

Session A (Tuesday 23-06, 17:45)

Poster ID	Indico ID	Track	Presenters	Title	Session
23-287	287	1	Tom Cecil	Development of Feedhorn Coupled Detectors for Future CMB Experiments	A
25-187	187	1	Ziqing Hong, Runze Ren, E. Figueroa-Feliciano, Noah Kurinsky	NEXUS@FNAL	A
27-51	51	1	Yoshinori Uzawa	Optical and Tunneling Studies of Energy Gap in Superconducting Niobium Nitride Films	A
29-33	33	1	Boris Karasik	An array scalable zero-bias far-IR detector with noise thermometry readout	A
31-119	119	1	Hajime Ezawa	Optical Performance of SIS Photon Detectors at Terahertz Frequencies	A
33-222	222	1	Stephan Friedrich	Detailed STJ and MCA Characterization with a Pulsed UV Laser	A
35-300	300	1	Chiara Bellenghi	Pulse response of a Kinetic Inductance Detector in the non-linear regime	A
37-152	152	1	Alessandro Coppolecchia	W-Band Lumped-Element Kinetic Inductance Detector array for large ground-based telescopes	A
39-45	45	1	LI Jing	Development of a 350-GHz Dual-Polarization On-Chip Spectrometer	A
41-284	284	1	Joanna Perido	Extending KIDs Optical Response to the Mid-IR for Future Space Observatories	A
43-64	64	1	Tuomas Puurtinen	Nanoscale Phononic Crystal Membranes for Low Temperature Detector Applications	A
45-169	169	1	Renato Mezzena	Development of Microwave Kinetic Inductance Detectors for near-IR single photon counting	A
47-347	347	1	Masato Naruse	Alpha line detection with Nb based and YBCO based superconducting resonators	A
1-416	416	1	Simone Frasca	Determination of depairing current of superconducting thin films by means of superconducting nanowire resonators	A
51-111	111	1	sora kim	MMC critical temperature switch development with an integrated heater	A
53-104	104	1	JA Jeon	Development of Neganov-Luke light detectors for a rare event experiment	A
55-218	218	1	Hyelim Kim	Development of low threshold detectors for light dark matter detection	A

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57-312	312	1	Alessandro Serafin	HeRALD, a new detector concept for light dark matter direct detection		A
59-154	154	1	Lucia Canonica	Diamond cryogenic detector for low-mass Dark Matter searches		A
61-242	242	1	Naoko Iyomoto	Development of Gamma-Ray Position-Sensitive Transition-Edge Sensor Microcalorimeters		A
63-120	120	1	Ari Helenius	Improving detection efficiency using polycapillary optics for broadband, ultrahigh resolution spectroscopy of particle induced X-rays with TES microcalorimeter arrays		A
65-134	134	1	Galahad Jogo	High impedance NbSi TES for very large arrays in X-Ray astronomy.		A
67-355	355	1	Stephen Smith	Broad-band, high-resolution, transition-edge-sensor arrays for x-ray astrophysics		A
69-128	128	1	Antoine, R Miniussi	Thermal impact of cosmic ray interaction with X-ray microcalorimeter array		A
71-176	176	1	Carlos Pobes Aranda	Characterization of a Ti/Au TES with Au/Bi absorber under AC and DC bias		A
73-155	155	1	Jason Stevens	Characterization of Transition Edge Sensors for Simons Observatory		A
75-227	227	1	Greg Jaehnig	Development of Low-Frequency Space-Optimized TES Bolometer Arrays for LiteBIRD		A
77-89	89	1	Caleb Fink	Large Area TES Chip with 40meV Resolution		A
79-97	97	1	Luciano Gottardi	Towards a realistic resistive transition model for AC-biased TESs		A
81-34	34	1	ABDELKADER ALIANE	Design, simulation and fabrication of highly sensitive cooled silicon bolometer for millimetre wave absorption		A
83-62	62	1	Abhijit Garai, A. Mazumdar, Ashif Reza	Systematic studies of a sapphire bolometer with phonon pulses in the temperature range of 10-100 mK		A
85-114	114	1	Xavier-François Navick	A 32x32 Doped Silicon based matrix read by HEMT/SiGe Cryo-electronics		A
87-365	365	1	Louis Rodriguez	ON-CHIP POLARIMETRY FOR THE SPICA B-BOP INSTRUMENT		A
89-159	159	2	Zhongyue Zhang	Designing a Gas Cell Experiment for the Calibration of DESHIMA		A
91-230	230	2	Muad Ghaith	New Approaches to Very Low-energy Calibration of Cryogenic Detectors		A
93-213	213	2	Kirit Karkare	Full-Array Noise Performance of Deployment-Grade SuperSpec mm-wave On-Chip Spectrometers		A
95-278	278	2	Dohyung Kwon	Stabilization heaters for AMoRE		A
97-153	153	2	Sophie Beaumont	Data analysis and results for multi-absorbers TES		A

