

Session Program

17-18 May 2022

**STE-QUEST Virtual Workshop: An M-class
Cold Atom mission to probe gravity, dark
matter and quantum mechanics**

Mission Concept Session

Tuesday 17 May

13:45

Mission Concept Session: Review of mission concept, highlighting the TRL status of each subsystem

Session

13:45-14:15 Mission Overview

Speaker

Naceur Gaaloul

14:15

14:15

Mission Concept Session: Lessons from other missions

Session

14:15-14:35 MICROSCOPE: Latest results and lessons learned

Speaker

Gilles Metris

14:35-14:55 LISA-Pathfinder:Platform stability and AOCS performance

Speaker

Henri Inchauspé

14:55

Mission Concept Session: Payload subsystems - focus on TRLs

Session

14:55-15:15 Physics Package

Speaker

Christian Schubert

15:15-15:35 Laser System

Speaker

Baptiste BATTELIER

15:35-15:55 Electronic Unit

Speaker

Kai Bongs

15:55-16:15 Data and Diagnostics Subsystem

Speaker

Miquel Nofrarias

16:15

16:45

Mission Concept Session: Synergies with other missions & terrestrial projects

Session

16:45-17:05

Cold Atom Universality Free Fall test on the ground and its limitations

Speaker

Mark Kasevich

17:05

17:05

Mission Concept Session: Discussion

Session

17:05-17:35

Discussion

17:35

Wednesday 18 May

10:00

Mission Concept Session: Synergies with other missions & terrestrial projects -- continue from yesterday

Session

10:00-10:20 **Synergies between Physics and Earth Observation missions**

Speaker

Olivier Carraz

10:20