

Session B (Thursday 25-06, 17:45)

Poster ID	Indico ID	Track	Presenters	Title	Session
24-71	71	1	Francisco Ponce	Impact Ionization in SuperCDMS HVeV Detectors	B
26-191	191	1	Fedja Kadribasic	High Voltage New Interface Studies	B
28-74	74	1	Wei MIAO	Ti hot electron bolometers with Johnson noise readout for terahertz radiation detection	B
30-80	80	1	Zhuoran Geng	Superconductor/ferromagnet tunnel junction based thermoelectric bolometer and calorimeter	B
32-263	263	1	Chisa Asano	R&D of Hf-STJ for COBAND experiment	B
34-269	269	1	Gensheng Wang	Modeling low-Tc Transition-Edge Sensors Made of Multi-layer Metal Films: Thickness Dependence of Electron Transparency at Interfaces	B
36-209	209	1	Hiroki Kutsuma	Novel measurement method for responsivity of microwave kinetic inductance detector by changing a power of readout microwaves	B
40-219	219	1	Jordan Wheeler	Device-Level Noise Physics of SuperSpec's Extremely Low Volume Titanium Nitride Kinetic Inductance Detectors	B
42-274	274	1	Koji Ishidoshiro	Kinetic inductance detectors on CaF2 for spin-dependent dark matter search	B
44-357	357	1	Sunil Golwala	RF Loss Tangent and Two-Level-System Noise of Amorphous Silicon and Crystalline Silicon Dielectrics for Sub/mm Astronomy Applications	B
46-378	378	1	Miguel Daal	High Resolution Photonic MKID Spectrograph	B
48-290	290	1	Ivan Colantoni	BULLKID - Bulky and low-threshold kinetic inductance detectors	B
50-275	275	1	Adalyn Fyhrrie	Decay times of optical pulses for aluminum CPW KIDs	B
52-410	410	1	Konosuke Tetsuno	Development of Scintillating Bolometers for Neutrinoless Double Beta Decay of Ca-48	B
54-268	268	1	Sang Goon KIM	MMC development for the AMoRE project	B
56-260	260	1	Andreas Reifenberger	Temperature and concentration dependence of the heat capacity contribution of holmium ions embedded in metallic absorbers of MMC detectors developed for the ECHO experiment	B
58-376	376	1	Stefanos Marnieros	Development of Ge bolometers using NbSi transition edge sensors for the EDELWEISS and RICOCHET projects	B
60-75	75	1	Toshio Konno	Development of Optical Transition Edge Sensor Array for Photon Imaging	B
62-38	38	1	Shuo Zhang	TES X-ray spectrometer for Shanghai Coherent Light Facility	B
64-99	99	1	Luciano Gottardi	Progress in the optimal TES pixel design for the X-IFU Frequency Division Multiplexing read-out	B

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66-172	172	1	Matteo D'Andrea	The Demonstration Model of the ATHENA X-IFU Cryogenic AntiCoincidence Detector	B
68-81	81	1	Antoine, R Miniussi	Thermal crosstalk measurements and simulations for X-ray microcalorimeter array	B
70-151	151	1	Sophie Beaumont	Extension of the energy range accessible with a TES using bath temperature variations	B
72-115	115	1	Ryohei Konno	Development of TES microcalorimeters for solar axion search	B
74-272	272	1	Yuto Minami	Irradiation tests of superconducting detectors and comparison with simulations	B
76-323	323	1	Shawn Beckman	Cosmic Ray Mitigation Techniques in TES Bolometer Arrays for the LiteBIRD Space Mission	B
78-247	247	1	Christian Kirsch	Time-domain modeling of TES microcalorimeters under AC bias	B
80-256	256	1	Samantha Stever	Benefits and limitations of bolometer Joule ramping	B
82-366	366	1	Claudia Nones	BASKET - Bolometers At Sub-KeV Energy Thresholds	B
84-316	316	1	Irene Nutini	The CUORE bolometric detectors: pulse shape analysis of the thermal signals	B
86-367	367	1	Obaid-Allah ADAMI	Highly sensitive detectors for the B-BOP instrument	B
88-338	338	2	Felix Jaeckel	Progress on optical photon calibration source for X-ray microcalorimeters	B
90-229	229	2	Tatsuya Takekoshi	DESHIMA on ASTE: On-sky Responsivity Calibration of the Integrated Superconducting Spectrometer	B
92-283	283	2	Makoto Nagai	Resonance Spectra of MKIDs Obtained with Frequency Sweeping Scheme	B
94-407	407	2	Yen-Yung Chang	A time- and amplitude-controllable technique for measuring energy resolution and other properties of KID-based phonon-mediated particle detectors	B
96-252	252	2	Daiki Tanabe	An ambient temperature monitoring system for precision measurements of CMB polarization with TES bolometers at the Simons Array	B
98-224	224	2	Tucker Elleflot	Characterization of TES Bolometers for the POLARBEAR-2B Receiver	B
100-343	343	2	Yoshitaka Miura	Combined operation of two small pixel Ir-TESs for optical application	B
102-315	315	2	Charles Titus	Operational optimizations for TES detectors at a femtosecond X-ray laser	B

