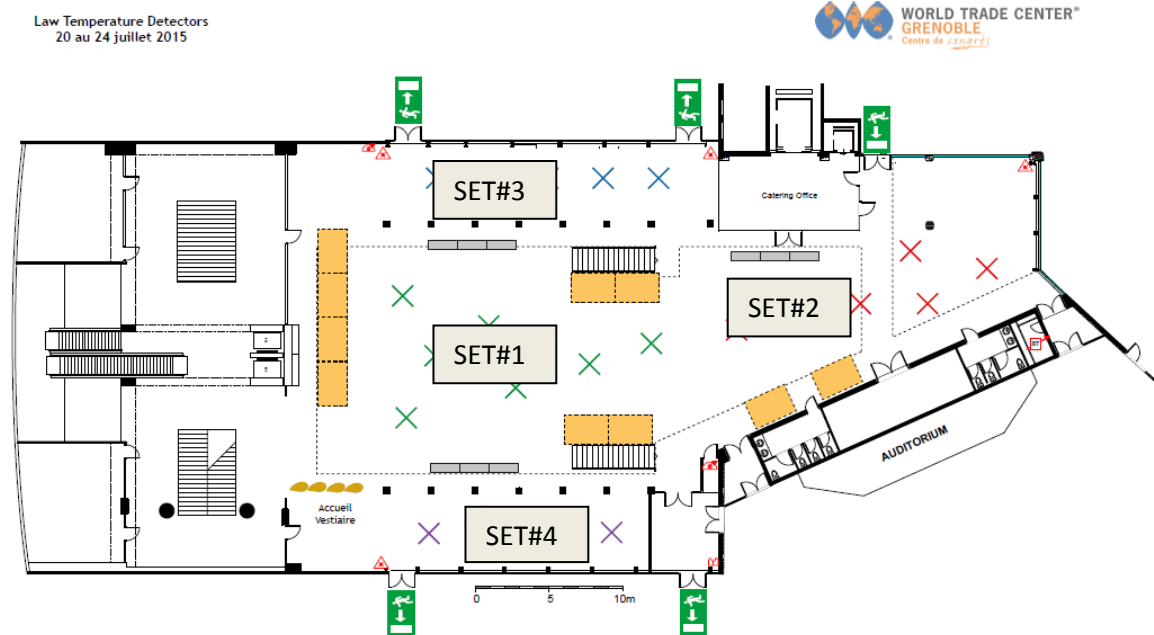


LTD16 : POSTER SESSIONS

POSTERS SESSIONS (MORNING BREAK AND LUNCH)

Poster sessions will be organized during morning break and lunch. Authors are required to be near their poster during the relevant session:

- POSTERS SET#1 : SENSORS PHYSICS (TUESDAY)
- POSTERS SET#2 : DETECTION TECHNIQUES & READOUT (WEDNESDAY)
- POSTERS SET#3 : SPECIAL POSTER SESSIONS (THURSDAY)
- POSTERS SET#4 : APPLICATIONS (FRIDAY)



Sensor Physics	3
T1.1 Transition Edge Sensors	3
T1.2 Kinetic inductance Detectors & Resonators.....	4
T1.3 Tunnel Junction & Nanowires	4
T1.4 Other & Novel Devices	5
Detection Techniques & Readout	6
T2.1 Microcalorimeters, bolometers, pair breaking detectors	6
T2.2 Macrobolometers.....	6
T2.3 Magnetic calorimeters.....	6
T2.4 Readout electronics & signal processing I.....	7
Special Poster Session	8
T3.1 Readout electronics & signal processing II.....	8
T3.2 mm-wave devices at low temperature	8
T3.3 Cryogenics for LTDs	9
T3.4 Fabrication techniques.....	9
T3.5 Potential applications & outreach.....	9
Applications	11
T4.1 X-rays, VIS, NIR & Gamma	11
T4.2 mm&submm astronomy	11
T4.3 Material analysis and life science.....	11
T4.4 Dark matter, neutrinos and rare event search.....	12
T4.5 Particles and nuclear physics.....	12

