

## LISA Canada Workshop



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# LISA Detector Overview

*Tuesday, 27 April 2021 08:45 (45 minutes)*

In this talk we address the measurement concept and the main experimental challenges for creating LISA, the first orbiting gravitational wave observatory, focusing on the the mHz frequency band that is only accessible from space. The task of using laser interferometry to measure the gravitational wave tidal deformation of a constellation of free-falling test masses is discussed, both in the context of heritage from the single-spacecraft LISA Pathfinder “Einstein geodesic explorer” mission and for the unique remaining challenges to be met by the full 3-spacecraft LISA observatory.

Chair: Daryl Haggard (McGill U)

Co-Chair: Scott Oser (UBC)

**Presenters:** MONDIN, Linda (ESA); WEBER, William Joseph (University of Trento)

**Session Classification:** LISA Detector Overview