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99-257	257	2	Tommaso Ghigna	Design of a testbed for the study of system interference in space CMB polarimetry	A
101-401	401	2	Michele Biasotti	The phonon mediated TES cosmic ray detector for focal plane of ATHENA x-ray Telescope	A
103-106	106	2	Kaori Hattori	Complex impedance of optical transition-edge sensors with sub-microsecond response	A
105-248	248	2	Vivek Singh	Dynamic characterization of cryogenic optical photon detectors with Ir/Pt bilayer transition edge sensors	A
107-384	384	2	Riccardo Gualtieri, Jeffrey Filippini	Holographic Beam Maps with Transition Edge Sensors	A
109-333	333	2	Azzoni Susanna	Development of a closed-cycle miniature dilution refrigerator for a fast-cooldown 100 mK detector wafer test cryostat	A
111-310	310	2	Valentina Dompè	The CUORE pulse tubes noise cancellation technique	A
113-123	123	2	Stephen Yates	Complex beam maps and a fourier optics analysis of a wide field MKID camera	A
115-319	319	2	Alice Campani	Lowering the energy thresholds for the CUORE Experiment: A comparison between Optimum Trigger and Derivative Trigger Algorithm performances	A
117-61	61	2	Shinya Yamada	High energy background event identification using local group trigger in a 240-pixel X-ray TES array	A
119-277	277	2	Geon-Bo Kim	Self-absorption and Phonon Pulse Shape Discrimination in Scintillating Bolometers	A
121-93	93	2	Ismael Martínez	Cryogenic instrumentation developed for the characterization of advanced CMOS technologies down to 250 mK	A
123-178	178	2	Ashif Reza, Abhijit Garai, A. Mazumdar	A cryogenic front-end preamplifier operating at 120K for bolometric detector	A
125-102	102	2	Alfonso Cabrera	Energy consumption, conversion, and transfer in nanometric Field-Effect-Transistors (FET) used in readout electronics at cryogenic temperatures	A
127-240	240	2	Hiroshi Matsuo	Fast readout cryogenic electronics for SIS photon detectors	A
129-204	204	2	Jan van der Kuur	Properties of the SQUID readout chain under development for the ATHENA X-IFU instrument	A
131-279	279	2	Daniel Richter	dc-SQUID readout scheme with high dynamic range and intrinsic MHz frequency-domain multiplexing capability	A