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104-203	203	2	Hideyuki Tatsuno	Response of transition edge sensors to charged particle impacts and analysis technique for exotic atom X-ray spectroscopy	B
106-265	265	2	Qian Wang	Noise measurement of SQUID and LNA in the FDM readout system for SAFARI	B
108-157	157	2	Baptiste Mot	LiteBIRD cryogenic chain: 100 mK cooling with mechanical coolers and ADRs	B
110-144	144	2	Tom Brien	Results from final-stage lab commissioning of a continuous 100-mK helium light cryogenic platform for MUSCAT	B
112-58	58	2	Katrina Koehler	Automated Drift Correction, Coadding, and Energy Calibration of Large Array Microcalorimeter Data	B
114-243	243	2	Ryota Hayakawa	Waveform Analysis of a 240 pixel TES for X-rays and charged particles using a function of triggering neighboring pixels	B
116-46	46	2	Michael Paulsen	Data handling, evaluation and unfolding methods for radionuclide spectrometry based on low-temperature calorimetric detectors	B
118-170	170	2	Akio Taniguchi	DESHIMA on ASTE: Sky removal method for astronomical observations with an ultra-wideband submillimeter spectrometer	B
120-398	398	2	Matteo Borghesi	Analysis techniques for the signal processing of the HOLMES detectors	B
122-105	105	2	Takafumi Kojima	On-wafer Characterization of Frequency Conversion Properties in an SIS Tunnel Junction	B
124-250	250	2	Akihiro Kasajima	Development of superconducting tunnel junction detector with cryogenic amplifier for COBAND experiment.	B
126-127	127	2	Xavier de la Broïse	ECLIPSE, the cryogenic readout circuit of the polarimetric camera B-BOP for the SPICA spatial observatory project	B
128-298	298	2	Carlos Sierra	Sensitivity forecasting for the Simons Observatory	B
130-228	228	2	Renee Manzagol-Harwood	Detector and SQUID Upgrades for Second Flight of the Micro-X Sounding Rocket	B
132-296	296	2	Maclean Rouble	Transformer-Coupled TES Frequency Domain Readout Prototype	B
134-270	270	2	Michael Audley	FDM Readout of TES Bolometers for the SAFARI Far-Infrared Spectrometer	B
136-267	267	2	Andrea Tartari	Development and testing of the FDM readout of the TES arrays aboard the LSPE/SWIPE balloon-borne experiment	B
138-50	50	2	Yuto Kozuki	Observation of Frequency Up-conversion Gain in SIS Junctions at Millimeter Wavelengths	B

