Quantum Sensors for HEP

Thursday, 27 April 2023

Hybrid town hall 1: Dark waves, sensor networks, interferometry - YQI Seminar Room (14:00 - 15:30)

time	[id] title	presenter
14:00	[35] The need for quantum sensors for HEP science	CHOU, Aaron
14:05	[36] Superconducting Nanowire Single Photon Detectors with Ultra-low energy threshold	SHAW, Matt
14:10	[37] Axion DM with low-threshold SNSPDs	PEÑA, Cristián
14:15	[38] Improvements to the LAMPOST Experiment	KOPPELL, Stewart
14:20	[39] Precision Timing and Scalable Readout for low threshold SNSPDs	XIE, Si
14:25	[40] Dielectric Powder as an Axion/Dark Photon Haloscope	KOPPELL, Stewart
14:30	[41] Quantum Capacitance Detectors for Terahertz Single Photon Counting	ECHTERNACH, Pierre
14:35	[42] Dark Matter detection with Quantum Capacitance Detectors	KHATIWADA, Rakshya
14:40	[43] Kinetic Inductance Traveling-Wave Parametric Amplifiers	BASU THAKUR, Ritoban
14:45	[44] Cavity Optomechanical Search for Axions	PATIL, Yogesh
14:50	[45] Converting Interferometers into HEP dectors with high-isolation single-photon detection	MCCULLER, Lee
14:55	[46] Testing the standard model and probing the dark sector by measuring the fine structure constant	MUELLER, Holger
15:00	[47] MAGIS: Extending High Energy Physics with Atom Interferometry	CHEONG, Sanha
15:05	[48] Distributed Atomic Sensing in the Long Island Quantum Network	MARTINEZ-RINCON, Julian
15:10	[49] Direct detection of ultralight dark matter with space quantum sensors	TSAI, Yu-Dai
15:15	[50] Quantum-Assisted Optical Interferometry for Precision Astrometry	STANKUS, Paul
15:20	[51] Training chatGPT on quantum impedance networks of QED	CAMERON, Peter