

The Space Terahertz Observatory (STO): A 10-meter-class Far-Infrared Telescope for Origins Research

Christopher K. Walker, Craig Kulesa, Erick Young (University of Arizona)
David Hollenbach (NASA Ames Research Center)
T. G. Phillips, Sander Weinreb (Caltech Institute of Technology)
William Langer, Imran Mehdi, Harold Yorke (Jet Propulsion Laboratory)
Gary Melnick (Smithsonian Astrophysical Observatory)
Paul Goldsmith, Gordon Stacey (Cornell University)
David Fisher, David Glaister (Ball Aerospace)
Daniel Lester (University of Texas)
Mark Wolfire (University of Maryland)
Jürgen Stutzki (University of Cologne)

1 Scientific Investigation

1.1 Overview

Here we describe the scientific motivation and technology for a 10-meter-class Space Terahertz Observatory (STO) (Figure 1). STO would 1) conduct origin studies of planets, stars, and molecular clouds; 2) trace the life cycle of the Interstellar Medium (ISM) and star formation rate throughout the Galaxy; 3) determine the deuterium abundance in nearby molecular clouds and Galactic Center; and 4) observe the distribution of atomic and molecular gas in nearby and distant galaxies. STO will achieve these goals through high spectral and angular resolution observations of C, O, N, HD, and H₂O lines in the far-infrared. The science goals of STO can be achieved either through a dedicated mission or by implementing heterodyne instrumentation on SAFIR and extending its operational lifetime. STO science objectives are closely aligned with many of those found in the *Origins Roadmap* and drive the creation of a new generation of heterodyne instrumentation that benefits directly from technologies developed for the Herschel HIFI instrument.

Primary Mirror Diameter	9.0m
Angular resolution	1.7'' – 16''
Spectral resolution	$\lambda/\Delta\lambda = 10^6$
Wavelength range	60 – 540 μm
# of spectroscopic pixels	288
Lifetime	>5 yr
Orbit	L2

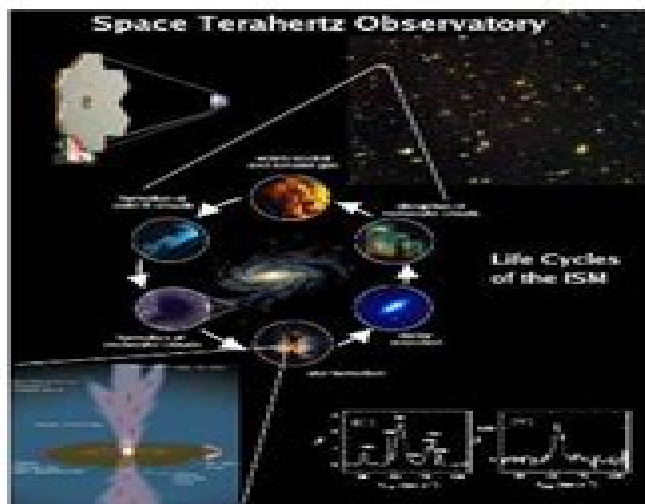


Figure 1: The Space Terahertz Observatory will provide a powerful probe of our cosmic origins: the evolution of galaxies, stars, planets, and the chemical elements of life.

1.2 Impact on Origins Research

STO addresses all major enterprise objectives in the 2003 *Origins Roadmap*:

- A. Understanding how today's Universe of galaxies, stars and planets came to be. By exploring star for-

Space Research And Technology Proceedings Of Symposia

David Kirk



[illegible]

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Space Research And Technology Proceedings Of Symposia**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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