

## WOPM 2022 Programme of Talks

### Sunday 28<sup>th</sup> August

9.00-9.10	Welcome	
9.10-9.40	Svenja Knappe	Towards a commercial high-density full-head OPM-MEG system
9.40-10.00	Vishal Shah	Hybrid Scalar-Triaxial Atomic Magnetometer
10.00-10.20	Niall Holmes	The matrix coil: reconfigurable active shielding
10.20-10.40	Rachel Dawson	Compact Portable SERF Sensor for MEG
10.40-11.10	Coffee Break	
11.10-11.40	Thomas Coussens	Open circuit current density imaging of lithium-ion batteries using SERF OPMs
11.40-12.00	Katrijn Everaert	A tabletop Optically Pumped Magnetometer setup for the monitoring of magnetic nanoparticle clustering with Thermal Noise Magnetometry
12.00-12.20	Michael Tayler	Mass-producible miniature atomic vapor sensors
12.20-12.40	Rujie Li	Enhancing the sensitivity of an NMOR magnetometer
12.40-15.00	Lunch and Posters	
15.00-15.30	Benjamin Maddox	Electromagnetic Induction Imaging with Atomic Magnetometers in Real-World Scenarios
15.30-15.50	Philipp Rößner	A highly drift-stable atomic magnetometer for fundamental physics experiments
15.50-16.10	Allan McWilliam	Accurate and precise magnetometry using Cs MEMS cells using a dual-beam configuration
16.10-16.40	Coffee Break	
16.40-17.00	Thanmay Menon	Rabi Vector Magnetometry Implemented with Hot Alkali Vapor
17.00-17.20	Siqi Liu	Low-temperature compact atomic vector magnetometer for highly sensitive and stable weak field detection
17.20-17.40	Yongqi Shi	Atomic vapor cell-based microwave spectrum analyzer with 1GHz instantaneous analysis bandwidth

### Monday 29<sup>th</sup> August

9.00-9.30	Etienne Labyt	Towards a whole head Helium OPM MEG system
9.30-9.50	Sarang Dalal	Fetal visual evoked responses measured with OPMs
9.50-10.10	Amaia Benitez Andonegui	OPM dynamic field compensation for evoked responses
10.10-10.30	Xu Wang	A study of alpha rhythm and sensorimotor cortex responses using optically-pumped magnetometers (OPMs)
10.30-10.50	Yulia Bezsudnova	Simulation Study of the performance of an OPM-MEG system in realistic conditions