



## Preliminary Optimal Orbit Design for the Laser Interferometer Space Antenna

By Steven P. Hughes

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The Laser Interferometer Space Antenna (LISA) is being designed to detect and study in detail gravitational waves from sources throughout the Universe such as massive black hole binaries. The conceptual formulation of the LISA space-borne gravitational wave detector is now well developed. The interferometric measurements between the spacecraft remain one of the most important technological and scientific design areas for the mission. Our work has concentrated on developing the interferometric technologies to create a LISA-like optical signal and to measure the phase of that signal using comm @inproceedings{Hughes2002PreliminaryOO, title={Preliminary Optimal Orbit Design for the Laser Interferometer Space Antenna (LISA)}, author={Steven Patrick Hughes and Frank H. Bauer}, year={2002} }. Steven Patrick Hughes, Frank H. Bauer. In this paper we present a preliminary optimal orbit analysis for the Laser Interferometer Space Antenna (LISA). LISA is a NASA/ESA mission to study gravitational waves and test predictions of general relativity. The nominal formation consists of three spacecraft in heliocentric orbits at 1 AU and trailing the Earth by twenty degrees. This configuration was cho Laser Interferometer Space Antenna. LISA is a space-based gravitational wave observatory building on the success of LISA Pathfinder and LIGO. Led by ESA, the LISA mission is a collaboration of ESA, NASA, and an international consortium of scientists.Â LISA Pathfinder operated from a vantage point in space about 1.5 million km from Earth towards the Sun, orbiting the first Sun-Earth Lagrangian point, L1. Credit: ESA - C.Carreau. LISA Pathfinder Exceeded Expectations.