



Albert Einstein Institute Hannover

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Talk



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Ph.-D. student of Leibniz Universität Hannover, working at the "Max Planck Institute for Gravitational Physics" on inter-spacecraft communication for LISA.

When and where

Hunting Gravitational Waves in Space

Picometer Accuracy for LISA



The Laser Interferometer Space Antenna (LISA) is a joint ESA/NASA mission to observe gravitational waves. One important noise source in the LISA phase measurement will be on-board reference oscillators. An inter-spacecraft clock tone transfer chain will be necessary to remove this non-negligible phase noise in post processing.

I will briefly introduce gravitational wave astronomy, describe the LISA mission, talk about the importance of the clock tone transfer chain, show setups to detect excess phase noise introduced by different components and present some recent experimental results.

There will be time for questions and discussions.
I will be at PMO from DEC 8 to DEC 10.

