



## GRASIAN

Franco-Finnish Workshop



Research topic: **Chemistry**

Place: **Turku**

Institutions involved: **Institut Laue Langevin (ILL Grenoble), Laboratoire Kastler Brossel (LKB Paris), Stefan Meyer Institute (SMI Vienna), University of Turku (UTU Turku), Eidgenössische Technische Hochschule (ETH Zürich).**



Dates: **06/06/2022** to **08/06/2022**

Program: **Maupertuis Programme**

## PRESENTATION

The GRASIAN (Gravity Spectroscopy and Interferometry with Atoms and Neutrons) workshop focused on the topics related with the research with the lightest neutral particles/atoms at lowest kinetic energies, nearly at rest. The particles in particular are hydrogen and antihydrogen, neutrons, muonium and positronium. Their quantum properties in the field of gravity, Casimir-Polder and Van-der-Waals potentials, and precise optical and microwave spectroscopy were covered as well.

## ACTIVITIES AND OUTCOMES

Total number of participants was 30, including 16 visitors, 8 local (UTU), and 8 remote participants from 8 countries. The key-note speakers were [Mike Hayden](#) (UBC, Canada), [Claudio Lenz Cesar](#) (Federal University of Rio de Janeiro, Brasil), [Thomas Lindvall](#) (VTT MIKES, Finland), [Thomas Udem](#) (MPQ, Germany), [Serge Reynaud](#) (LKB, Paris), [Ilya Averbukh](#), (Weizmann Institute, Israel). An article in the local newspaper "Turun Sanomat" was published on 9.06.2022 with short description of the workshop.