

CPAD Workshop 2023

Tuesday, 7 November 2023

RDC8: Session #1 (Quantum and Superconducting Sensors) - 51/1-102 - Kavli Auditorium (13:30 - 15:30)

-Conveners: Rakshya Khatiwada; Aritoki Suzuki

time	[id] title	presenter
13:30	[243] RDC8 coordination effort summary	SUZUKI, Aritoki Prof. KHATIWADA, Rakshya
13:50	[244] RDC8 pair-breaking detectors summary	CHANG, Clarence SHAW, Matthew
14:40	[245] RDC8 coherent wave detectors summary	Dr CAROSI, Gianpaolo ZORZETTI, Silvia

Wednesday, 8 November 2023

RDC8: Session #2 - 51/1-102 - Kavli Auditorium (11:00 - 12:30)

-Conveners: Aritoki Suzuki; Rakshya Khatiwada

time	[id] title	presenter
11:00	[246] ECFA Detector R&D roadmap for Quantum Sensing summary	DOSER, Michael
11:30	[251] AMO, NMR, Interferometry, clock detectors RDC8 subgroup	SINGH, Swati
12:00	[252] Novel Material/Theory and Modeling RDC8 subgroup	GRIFFIN, Sinead

RDC8: Session #3 - 51/1-102 - Kavli Auditorium (13:30 - 15:30)

-Conveners: Aritoki Suzuki; Rakshya Khatiwada

time	[id] title	presenter
13:30	[169] Cryogenic Crystal Phonon Detectors for meV-keV Signals	RYAN, James
13:45	[54] First Detection of 120 GeV Protons with SNSPDs	LEE, Sangbaek
14:00	[57] Development of Superconducting Qubit-Based Sensors for meV Scale Detectors	FINK, Caleb
14:15	[200] Thermal Kinetic Inductance Detectors for millimeter wave cosmology	O'BRIENT, Roger
14:30	[185] Quantum-Enhanced Telescopes for HEP Science	STANKUS, Paul
14:45	[142] First Results from the GigaBREAD Experiment	HOSHINO, Gabriel Dr KNIRCK, Stefan
15:00	[195] KID-based phonon-mediated (KIPM) detectors	WEN, Osmond
15:15	[263] Superconducting Nanowire Single Photon Detectors for Dark Matter Detection and HEP	SHAW, Matt

Thursday, 9 November 2023

RDC8 - 51/1-102 - Kavli Auditorium (11:00 - 12:30)

-Conveners: Xiran Bai

time	[id] title	presenter
11:00	[113] Towards Quantum Charge Parity Detectors with meV Resolution for Astroparticle Applications	RAMANATHAN, Karthik
11:15	[262] Improving light coupling into instruments with integrated photonic and low temperature sensors	DAAL, Miguel
11:30	[79] Versatility of superconducting Hafnium for transition edge sensor bolometers.	ROTERMUND, Kaja
11:45	[121] Low Tc Thin Film Superconducting Detectors	CHANG, Clarence
12:00	[260] Microwave kinetic inductance detector development for the SPT-3G+ camera on the South Pole Telescope	DIBERT, Karia
12:15	[261] Millimeter-wave Superconducting Spectrometers for Next-Generation Cosmology	KARKARE, Kirit

RDC8: Session #4 - 51/1-102 - Kavli Auditorium (13:30 - 15:30)

-Conveners: Michaela Guzzetti

time	[id] title	presenter
13:30	[170] Sapphire substrate qubit-based detector for light dark matter search	ANYANG, Kester
13:45	[173] Ultralight Axion Dark Matter Search using Optical Quantum Sensors	KIM, Young Jin
14:00	[199] R&D for Use of Superconducting Qubits as Dark Matter Detectors	LINEHAN, Ryan
14:15	[171] Novel Light Field Imaging for the MAGIS-100 Experiment	SCHWARTZMAN, Ariel
14:30	[247] RDC8 work packages discussion	SUZUKI, Aritoki Prof. KHATIWADA, Rakshya

Friday, 10 November 2023

RDC8: Session #5 - 51/1-102 - Kavli Auditorium (08:30 - 10:30)

-Conveners: James Wetzel

time	[id] title	presenter
08:30	[22] Searching for axions and dark photons with superconducting nanowire single photon detectors (SNSPDs) in the BREAD experiment	WANG, Christina
08:45	[30] In-situ System Noise Measurement for Axion Haloscopes with JPAs	GUZZETTI, Michaela
09:00	[138] Optical Strain Sensing for Particle Detection	TEMPLES, Dylan
09:15	[115] Accelerating dark matter axion searches with quantum measurement and cavity innovation with HAYSTAC Experiment:	BAI, Xiran
09:30	[203] Superconducting Parametric Amplifiers	WOODWORTH, Kyle
09:45	[177] Quantum Capacitance Detectors for Ultralight Dark Matter searches.	YU, Jialin