Sensor Physics

T1.1 Transition Edge Sensors

SPOTS

G1.1	Thermal Conductance Engineering for High-Speed TES Microcalorimeters	Hays-Wehle James
G1.2	Modeling Reversible and Irreversible Behavior in Superconducting Transition Edge Sensors	Sadleir John

POSTERS

G1.3	Detecting single infrared photons with a W-TES for ALPS II	Bastidon Noémie
G1.4	Effects of a rear-surface copper coated silicon nitride membrane on thermal crosstalk in an x-ray microcalorimeter array	Betancourt-Martinez G.L.
G1.5	Comparison of transition properties among Mo/Au TES microcalorimeters with varied positioning of normal-metal features and bias leads	Eckart Megan
G1.6	Pile-up discrimination algorithms for the HOLMES experiment	Ferri Elena
G1.7	Design and Fabrication of TES Detector Modules for the TIME-Pilot [CII] Intensity Mapping Experiment	Hunacek Jonathon
G1.8	Gamma-ray Transition-Edge Sensor microcalorimeters on Solid Substrates	Iyomoto Naoko
G1.9	Fabrication of Mo/Cu bilayers for TES applications using ion-beam assisted e-beam evaporation	Jaeckel Felix T.
G1.10	Improvements in W/AI Quasiparticle-trap-assisted electrothermal-feedback transition-edge-sensors (QETs) for use in the Cryogenic Dark Matter Search (CDMS)	Kreikebaum John Mark
G1.11	Surface roughness effect on transition edge sensor microcalorimeters using multilayer readout wiring.	Kuromaru Gensei
G1.12	Transition-edge Sensor Microcalorimeters for a Diffuse Soft X-ray Sounding Rocket Mission	Morgan Kelsey
G1.13	A 248 TES Array for the detection of CMB B-mode polarization	Perbost Camille
G1.14	Development of the rf-SQUID based multiplexing system for the HOLMES experiment	Puiu Andrei
G1.15	Weak-link evidence in small Transition Edge Sensors	Rajteri Mauro
G1.16	Manufacturing ultra-Low Noise TES Arrays for the SAFARI Instrument on SPICA	Ridder Marcel
G1.17	Inverted Vs. Non-Inverted Devices With Superconducting Aluminum Films Coupled To Tungsten Transition Edge Sensors	Yen Jeffrey
G1.18	Characterization of a prototype TES-based anti-coincidence detector for use with TES X-ray calorimeter arrays	Yoon Wonsik
G1.19	Electrical characteristics of superconducting Ti transition edge sensors	Zhang Wen

T1.2 Kinetic inductance Detectors & Resonators

SPOTS

G1.20	Development of microwave superconducting microresonators for neutrino mass measurement in the HOLMES framework	Giachero Andrea
G1.21	Inductor Noise Study in Kinetic Inductance Detectors Made of TiN	Wang Yiwen

POSTERS

G1.22	Cross-coupling in a KID array caused by the thickness variations of the superconducting metal	ADANE Amar
G1.23	Kinetic Inductance Detectors for Far-Infrared Spectroscopy	Barlis Alyssa
G1.24	Overview of the Design, Fabrication and Performance Requirements of μ -Spec, an Integrated Submillimeter Spectrometer	Barrentine Emily M.
G1.25	Performance and Characterisation of the Medium-to-High Background SpaceKIDs Demonstrator	Barry Pete
G1.26	Calibration Method for large Kinetic Inductance Detector Arrays Based on Readout Frequency Response	Bisigello Laura
G1.27	A Tunable Coupler for Matching MKID Internal and Coupling Quality Factors	Bockstiegel Clinton
G1.28	Photon noise limited performance over an octave of bandwidth of Kinetic Inductance Detectors for sub-millimeter astronomy	Bueno J.
G1.29	Data analysis and characterization of the KID-based light detectors of CALDER	Casali Nicola
G1.30	Design and fabrication of the KID-based light detectors of CALDER	Colantoni Ivan
G1.31	Superconducting Coplanar Waveguide Filters for On-chip Spectrometers	Endo Akira
G1.32	Characterizing horn-coupled, aluminum lumped-element kinetic inductance detectors using coherent and incoherent illumination from a millimeter-wave source	Flanigan Daniel
G1.33	Development of sub-micron broadband lens-coupled LEKIDs for sub-mm astronomy	Gomez Alicia
G1.34	Equivalence of Optical and Electrical Noise Equivalent Power of Hybrid NbTiN-Al Microwave Kinetic Inductance Detectors	Janssen Reinier
G1.35	Development of an 8x8 CPW Microwave Kinetic Inductance Detectors (MKIDs) Array	Li Jing
G1.36	Design, fabrication, and testing of a TiN/Ti/TiN trilayer kinetic inductance detector array for 3 mm CMB observations	Lowitz Amy
G1.37	Tuning the transition temperature of WSi alloys for use in cryogenic micro-calorimeters	Miceli Antonino
G1.38	Platinum silicide: a step toward highly uniform MKID arrays	Szypryt Paul
G1.39	LEKIDs as mm-wave polarisation analysers: fabrication, test bench and early results	Tartari Andrea

