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Faculty

JACQUELINE HEWITT

Professor and Director, Kavli Institute for Astrophysics & Space Research



Name: Jacqueline N. Hewitt

Title(s): Professor of Physics

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Related Links:

[Jacqueline Hewitt's Home Page](#)

["Hewitt Takes Control at the Center for Space Research"](#)
(MIT News Office, January 23, 2002)

[MIT Kavli Institute for Astrophysics & Space Research](#)

Area of Physics:

[Cosmology: Radio](#)

Research Interests

Professor Hewitt's research interests are focused upon applying the techniques of radio astronomy, interferometry, and image processing to basic research in astrophysics and cosmology. Current topics of interest are observational signatures of the epoch of reionization and the detection of transient astronomical radio sources.

Professor Hewitt is also interested in the development of new instrumentation and techniques for radio astronomy. She is currently involved in pathfinder experiments for low frequency radio telescopes with large aperture, optimized for certain cosmological studies.

In particular, she is part of a collaboration of U.S., Australian, Indian, and New Zealand universities and research institutions that is building the Murchison Widefield Array in radio-quiet Western Australia.

Biographical Sketch

Appointed Director of [MIT's Kavli Institute for Astrophysics and Space Research](#) in January 2002, Professor Hewitt began her career at MIT in 1986 as a postdoctoral associate in the

Very Long Baseline Interferometry group at the [MIT Haystack Observatory](#). After a one-year sojourn as a research staff member in the Department of Astrophysical Sciences at Princeton University, she returned to MIT in 1989 as an Assistant Professor of physics.

Selected Publications

[List of Professor Hewitt's recent publications, available in PDF, PostScript, and other formats.](#)

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