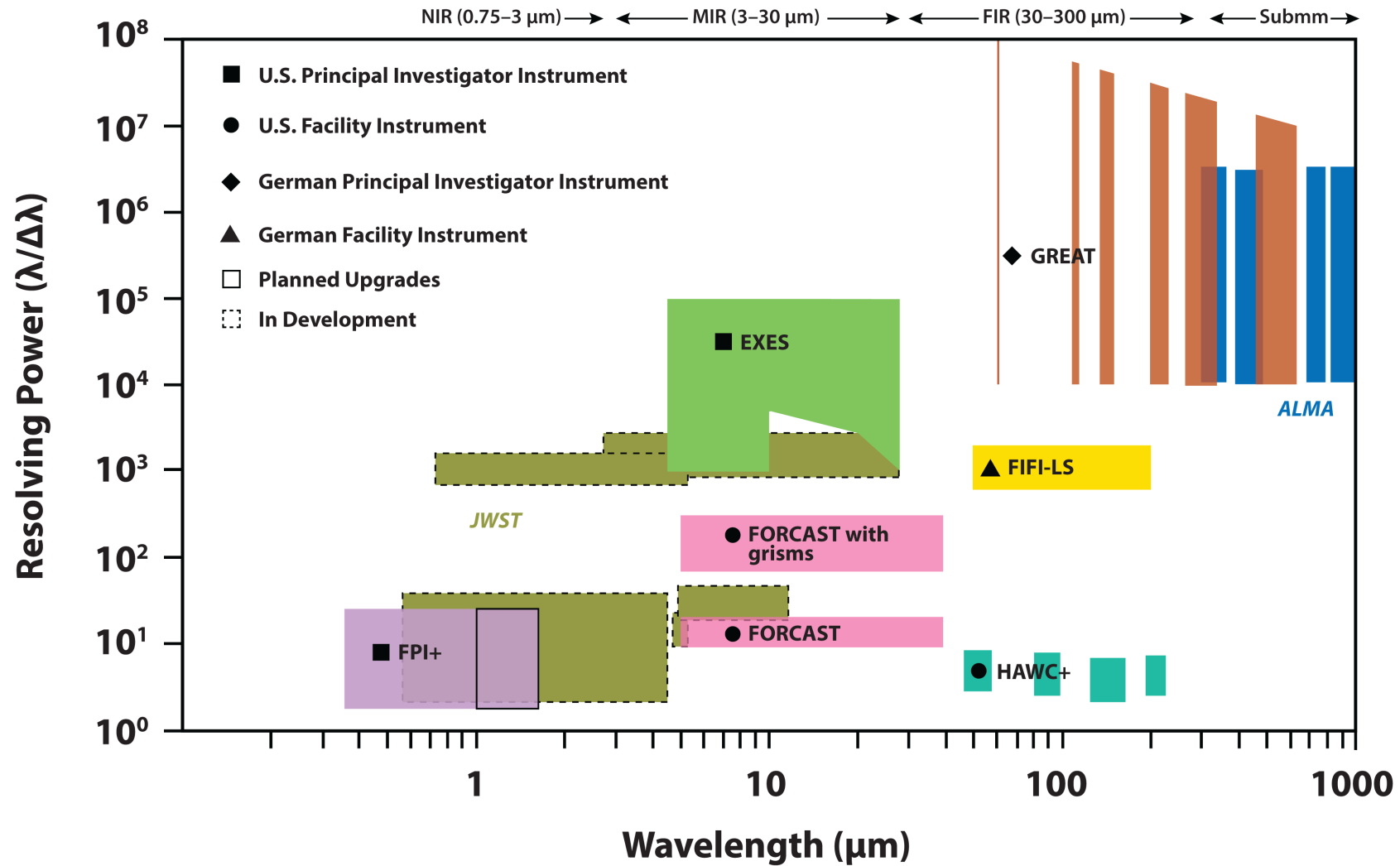


SOFIA Instrument Roadmap

SOFIA's Science Capability



The SOFIA Instruments



Questions?

The SOFIA Instruments

