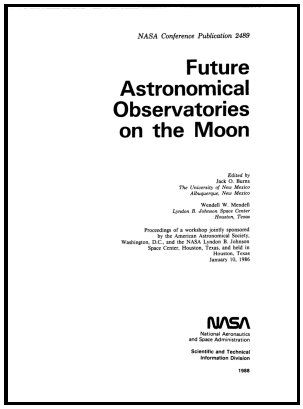
Future astronomical observatories on the moon - proceedings of a workshop

National Aeronautics and Space Administration, Scientific and Technical Information Division - Astronomical observatories on the moon



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A lunar far

Licia Verde graduated from the University of Padova 1996 and defended her PhD thesis at the University of Edinburgh in 2000.

Astronomical observatories on the moon

The purpose of this paper is to exhibit the advantages and limitations to infrared astronomical observations from the moon. FARSIDE would also measure the Dark Ages global 21-cm signal and provide a pathfinder for power spectrum measurements.

Infrared astronomy from the moon

He observed mainly from Mauna Kea in Hawaii, one of the best IR sites, with the Canada-France Hawaii Telescope, planetary and stellar atmospheres, star forming regions and the Galactic Center.

List of proposed space observatories

Finally, part 7 is a summary and statement of conclusions, with suggestions for future science and engineering studies. Just as the proposed Edison spacecraft primary mirror is expected to reach temperatures around 40 K, so also large lunar primary mirrors might be expected to reach temperatures in that range, making the zodiacal glow the main source of noise at wavelengths shortward of 25 μm. Measuring the HI matter power spectrum at redshifts above ~30 avoids complications with astrophysical processes like reionisation and galaxy formation.

Infrared astronomy from the moon

He has two research lines: strong gravitational lensing and 21-cm Cosmology.

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Observing the latter, however, requires space-based radio interferometry on a massive scale. We will search for elusive clues on the nature of the infinitesimal fluctuations created in an inflationary epoch from which all structure in the universe emerged.

Astrophysics from the moon; Proceedings of the Workshop, Annapolis, MD, Feb. 5

However, due to the enormous cost of such a project, its pertinence must be examined. Last unexplored wavelength window Mario was followed by Heino Falcke ASTRON, Netherlands who gave more details on the value of the Moon as a site for low-frequency radio astronomy — the last unexplored wavelength window into the universe.

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