Future astronomical observatories on the moon - proceedings of a workshop

National Aeronautics and Space Administration, Scientific and Technical Information Division - A lunar far

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Astronomy from the Moon

Jean-Pierre Maillard, director of research emeritus from CNRS at Institut d'Astrophysique de Paris, is a specialist in infrared astronomy from ground and from space through the development of high resolution Fourier transform spectrometers.

A lunar far

One such potential beneficiary is observational astronomy and this was the subject of a Specialist Discussion Meeting held in the new RAS Lecture Theatre on Friday 14 December 2007. Leah Morabito is an Assistant Professor of Astronomy at Durham University, with research interests in how super-massive black holes that drive active galactic nuclei can impact galaxy evolution from the smallest to largest scales.

Orbits for radiatively cooled space telescopes

He discussed the possible impact on lunar radio astronomy of the lunar exosphere, local dust environment, surface regolith properties, and terrestrial and solar interference.

News & Events

But thermal radiation from optical components and stray radiation from the lunar environment, just outside the light path, tend to lessen that advantage, except in narrow-spectral-band spatial interferometry, in which only the radiation in individual spectral lines is mapped, and broad-band thermal emission can be e effectively filtered out. Finally, Giovanna noted the possible value of the Moon as a site for future interferometric instruments that might one day provide spatially resolved images of extrasolar planets.

Future Astronomical Observatories on the Moon

From 2014—17, Burns served as senior Vice President of the American Astronomical Society. This would feed forwards to the first interferometer through a network of antennas.

Orbits for radiatively cooled space telescopes

Detecting such feeble radio signal with enough resolution, however requires an exceptionally 'dark' and quiet location and a large enough telescope.

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