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LISA: A gravitational wave observatory in space

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The LISA (Laser Interferometric Space Antenna) is an ESA/NASA space mission with the aim to observe gravitational waves in space at lower frequencies than it is possible with Earth bounded detectors.

It will thus be able to observe, e.g., the coalescence of supermassive black holes, which are present in the galactic centres.

I will describe the scientific objectives of the mission and the some technical issues, some of which have been already tested with the very successful LISA Pathfinder mission, which started in 2015. LISA should be launched in the mid '30.

Primary author: JETZER, Philippe (University of Zurich)

Presenter: JETZER, Philippe (University of Zurich)

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