Poster Session 1, Monday, 4 September, 19:30 h (CEST)

Bruno Fernando Abreu de Melo	**Single Nanoparticle Control on a Chip: Trapping, Detection, and Cooling**
Seyed Khalil Alavi	**Quantum Levitodynamics with a Photonic Crystal Nanocavity**
James Bateman	**Backaction Suppression in Levitated Optomechanics**
Ines Ben Yedder	**Optical Levitation of Nanoparticle in Engineered Non-linear Potentials**
Alexander Bott	**Light-matter Interaction with Single-photon Transitions for Sensing Beyond the Standard Model**
Igor Brandao	**Magnetically Levitated mm-Sized Helium-3 Spheres as an Optomechanical Platform for Free Quantum Rotations**
Quentin Deplano	**Towards Molecular Entanglement Control**
Alrik Durand	**Toward Spin-mechanical Coupling in Levitating 2D Material**
Matteo Fadel	**Macroscopic Quantum Test with Bulk Acoustic Wave Resonators**
Jonathan Gosling	**Novel Quantum Levitated Sensors for Directional Dark Matter Detection**
Alexey Grinin	**High Mass Matter-Wave Interference and Submicron Gravity Tests with Levitated Nanospheres**
Thiago Guerreiro	**Quantum Optomechanics of Gravitational Waves**

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Bas Hensen	**On-chip Diamagnetic Levitation and Cooling for Gravity Mediated Entanglement**
Jack Homans	**Demonstrating Optical and Magnetic Levitation in Space**
Sungkun Hong	**Hybrid Optomechanical Systems Consisting of Optically Levitated Nanoparticles and Silica Microtoroid Optical Cavity**
Yanhui Hu	**Structured Transverse Orbital Angular Momentum Probed by a Levitated Optomechanical Sensor**
Cyril Laplane	**Towards Absolute Cooling in Levitodynamics Using Optically Active Nanocrystals**
Monika Leibscher	**Controllability of Driven Quantum Rotors: A Graph-theoretical Approach**
Stefan Lindner	**Hollow-core Fiber Loading of Optically Levitated Nanoparticles into Ultra-high Vacuum**
Vojtěch Liška	**Cold Damping of Levitated Optically Coupled Nanoparticles**
Lukas Martinetz	**Surface-induced Decoherence and Heating of Charged Particles**
Miriam Martínez Flórez	**Cooling of Particles with Internal Degrees of Freedom**