T1.3 Tunnel Junction & Nanowires

SPOTS

G1.40	The magnetic field response of nanowire superconducting single-photon detectors	Renema Jelmer
G1.41	Measuring Hotspot Size in SNSPDs	Stevens Martin
G1.42	Development of superconducting tunnel junction array detectors with three-dimensional structure to exceed 1000-pixel array	Fujii Go
G1.43	Development of superconducting tunnel junction X-ray detector with high absorption yields utilizing silicon pixel absorber	Shiki Shigetomo
G1.44	X-ray detection performance of superconducting tunnel junctions with new layer structure	ukibe masahiro
G1.45	A 64-pixel WSi superconducting nanowire camera for real-time single-photon imaging	Verma Varun

POSTERS

G1.46	Quasiparticle Self-recombination in Superconducting Tunnel Junction X-ray Detectors	Andrianov Victor
G1.47	Arrays of WSi Superconducting Nanowire Single Photon Detectors	Beyer Andrew
G1.48	Waveguide coupled WSi superconducting nanowire single photon detectors	Beyer Andrew
G1.49	X-ray sensitive and energy-dispersive superconducting nanowire single-photon detectors	Zhang Xiaofu

T1.4 Other & Novel Devices

SPOTS

G1.50	Detecting Pulsed Neutrons by using Current-Biased Kinetic Inductance Detector and 10B convertor	Ishida Takekazu
G1.51	First measurement of an infrared dielectric bolometer with microwave readout and possible extension to a large-scale format X-ray microcalorimeter	Kikuchi Takahiro
G1.52	Optical response of strained and unstrained silicon cold electron bolometers	Mauskopf Philip

POSTERS

G1.53	Development of Blocked-Impurity-Band-type Ge detectors fabricated with the surface-activated wafer bonding method for far-infrared astronomy	Hanaoka Misaki
G1.54	The design and characterization of Dielectric Microcalorimeters for X-ray photon detection	Hoshino Masatoshi
G1.55	Heat capacity and thermal conductance measurements of a superconducting/normal mixed state by detection of single 3 eV photons in a Magnetic Penetration Thermometer	Stevenson Thomas
G1.56	Development for Germanium Blocked Impurity Band Far-Infrared Image Sensors with Fully-Depleted Silicon-On-Insulator CMOS Readout Integrated Circuit	Wada Takehiko

Detection Techniques & Readout

T2.1 Microcalorimeters, bolometers, pair breaking detectors

POSTERS

G2.1	On the absorber thickness of microcalorimetric detectors in experiments at nuclear storage rings	Andrianov Victor
G2.2	Optical Characterization of ultra-low NEP TES bolometers with high optical efficiency in the 5--9 THz range	Audley Michael
G2.3	Measurement of the heat capacity of Ho implanted Au film for the HOLMES experiment	Ceriale Valentina
G2.4	SIS Detectors for Terahertz Photon Counting System	Ezawa Hajime
G2.5	Microfabricated Thick Proximity Bi-layers as Sensors for Magnetic Penetration Thermometers (MPTs)	Geist Jeschua
G2.6	Temporal gain correction for x-ray calorimeter spectrometers	Porter Frederick