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133-83	83	2	Tijmen de Haan	Recent Advances in Frequency-Multiplexed TES Readout: Vastly Reduced Parasitics and an Increase in Multiplexing Factor with sub-Kelvin SQUIDs	A
135-348	348	2	Amy E. Lowitz	Performance of a low-parasitic frequency domain multiplexing architecture	A
137-293	293	2	Pourya Khosropanah	A cross-talk mitigation technique for FDM readout system in the SAFARI instrument	A
139-49	49	2	Lorenzo Minutolo	A flexible GPU-accelerated radio-frequency readout for superconducting detectors	A
141-289	289	2	Adrian Sinclair	Development of a Reconfigurable Readout for Superconducting Arrays	A
143-254	254	2	Colm Bracken	ZCU111 RFSoc Characterisation, in the Context of a Cost Effective Microwave Readout System for MKIDs	A
145-189	189	2	Patricio Gallardo	Characterization of aliased noise in the Advanced ACTPol receiver	A
147-291	291	2	Cyndia Yu	Systematics in the On-Sky Performance of the Microwave-SQUID Multiplexer	A
149-109	109	2	Naoki Nakada	Microwave SQUID multiplexer for readout of optical TES array	A
151-304	304	2	Johnathon Gard	Adaptable Firmware for Microwave SQUID Readout on a Commercial Hardware Platform	A
153-302	302	2	Kelsey Morgan	Expanding the Capability of Microwave Multiplexed Readout for Fast Signals in Microcalorimeters	A
155-292	292	2	Danielius Banys	Ka band narrowband parametric amplification via non-linear dynamics in superconducting waveguide cavities	A
157-262	262	2	Dennis Schulz	MOCCA: A 4k-pixel molecule camera for the position and energy resolving detection of neutral molecule fragments at the Cryogenic Storage Ring CSR	A
159-390	390	2	Paolo Carniti	High resolution digitization system for the CROSS experiment	A
161-330	330	2	Guido Fantini	Noise reduction techniques for the CUORE experiment	A
163-258	258	2	Samantha Stever	Thermal simulations of temperature excursions on the Athena X-IFU detector wafer from impacts by cosmic rays	A
165-195	195	2	Nat DeNigris	Developing a Large -Scale Cryogenic System for the Simultaneous Operation of Three Detector Focal Planes in ToITeC, A New Multichroic Imaging Polarimeter	A
167-314	314	2	Jeremy Meinke	Planar Self-Similar Antennas for Broadband Millimeter-Wave Measurements	A

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169-342	342	3	Federica Mantegazzini	Development of metallic magnetic calorimeter arrays with embedded $^{163}\text{Ho}$ for the ECHO experiment	A
171-171	171	3	Tetsuya Tsuruta	Development of Gamma-Ray Transition-Edge-Sensor Microcalorimeters on Thick Membranes	A
173-27	27	3	Cheng Zhang	Development of the low-frequency detectors for BICEP Array	A
175-69	69	3	James Hays-Wehle	The HiRMES Focal Plane Array	A
177-188	188	3	Nicholas Cothard	The Design of The CCAT-Prime Epoch of Reionization Spectrometer Instrument	A
179-68	68	3	Sumit Dahal	The CLASS 150/220 GHz Polarimeter Array: Design, Assembly, and Characterization	A
181-147	147	3	Sebastian Hähle	Measuring Transmission Line Losses at sub-mm wavelengths with an on-chip Fabry-Perot resonator	A
183-311	311	3	Baptiste Mot	The Medium and High Frequencies Telescopes of LiteBIRD	A
185-73	73	3	Theodore Macioce	Multilayer Etched Antireflective Structures for Silicon Vacuum Windows	A
187-181	181	3	Salvatore Ferruggia Bonura	Fabrication of Bismuth Absorber Arrays for NTD-Ge Hard X-ray Microcalorimeters	A
189-234	234	3	Shohei Ezaki	Fabrication of Planar Integrated SIS Mixer Circuit with High Uniformity and High Yield	A
191-363	363	3	Larry A. Hess	Low-loss Microstrip Transmission Line Fabricated with Improved Liftoff Process	A
193-72	72	3	Fabien Defrance	Flat low-loss silicon gradient index lens for millimeter and submillimeter wavelengths	A
195-175	175	3	Christine Jhabvala	Atomic Layer Deposition Josephson Junctions for Cryogenic Circuit Applications	A
197-226	226	3	Benjamin Westbrook	Detector fabrication development for the LiteBIRD satellite mission	A
199-334	334	3	Eduard Driessen	Gradient-index Silicon Optics for Millimeter-wave detectors	A
201-145	145	3	Shibo Shu	Increased multiplexing of superconducting microresonator arrays by post-characterization adaptation of the on-chip capacitors	A
203-281	281	3	Jake Connors	Towards Photon Counting Kinetic Inductance Detectors for Far-Infrared Spectroscopy	A
205-167	167	3	Samir BELDI	Near Infrared and visible TiN- based parallel-plate capacitor kinetic inductance detectors	A
207-346	346	3	Fabien Defrance	Titanium nitride lumped element kinetic inductance detector with parallel plate capacitances	A

