

Workshop on Materials and Devices for Biomagnetism and Magnetometry

The aim of the workshop is to bring together researchers working in the field of magnetic devices and related materials to stimulate new ideas and directions in emerging applications of biomagnetism.

Attendance to this event is free-of-charge upon registration

When? Tuesday 16th April, 2024

Where? Online (platform and link will be communicated to registered participants)
Updates will be notified on X (Twitter) @OXiNEMS_Project

Program (The times indicated refer to the UTC+1 zone, Central European Time)

12:30 Openings - **Luca Pellegrino** (CNR-SPIN, Italy)

12:45 *New trends in MEG instrumentation: why we need new generations of magnetometers?*
- **Stefania Della Penna** (G. D'Annunzio University of Chieti and Pescara, Italy)

13:30 *Colour centres for magnetometry in bio- and life-sciences* - **Ilia Brev** (Technical University of Denmark (DTU), Denmark)

14:00 *Frequency modulated MEMS magnetometer using integrated permanent magnets and magnetic flux concentrators* - **Federico Maspero** (Politecnico di Milano, Italy)

14:30 - 15:00 COFFEE BREAK

15:00 *Recent advances in modeling ΔE -effect magnetic field sensors* - **Benjamin Spetzler** (Technische Universität Ilmenau, Germany)

15:30 *Topology optimized geometries in extraordinary magnetoresistive devices* - **Thierry Désiré Pomar** (Technical University of Denmark (DTU), Denmark)

16:00 *Evolving Magnetoelectric Field Sensing from Magnetostrictive Composites* - **Lukas Zimoch** (University of Kiel, Germany)

16:30 *The OXiNEMS project: results and perspectives* - **Luca Pellegrino** (CNR-SPIN, Italy)

17:00 *Discussions and closing remarks*

TO REGISTER: www.oxinems.eu



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info@oxinems.eu



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