General Relativity and Quantum Cosmology

Testing Relativistic Gravity and Detecting Gravitational Waves in Space

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For testing gravity and detecting gravitational waves in space, deepspace laser ranging using drag-free spacecraft is a common method. Deep space provides a large arena and a long integration time. Laser technology provides measurement sensitivity, while drag-free technology ensures that gravitational phenomenon to be measured with least spurious noises. In this talk, we give an overview of motivations and methods of various space missions/proposals testing relativistic gravity and detecting gravitational waves, and refer to various references.

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