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140-142	142	2	Eoin Baldwin	Analysing the FPGA processing capacity of the Xilinx ZCU111 RFSoc as a photon counting MKID readout system	B
142-137	137	2	Juho Luomahaara	Multiplexed readout of kinetic inductance bolometer arrays	B
144-295	295	2	Clarence Chang	Using Kinetic Inductance Resonators to Readout Superconducting Nanowire Detectors	B
146-299	299	2	W. Bertrand (Randy) Doriese	A 960-pixel X-ray-TES readout platform for Athena X-IFU development	B
148-309	309	2	Johannes Hubmayr	Calculated Performance of the Microwave SQUID Multiplexer in Bolometric Applications	B
150-397	397	2	Andrea Giachero	High speed microwave rf-SQUID multiplexing read-out for the HOLMES experiment	B
152-118	118	2	Yuki Nakashima	Microwave Multiplexing Based on SQUIDs Directly Coupled to Resonators with a View to Simultaneous Readout of 80 TES X-ray Microcalorimeters	B
154-317	317	2	Nick Karcher, Oliver Sander	SDR-based readout electronics for the ECHO experiment	B
156-306	306	2	Peter Day	Superconducting parametric amplifiers for detector array readout	B
158-326	326	2	Simone Copello	The CUORE data acquisition system	B
160-303	303	2	Stephen Kuenstner	Optimizing Readout for Nuclear Magnetic Resonance Axion Searches	B
162-249	249	2	Philippe Peille	Quantifying the effect of cosmic ray showers on the X-IFU energy resolution	B
164-340	340	2	Maximiliano Silva-Feaver, Mayuri Sathyanarayana Rao	Simons Observatory Microwave Multiplexing Readout System Overview	B
166-251	251	2	Maximilian Lorenz	GPU Supported Simulation of Transition-Edge Sensor Arrays	B
168-373	373	2	Alex Juillard	Noise Model of cryogenic High Electron Mobility Transistor, feasibility study of low threshold and high discrimination efficiency low temperature semiconductor detector for Coherent Electron Elastic Neutrino Nucleus Scattering (CENNS) and low mass Dark Matter direct detection experiments	B
170-140	140	3	Ruslan Hummatov	Quantum efficiency study and reflectivity enhancement of AuBi absorbers	B
172-351	351	3	Marcel Ridder	Study of TES detector transition curve to optimize the pixel design for Frequency Division Multiplexing read-out	B

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176-121	121	3	Kenji Kiuchi	Development of large array of Kinetic Inductance Detectors using commercial level foundry	B
178-39	39	3	Mehdi Shafiee	Design Optimization of a 10 Kilopixel Optical Band Microwave Kinetic Inductance Detector	B
180-101	101	3	Yaqiong Li	Assembly and integration process of the high-density detector arrays for Simons Observatory	B
182-179	179	3	Adam Anderson	On-sky Performance of AlMn Transition-Edge Sensor Bolometers for SPT-3G	B
184-37	37	3	Huiqin Yu	Stripline and Microstrip for cryogenic applications	B
186-110	110	3	Takashi Hasebe	Development of multi-layer anti-reflection structures for millimeter-wave silicon optics using deep reactive ion etching process	B
188-208	208	3	John Mates	Microwave SQUID multiplexer design and fabrication for multiplexing factors beyond 1,000	B
190-324	324	3	Angelina Harke-Hosemann	Improving tunnel junction yield in arrays of CMB TESs cooled by NIS refrigerators	B
192-389	389	3	Matteo De Gerone	¹⁶³ Ho distillation and implantation for Holmes experiment	B
194-107	107	3	Shunsuke Adachi	A Novel Production Method of Millimeter-wave Absorber by a 3D-printed Mold	B
196-202	202	3	Marharyta Lisovenko	Silicon oxide, nitride and oxynitride films as dielectric materials for superconducting detector applications	B
198-322	322	3	Shawn Beckman	Development of Next Generation Antenna-Coupled Hemispherical Lens Arrays for The Simons Observatory	B
200-372	372	3	Matias Rodrigues	Preparation of dried sources in 4 pi absorbers for total decay energy spectrometry using nanoporous gold	B
202-173	173	3	Qing Yang Tang	Fabrication of OMT-coupled MKIDs for CMB Observations	B
204-23	23	3	Kevin Denis	Fabrication of phononic-isolated kinetic inductance detectors	B
206-174	174	3	Qing Yang Tang	Effects on Film Stress on Quality Factors of Niobium Resonators	B
208-125	125	3	Lina Bockhorn	Improved source/absorber preparation for radionuclide spectrometry based on low-temperature calorimetric detectors	B
210-193	193	3	Archana Devasia	Prototype Magnetic Calorimeter Arrays with Buried Wiring for the Lynx X-ray Microcalorimeter	B
212-233	233	3	Guanhua Gao	A combined method of DRIE and wet etching for releasing TES islands	B
214-403	403	3	Ahmed H. Abdelhameed	Innovative technique for large scale production of W-TES	B