T2.2 Macrobolometers

POSTERS

G2.7	Algorithms for identification of nearly-coincident events in calorimetric sensors	Alpert Bradley
G2.8	Pulse Shape Analysis of scintillation signals in CaMoO ₄ low temperature scintillating calorimeters	CHOI JUNHO
G2.9	Position dependence analysis in phonon-based detectors	Kim Inwook
G2.10	SiM-X: Silicon microcalorimeters for high-precision X-ray spectroscopy of highly-charged heavy ions at FAIR	Kraft-Bermuth Saskia
G2.11	Development of Integrated Magnetic Microcalorimeters for Gamma-Ray Spectroscopy	Le Linh
G2.12	High count-rate study of transition-edge sensor X-ray microcalorimeters	Lee S.-J.
G2.13	Resistive Behavior of a superconducting NbN hot electron bolometer in a magnetic field	Miao Wei
G2.14	Development of tensioned ion-implanted silicon absorber wires for large-area multimode bolometers	Nagler Peter
G2.15	Development of superconducting magnetic heat switches for an Ideal Integrating Bolometer	Nagler Peter
G2.16	Charge Trapping and Impact Ionization in CDMS Detectors	Phipps Arran
G2.17	Systematic vibration studies on a cryogen-free ³ He/ ⁴ He dilution refrigerator for X-ray spectroscopy at storage rings	Scholz Pascal
G2.18	Development of Octave-band Planar Ortho-Mode Transducer with MKID for CMB B-mode Observations	Shu Shibo
G2.19	Development of kilo-pixel arrays of transition-edge sensors for x-ray spectroscopy applications	Smith Stephen
G2.20	Development of the Next Generation of Multi-chroic Antenna Coupled Transition Edge Sensor Detectors for CMB Polarimetry	Westbrook Benjamin
G2.22	Optimizing cryogenic detector configurations for low-mass WIMP searches	ARNAUD Quentin
G2.23	Characterization and optimization of EDELWEISS-III FID800 heat sensors	Billard Julien

T2.3 Magnetic calorimeters

POSTERS

G2.24	Development of Metallic magnetic calorimeters with a critical temperature switch	Kim So-Ra
G2.25	Study on the lattice damage effect in high-resolution alpha spectrometers using metallic magnetic calorimeters	Kim So-Ra

T2.4 Readout electronics & signal processing I

POSTERS

G2.26	Progress Toward Improving Analysis of TES X-ray Data Using Principal Component Analysis	Bandler Simon
G2.27	HEMT and SiGe readout ASICs for amplification and multiplexing at very low temperature of high impedance sensors : new results and performances	de la Broise Xavier
G2.28	dc-SQUIDs for the readout of metallic magnetic calorimeters	Ferring Anna
G2.29	Electronics development for the readout of microwave SQUID multiplexers	Gard Johnathon D.
G2.30	Novel analysis techniques to address systematic resolution degradation in multiplexed arrays of transition-edge x-ray sensors	Joe Young II
G2.31	Characterization of Niobium Nitride Resonators at 0.1 K in Microwave SQUID Multiplexers for Readout of Transition Edge Sensors and Metallic Magnetic Calorimeters	KOJIRO Satoshi
G2.32	A demonstration of cryogenic trans-impedance amplifier using fully-depleted silicon- on-insulator CMOS operational amplifier for far-infrared image sensor	Nagase Koichi
G2.33	Towards a 100eV, T=4K HEMT-Based Charge Amplifier for Ionization Readout of CDMS Detectors	Phipps Arran
G2.34	High Speed Readout Electronics for Time and Code Division Multiplexing Applications: Critical Developments for Operation at 6.25 MHz Switching Rates	Reintsema Carl
G2.35	Kintex-7 FPGA board for FDM scheme readout for superconducting mm-wavelength detectors	Salvador Ventura-González
G2.36	Test bench for the study of the noise of HEMTs at temperatures down to 300mK	Torres Lidia
G2.37	High Density, Low Heat Load Superconducting Flex Cables for Cryogenic Microwave Readouts	Walter Alex B.
G2.38	Microwave SQUID multiplexer read-out of large MMC detector arrays	Wegner Mathias
G2.39	Processing of x-ray micro-calorimeter data with pulse shape variation using principal component analysis	Yan Daikang

