



## Poster Session I – Monday 09 December 2019

Author	Title
Ruppert Laszlo	High-precision multiparameter estimation of mechanical force by quantum optomechanics
Klempt Carsten	Squeezing and entanglement in spinor Bose-Einstein condensates
Girit Caglar	Precision Josephson voltage source for mesoscopic physics
Olga Kozlova	Optomechanical sensors for nanoscaled and quantum thermometry
Constantin Florin Lucian	AC-Stark effect on the Zeeman energy levels of HD <sup>+</sup> : possible application to vector Terahertz electrometry
Ranjan Vishal	High sensitivity quantum-limited electron spin resonance
Peyruchat Léo	Spectroscopy of topological Josephson junction circuit
Ortolano Massimo	A fully digital bridge for the realization of the farad from the quantum Hall effect: progress report
Edouard Ivanov	Towards the generation of non-classical mechanical states using quantum electromechanics
Kurizki Gershon	Enhanced sensing resolution by quantum cooling and thermometry
Garbe Louis	Metrological quantum advantage with finite-size phase transition
Guo Yanliang	Quantized rotation of a superfluid annular gas
Beaufils Quentin	MIGA : a large scale atom interferometer for gravitational measurements
Bowden William	Cavity-enhanced non-destructive detection of atoms in a strontium optical lattice clock
Marzano Martina	A Kelvin bridge for resistance calibrations based on a graphene quantum Hall resistance standard: preliminary implementation
Robert-De-Saint-Vincent Martin	Shelving spectroscopy of the strontium intercombination line
Sbarra Samantha	Optomechanical sensing for virus identification through their mass and stiffness
Merlet Sébastien	Quantum Absolute Sensors for Gravity measurements
Cotxet Jérémie	Toward a compact cesium CPT clock using a dual-frequency VECSEL
Karimi Bayan	Thermometry based on proximity superconductivity for ultra-sensitive calorimetry
Dinani Hossein	Bayesian estimation for quantum sensing in the absence of single-shot detection
Mikhail Korobko	Quantum expansion of detection bandwidth in gravitational-wave observatories
Rodriguez Ramiro	A Mesoscopic Spectrometer Based on the Josephson Effect
Callegaro Luca	The EMPIR Project GIQS: Graphene Impedance Quantum Standard
Gawlik Wojciech	Field-Induced Narrowing and Broadening of a Magnetic Resonance in a Bichromatic Microwave Field
Zhou Xin	Characterization of electromechanically induced absorption and transparency in microwave optomechanical device
Hayat Alex	Semiconductor-Superconductor Bell-state Analyzers and Photon Entanglement Sources
Neergaard-Nielsen Jonas	Entanglement-enhanced distributed phase sensing

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