

Quantum Sensors for HEP

Thursday, April 27, 2023

Hybrid town hall 1: Dark waves, sensor networks, interferometry - YQI Seminar Room (2:00 PM - 3:30 PM)

time	[id] title	presenter
2:00 P	[M5] The need for quantum sensors for HEP science	CHOU, Aaron
2:05 P	[M6] Superconducting Nanowire Single Photon Detectors with Ultra-low energy threshold	SHAW, Matt
2:10 P	[M7] Axion DM with low-threshold SNSPDs	PEÑA, Cristián
2:15 P	[M8] Improvements to the LAMPOST Experiment	KOPPELL, Stewart
2:20 P	[M9] Precision Timing and Scalable Readout for low threshold SNSPDs	XIE, Si
2:25 P	[M0] Dielectric Powder as an Axion/Dark Photon Haloscope	KOPPELL, Stewart
2:30 P	[M1] Quantum Capacitance Detectors for Terahertz Single Photon Counting	ECHTERNACH, Pierre
2:35 P	[M2] Dark Matter detection with Quantum Capacitance Detectors	KHATIWADA, Rakshya
2:40 P	[M3] Kinetic Inductance Traveling-Wave Parametric Amplifiers	BASU THAKUR, Ritoban
2:45 P	[M4] Cavity Optomechanical Search for Axions	PATIL, Yogesh
2:50 P	[M5] Converting Interferometers into HEP detectors with high-isolation single-photon detection	MCCULLER, Lee
2:55 P	[M6] Testing the standard model and probing the dark sector by measuring the fine structure constant	MUELLER, Holger
3:00 P	[M7] MAGIS: Extending High Energy Physics with Atom Interferometry	CHEONG, Sanha
3:05 P	[M8] Distributed Atomic Sensing in the Long Island Quantum Network	MARTINEZ-RINCON, Julian
3:10 P	[M9] Direct detection of ultralight dark matter with space quantum sensors	TSAI, Yu-Dai
3:15 P	[M0] Quantum-Assisted Optical Interferometry for Precision Astrometry	STANKUS, Paul
3:20 P	[M1] Training chatGPT on quantum impedance networks of QED	CAMERON, Peter