Special Poster Session

T3.1 Readout electronics & signal processing II

SPOTS

G2.40	Pulse pile-up does not have to ruin everything: using microcalorimeters at high count rate	Fowler Joseph
G2.21	Technique for Recovering Pile-up Events from Microcalorimeter Data	Wulf Dallas
G2.41	4 Kelvin cryogenic characterization of commercial pHEMT transistors at 9 kHz to 8.5 GHz range	Ibarra-Medel Eduardo
G2.42	A front-end electronics for MKID-array readout towards observation of CMB polarization	Ishitsuka Hikaru
G2.43	Development of Frequency Sweeping Readout System for Microwave Kinetic Inductance Detectors	Karatsu Kenichi
G2.44	In Focal Plane Multiplexing Circuitry for Next-Generation Arrays	Lowell Peter
G2.45	Planar Lithographed Superconducting LC Resonators for Frequency-Domain Multiplexed Readout Systems	Rotermund Kaja
G2.46	Development of Frequency-Division Multiplexing Readout System for Large-Format TES X-Ray Microcalorimeter Arrays	Sakai Kazuhiro
G2.47	World's cheapest readout electronics for kinetic inductance detector by using RedPitaya	Tomita Nozomu
G2.48	Superconducting strip ion detectors (SSIDs) with single flux quantum based time-to-digital converters (SFQ TDCs) for time-of-flight mass spectrometry (TOF MS)	Zen Nobuyuki

T3.2 mm-wave devices at low temperature

SPOTS

G3.1	Dual-Band High-Frequency Microwave Polarimeters for Advanced ACTPol	Austermann Jason
G3.2	DEVELOPMENT OF LUMPED ELEMENT KINETIC INDUCTANCE DETECTORS FOR THE W-BAND	Coppolecchia Alessandro
G3.3	Multi-mode TES chip optimization for the LSPE-SWIPE instrument	Gualtieri Riccardo
G3.4	Laboratory Characterization of SuperSpec	Hailey-Dunsheath Steven
G3.5	Radiation Tolerance of Al Microwave Kinetic Inductance Detector	Karatsu Kenichi
G3.6	Demonstration and Characterization of $\lambda/4$ Spec: An Integrated Photonic Spectrometer for Submillimeter Astrophysics in Space	Noroozian Omid
G3.7	Direct machined broadband corrugated horn array for millimeter observations	Sekiguchi Shigeyuki
G3.8	Recent results from SuperSpec, a KID-based on-chip spectrometer for mm-wavelength astronomy.	Shirokoff Erik
G3.9	The broadband anti-reflection coated extended hemispherical silicon lenses for Polarbear-2 experiment.	Siritanasak Praween
G3.10	Traveling-Wave Kinetic Inductance Amplifier using 3 wave mixing	Vissers Michael

POSTERS

G3.11	Superconducting coplanar switch and phase shifter for CMB applications	bordier guillaume
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T3.3 Cryogenics for LTDs

SPOTS

G3.12	Progress on 1 Kelvin General-purpose Refrigeration employing Superconducting Tunnel Junctions	Zhang Xiaohang
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POSTERS

G3.13	Easycool : a two-stages continuous ADR refrigerator for LTD applications	camus philippe
G3.14	A compact adiabatic demagnetization refrigerator for TES microcalorimeter operation.	Hishi Ukyo
G3.15	Development of 2 - 0.05K class gas-gap heat switch with low off conductance	Hoshino Akio
G3.16	High energy cosmic ray showers and their effects on sub-Kelvin stage in space experiments	Miniussi Antoine