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Poster ID	Indico ID	Track	Presenters	Title	Session	
209-336	336	3	Andreas Fleischmann	Development of MMC based combined photon and phonon detector for rare event searches	A	
211-132	132	3	Kenichiro Nagayoshi	Development of a TiAu TES microcalorimeter array as a backup sensor for the Athena/X-IFU instrument	A	
213-396	396	3	Mauro Rajteri	TES microcalorimeters for PTOLEMY	A	
215-28	28	3	Yue Lv, Bo Gao	Fabrication of mushroom-type gold absorber for transition edge X-ray detectors	A	
217-212	212	3	Umeshkumar Patel	Development of Transition-Edge Sensor X-ray Microcalorimeter Linear Array for High Energy Applications	A	
219-374	374	3	Stefanos Marnieros	TES bolometer arrays for the QUBIC B-mode CMB experiment	A	
221-408	408	3	Elena Ferri	Microfabrication of TES microcalorimeters for the HOLMES experiment	A	
223-369	369	3	Erik Shirokoff	title: on-chip spectrometry at THz frequencies and high resolving power	A	
225-186	186	3	Calder Sheagren	Atomic Layer Deposition Niobium Nitride Films for High-Q Resonators	A	
227-388	388	3	Paolo Falferi	Status of the SIMP project: Towards the Single Microwave Photon Detection	A	
229-67	67	3	Gregoire Coiffard	Anti-reflection coating to improve the optical quantum efficiency of PtSi MKIDs arrays	A	
231-201	201	3	Volodymyr Yefremenko	Synthesis and Characterization of MoxNb1-x Films Superconducting at 100-200mK	A	
233-103	103	3	JA Jeon	Low temperature measurement on directional dependence of phonon-scintillation signals from a zinc tungstate crystal	A	
235-158	158	4	Kenichi Karatsu	KATANA – Koolstof (Carbon) Atom Tomography with Advanced Nanotechnology for Astronomy	A	
237-29	29	4	wei cui	HUBS: Hot Universe Baryon Surveyor	A	
239-308	308	4	Conjeepuram Ambarish	Charge exchange measurements with neutral hydrogen using the X-ray Quantum Calorimeter (XQC)	A	
241-162	162	4	François Pajot	The Athena X-ray Integral Field Unit: instrument status at the beginning of the Preliminary Definition phase	A	
243-166	166	4	David Goldfinger	Detector Performance in the Micro-X Telescope	A	
245-297	297	4	Clarence Chang	The CMB-S4 Experiment	A	
247-205	205	4	Aamir Ali	The Simons Observatory: Small Aperture Telescopes	A	

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249-91	91	4	Steve Choi	CCAT-prime: Cosmology with A Six-meter Submillimeter Telescope at Cerro Chajnantor	A
251-126	126	4	Elia Stefano Battistelli	QUBIC: the Q & U Bolometric Interferometer for Cosmology	A
253-264	264	4	Kyung Rae Woo	The AMoRE Pilot experiment	A
255-184	184	4	Luca Pattavina	Archeological Lead detectors for neutrino physics	A
257-86	86	4	Runze Ren	SuperCDMS IMPACT: an Ionization Yield Calibration Program	A
259-85	85	4	Ziqing Hong	Overview of SuperCDMS Experiment	A
261-21	21	4	To Chin Yu	Diamond Detectors for Direct Detection of Sub-GeV Dark Matter	A
263-331	331	4	Loredana Gastaldo	Low Temperature MMC Detector Arrays for the IAXO experiment	A
265-122	122	4	Philipp Chung-On Ranitzsch	MetroMMC: Electron-capture spectrometry with cryogenic calorimeters for science and technology	A
267-156	156	4	Matthew Carpenter	Development of a Wide-Range X-ray Emission Spectroscopy Measurement System with Transition Edge Sensors and Microwave Multiplexed Readout	A
269-276	276	4	Geon-Bo Kim	A New Measurement of the 60 keV Transition in Am-241 Decays using Metallic Magnetic Calorimeters	A
271-350	350	4	Masashi Ohno	Precision measurement of the absorbed dose in heavy ion beam by superconducting transition edge sensor	A
273-139	139	5	Nicola Casali	Suppression of the relaxation induced by radioactivity in superconducting qubits and Kinetic Inductance Detectors	A
275-131	131	6	Emily Ronson	Compact, add-on sub-Kelvin modules extend the working range of 4K mechanical pre-coolers to temperatures below 1K	A
277-90	90	6	Mark Croce	Compact Gamma Spectrometer	A