

## Third MODE Workshop on Differentiable Programming for Experiment Design



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### Challenges of the LISA mission to detect gravitational waves from Space

*Monday 24 July 2023 15:00 (20 minutes)*

LISA (Laser Interferometer Space Antenna) is a mission to detect gravitational waves from space, in the low-frequency band, not accessible from the ground but with a very rich science potential. LISA is a large-class mission of the European Space Agency (ESA), with a significant participation of NASA, that was selected on 2017, after the success of the LISA Pathfinder mission, and is expected to be launched around 2034. In this talk, after summarizing the main characteristics of the mission and its science, and will describe some of the most important challenges the mission has to face for successful mission operations and science exploitation.

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