

# Nanoscale Transport Phenomena



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Welcome

*Thursday, November 30, 2023 2:00 PM (15 minutes)*

**Presenter:** MASCIOVECCHIO, Claudio (Elettra Sincrotrone Trieste)

**Session Classification:** Opening

Contribution ID: 2

Type: **not specified**

## Dynamic poster presentation

*Thursday, November 30, 2023 3:20 PM (30 minutes)*

**Session Classification:** Opening

Contribution ID: 3

Type: **not specified**

## **Experimental facilities at FERMI**

*Thursday, November 30, 2023 2:50 PM (30 minutes)*

**Presenter:** BENCIVENGA, Filippo (Elettra-Sincrotrone Trieste)

**Session Classification:** Opening

Contribution ID: 4

Type: **not specified**

## **Exploring the role of ultrafast energy transport in nanoscale magnetization switching**

*Thursday, November 30, 2023 4:20 PM (35 minutes)*

**Presenter:** VON KORFF SCHMISING, Clemens (Max Born Institute Berlin)

**Session Classification:** Spin transport

Contribution ID: 5

Type: **not specified**

## **First-principles-based investigations of optically induced ultrafast demagnetization**

*Thursday, November 30, 2023 4:55 PM (35 minutes)*

**Presenter:** OPPENEER, Peter (Department of Physics and Astronomy, Uppsala University, Sweden)

**Session Classification:** Spin transport

Contribution ID: 6

Type: **not specified**

## **Picosecond spin emission from antiferromagnets**

*Thursday, November 30, 2023 5:30 PM (35 minutes)*

**Presenter:** CICCARELLI, Chiara (University of Cambridge)

**Session Classification:** Spin transport

Contribution ID: 7

Type: **not specified**

## **Single femto-second laser pulse to switch magnetization in a spintronic device**

*Friday, December 1, 2023 12:00 PM (35 minutes)*

**Presenter:** MANGIN, Stephane (Université de Lorraine)

**Session Classification:** Spin transport



Contribution ID: **8**

Type: **not specified**

## Discussion section

**Session Classification:** Spin transport

Contribution ID: 9

Type: **not specified**

## **Dynamic poster presentation**

**Session Classification:** Phonon transport

Contribution ID: 10

Type: **not specified**

## **The effect of echoes interference on phonon dynamics in a nanophononic SiN membrane**

*Friday, December 1, 2023 9:00 AM (35 minutes)*

**Presenter:** GIORDANO, Valentina (CNRS - ILM)

**Session Classification:** Phonon transport

Contribution ID: 11

Type: **not specified**

## **Ultrafast X-ray diffraction studies of energy transport at the nanoscale**

*Friday, December 1, 2023 9:35 AM (35 minutes)*

**Presenter:** BARGHEER, Matias (University of Potsdam and Helmholtz-Zentrum Berlin)

**Session Classification:** Phonon transport

Contribution ID: 12

Type: **not specified**

## **Investigating phonons and thermal transport by pump-probe spectroscopy**

*Friday, December 1, 2023 11:25 AM (35 minutes)*

**Presenter:** ABAD, Begoña

**Session Classification:** Phonon transport

Contribution ID: 13

Type: **not specified**

# Hypersound and heat transport in functional nanomembranes

*Friday, December 1, 2023 10:10 AM (35 minutes)*

**Presenter:** GRACZYKOWSKI, Bartlomiej (Adam Mickiewicz University in Poznan)

**Session Classification:** Phonon transport

Contribution ID: **14**

Type: **not specified**

## **Discussion section**

**Session Classification:** Phonon transport

Contribution ID: 15

Type: **not specified**

## **On the element-selectivity of core-level transient grating spectroscopy**

*Friday, December 1, 2023 1:45 PM (35 minutes)*

**Presenter:** CHERGUI, Majed (Ecole Polytechnique Fédérale de Lausanne)

**Session Classification:** Electron transport



Contribution ID: 16

Type: **not specified**

## **Lattice dynamics in 2D materials probed by time resolved soft X-ray spectroscopies at ELETTRA synchrotron**

*Friday, December 1, 2023 2:20 PM (35 minutes)*

**Presenter:** DELL'ANGELA, Martina (CNR-IOM)

**Session Classification:** Electron transport

Contribution ID: 17

Type: **not specified**

## **Imaging heterogeneity in light induced phase transition on the nano-femto scale**

*Friday, December 1, 2023 2:55 PM (35 minutes)*

**Presenter:** WALL, Simon (Aarhus University)

**Session Classification:** Electron transport

Contribution ID: **18**

Type: **not specified**

## **Best poster talk**

*Friday, December 1, 2023 3:50 PM (35 minutes)*

**Session Classification:** Closing

Contribution ID: 19

Type: **not specified**

## **Fonda-Fasella Award: Profiling metal organic/metal hybrid interfaces: photoemission orbital tomography as an identikit tool**

*Thursday, November 30, 2023 2:15 PM (35 minutes)*

**Presenter:** COJOCARIU, Iulia (Physics Department - Università degli Studi di Trieste, Trieste, Italy)

**Session Classification:** Opening

Contribution ID: **20**

Type: **not specified**

## Short break

**Session Classification:** Electron transport

Contribution ID: 21

Type: **not specified**

## Discussion section

*Friday, December 1, 2023 4:25 PM (1h 25m)*

**Session Classification:** Closing

Contribution ID: 22

Type: **not specified**

## Closing

*Friday, December 1, 2023 5:50 PM (10 minutes)*

**Session Classification:** Closing

Contribution ID: 29

Type: **not specified**

## Registration

*Thursday, November 30, 2023 12:00 PM (2 hours)*

**Session Classification:** Opening



Contribution ID: **34**

Type: **not specified**

## **Registration (for who will join the FERMI's visit)**

*Thursday, November 30, 2023 9:00 AM (30 minutes)*

**Session Classification:** Opening

Contribution ID: **39**

Type: **not specified**

## **Social dinner**

*Thursday, November 30, 2023 7:45 PM (2h 15m)*

**Session Classification:** Social dinner