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216-98	98	3	Matt Kenyon	Development of a high yield fabrication process for the US SpicA FAR infrared Instrument (SAFARI) detector arrays	B
218-235	235	3	Dan McCammon	Simplified patterning of Mo/Cu transition edge sensors	B
220-400	400	3	Beatrice Siri	Bismuth-Gold absorber for large area TES spiderweb bolometers	B
222-141	141	3	Mario De Lucia	Development of MKIDs for optical to near-IR astronomy	B
224-385	385	3	Ritoban Basu Thakur	Tunable kinetic inductance devices for Superconducting On-chip Fourier Transform Spectrometer and Parametric-amplifiers.	B
226-377	377	3	Ryan McGeehan	Progress on SuperSpec Filterbank Improvements for Future Far-IR Spectroscopic Astronomical Measurements	B
228-66	66	3	Gregoire Coiffard	Characterization of Hafnium films for optical MKIDs at very low temperature	B
230-266	266	3	Minkyu Lee	Synthesis of Ag:Er alloy for MMC (Metallic magnetic calorimeters) sensor material using induction heating method	B
232-200	200	3	Eve Vavagiakis	Developing AlMn films for Argonne TES fabrication	B
234-70	70	4	Johannes Staguhn	An Ultra-Stable Mid-Infrared Transit Spectrometer for the Detection of Bio-Signatures in the Atmospheres of Exoplanets	B
236-259	259	4	Alejandro Pascual Laguna	On the Design of Wideband Sub-mm Wave Superconducting Integrated Filter-bank Spectrometers	B
238-95	95	4	Giuseppe Cataldo	Second-generation Micro-Spec: spectrometer design for the Experiment for Cryogenic Large-Aperture Intensity Mapping	B
240-307	307	4	Emily Barrentine	The EXperiment for Cryogenic Large-aperture Intensity Mapping (EXCLAIM)	B
242-364	364	4	Kieran O'Brien	KIDSpec – an MKID based medium resolution, integral field spectrograph	B
244-25	25	4	Ahmed Soliman	Antenna-Coupled TES Arrays Development for BICEP Array CMB Experiment	B
246-164	164	4	Daisuke Kaneko	Deployment of POLARBEAR-2A	B
248-31	31	4	Howard Hui	Constraining the primordial gravitational-wave using BICEP/Keck Array data up to 2018	B
250-43	43	4	Kyungmin Lee	GroundBIRD: CMB polarization experiment with MKID array	B
252-165	165	4	Luca Lamagna	Progress Report on the Large Scale Polarization Explorer.	B
254-371	371	4	Dounia Helis	Neutrinoless double beta decay searches with an enriched ¹¹⁶ CdWO ₄ scintillating bolometer	B
256-245	245	4	HAN BEOM KIM	Detector Design for AMoRE-I	B

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258-133	133	4	Elia Bertoldo	Lithium-containing crystals for light dark matter search experiments in underground laboratories	B
260-168	168	4	Vanessa Zema	COSINUS: Cryogenic calorimeter for the direct dark matter search with NaI crystals	B
262-182	182	4	Antonia Hubbard	Towards Dark Matter Searches with the Micro-X Sounding Rocket	B
264-386	386	4	Elena Sala	Noise temperature measurements for Axion haloscope experiment at CAPP	B
266-345	345	4	Shinji Okada	X-ray spectroscopy of muonic atoms isolated in vacuum using transition edge sensors	B
268-246	246	4	Tadaaki Isobe	Measurement of Th-229 low lying isomeric state with MRTOF+TES system at RIKEN-RIBF	B
270-88	88	4	Mark Croce	Hyperspectral X-ray Imaging	B
272-52	52	5	Wen Zhang	Improving detection efficiency of Ti-based superconducting transition edge sensors with optical cavity	B
274-415	415	5	John Mark Kreikebaum	Itinerant Single Microwave Photon Detection	B
276-327	327	6	Robin Cantor	Requirements for Laboratory-Based EXAFS Spectroscopy with Cryogenic Detectors	B
278-237	237	6	Diego Brasiliano	A continuous ADR table-top optical cryostat for LTD applications	B