



# Advances in Precision Temperature Sensing for Space Missions

## Tuesday 14 April 2026

**Technical presentations: Precision temperature measurement for ESA Missions (10:00 - 10:30)**

-Conveners: J. Etchells

**Technical presentations: LISA Pathfinder temperature diagnostics: the origin (11:00 - 11:30)**

-Conveners: J. Ramos-Castro

**Technical presentations: LISA Diagnostics acquisition and control unit (11:30 - 12:00)**

-Conveners: A. Gimenez Bravo

**Technical presentations: ICU–TCU Interface Emulator for Temperature Acquisition during Telescope Assembly Tests of the ARIEL space mission (12:00 - 12:30)**

-Conveners: Pierpaolo Merola

**Technical presentations: Cryogenic Thermal Monitoring and Control System for LiteBIRD and FOSSIL space missions. (12:30 - 13:00)**

-Conveners: Jose Javier Díaz García

**Technical presentations: LISA Enhanced Temperature Subsystem (LETS) Test Bench: Sensing Low-Frequency Thermal Fluctuations (14:30 - 15:00)**

-Conveners: J. Salvans-Tort

**Technical presentations: High-Precision Resistive Temperature Sensing: Lessons from LISA Enhanced Temperature Subsystem (LETS) (15:00 - 15:30)**

-Conveners: D. Roma

**Technical presentations: Pushing the Frontiers of Optical Sensing: Advanced White Light Interferometry for Extreme and Space Environments (15:30 - 16:00)**

-Conveners: P. Robalinho

# Wednesday 15 April 2026

**Technical presentations: Integrated Photonics: Silicon based Photonics at IMB CNM (09:00 - 09:30)**

-Conveners: J. Faneca

**Technical presentations: Technology in Superconducting and Hybrid Quantum chips at the IMB-CNM-CSIC (09:30 - 10:00)**

-Conveners: G. Rius

**Technical presentations: Spherical probe for the thermophysical characterization of regoliths for planetary exploration using frequency methods (10:00 - 10:30)**

-Conveners: C. Rosero Pozo

**Technical presentations: Differential temperature sensing at  $\mu$ K precision for electrical substitution radiometers (10:30 - 11:00)**

-Conveners: F. Reinhard

**Technical presentations: Thermal experiments with high-finesse optical cavities (11:30 - 12:00)**

-Conveners: J. Sanjuan

**Technical presentations: Precision Thermometry using Whispering-Gallery-Mode Resonators (12:00 - 12:30)**

-Conveners: V. Gualani

**Technical presentations: Development of Phase Shifted Fiber Bragg Grating (PS-FBG) sensor with interferometric interrogation technology (12:30 - 13:00)**

-Conveners: L.K Cheng