



2ND MIMOSA COLLABORATION MEETING

Trento, August 31- September 01, 2023

Organizers

Gianluca **Lattanzi** (University of Trento, Italy)

Simone **Taioli** (ECT*, Italy)

Angela **Vella** (University of Rouen, France)

Abstract

Cryo-electron microscopy and tomography have been among the greatest achievements in biological imaging, but these techniques suffer from insufficient chemical resolution. The ultimate goal of MIMOSA is to provide an alternative to tomography at the nanoscale with a high chemical resolution for biological and medical systems, based on Tomographic Atom Probe (TAP). MIMOSA aims to prototype a new TAP triggered by intense terahertz (THz) pulses that are stable at high repetition rates and exhibit versatile and tailored properties.

Speakers

Matteo **De Tullio** (CNRS), Gustav **Eriksson** (Chalmers University), Ammar **Hideur** (CNRS-CORIA - University of Rouen), Cristian **Kusko** (IMT Bucharest), Anna **Martinez** (University of Naples), Tommaso **Morresi** (ECT*), Giovanni **Novi-Inverardi** (ECT*), Domenico **Paparo** (CNR-ISASI), Rebeca **Tudor** (IMT Bucharest), Angela **Vella** (University of Rouen)

Director of ECT*: Professor Gert Aarts