T3.4 Fabrication techniques

SPOTS

G3.17	Uniform non-stoichiometric titanium nitride thin films for improved kinetic inductance detector array	Coiffard Grégoire
G3.18	Optical lithography of WSix superconducting nanowire single photon detectors	Beyer Andrew
G3.19	FDM read out assembly with flexible, superconducting connection to cryogenic kilo-pixel TES detectors	Bruijn Marcel
G3.20	Fabrication of transition edge sensor microcalorimeters for x-ray focal planes	Chervenak James
G3.21	Feedhorn-Coupled Transition Edge Sensor Arrays for Measurement of the Cosmic Microwave Background Polarization	Denis Kevin
G3.22	Microfabrication technology for large LEKID arrays: from NIKA2 to future applications	GOUPY Johannes
G3.23	Study of the fabricating multilayer absorber with the aim of improving detection efficiency of TES X-ray micro calorimeter array	HAYASHI Tasuku
G3.24	Kinematic mounting of stackable multi-layer large format low temperature arrays	Moseley Samuel
G3.25	Composite Reflective/Absorptive IR-Blocking Filters on Metamaterial Anti-reflection Coated Silicon	Munson Charles
G3.26	Development of NTD Ge Sensors for Superconducting Bolometer	Nanal Vandana
G3.27	NTD-Ge development in the LUMINEU project for Rare Events searches with cryogenic detectors	Navick Xavier-François
G3.28	Advanced ACTPol detector-readout interface: High-density superconducting cable fabrication process and array assembly techniques	Pappas Christine
G3.30	Fabrication of Neganov-Luke Amplified Cryogenic Light Detectors with Silicon Light Absorbers for Rare Event Search Experiments	Willers Michael

POSTERS

G3.29	Microfabrication of Metallic Magnetic Calorimeters	Schötz Christian
G3.31	Kilopixel Backshort-Under-Grid Arrays for the High Resolution Wideband Camera Instrument Upgrade	Jhabvala Christine

T3.5 Potential applications & outreach

SPOTS

G3.32	Commercial Release of a Ta-based Superconducting Tunnel Junction X-Ray Detector for Synchrotron Science	Carpenter Matthew
G3.33	An X-ray TES detector head for high-precision composition analysis	Kenichiro Nagayoshi

G3.34	Above-ground measurements of CaMoO ₄ crystal detectors using metallic magnetic calorimeters	Kim Geon-Bo
G3.35	Monitoring system for atmospheric water vapor with a ground-based multi-band radiometer -- an application of radio astronomy technologies into meteorology	Nagasaki Taketo
G3.36	New application stages of superconducting tunnel junctions in scientific instrumentation	Ohkubo Masataka
G3.37	Precision measurement of nuclear recoil ionization yields for low mass wimp searches	Saab Tarek
G3.38	The LUCIFER project - current status and perspectives	Schäffner Karoline

POSTERS

G3.39	Performance study and discovery potential of alkali halide scintillating bolometers for dark matter search	Schäffner Karoline
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Applications

T4.1 X-rays, VIS, NIR & Gamma

POSTERS

G4.1	Vibration Isolation Design for the Micro-X Rocket Payload	Danowski Meredith
G4.2	Energy Gain Scale of the Astro-H Soft X-ray Spectrometer: wide-bandpass measurements and optimal fitting function	Eckart Megan
G4.3	Thermal Design for the Micro-X Rocket Payload	Goldfinger David
G4.4	Metallic Magnetic Calorimeter Arrays for High-Resolution X-ray Spectroscopy and Polarimetry	Hengstler Daniel
G4.5	Study of the residual background events in ground data from the Astro-H/SXS microcalorimeter	Kilbourne Caroline
G4.6	A compact, low-cost, high-resolution monochromatic X-ray source for characterization of X-ray calorimeter arrays	Leutenegger Maurice
G4.7	Transition-Edge Sensors and Particle Induced X-ray Emission Spectroscopy	Palosaari Mikko
G4.8	High Precision EUV Spectroscopy with Superconducting Tunnel Junctions	Ponce Francisco
G4.9	Making every photon count: high resolution, high efficiency superconducting microcalorimeter detectors for beamline applications	Swetz Daniel

T4.2 mm&submm astronomy

POSTERS

G4.10	Fabrication and test of large area spider-web multi-mode bolometers for CMB polarization measurements.	Biasotti Michele
G4.11	Noise, jumps and non-linearity: Optimising the SCUBA-2 TES arrays for spectrometry with FTS-2	Bintley Dan
G4.12	Design and Deployment of a Multichroic Polarimeter Array on the Atacama Cosmology Telescope	Datta Rahul
G4.13	Broadband plasma sprayed anti-reflection coating for millimeter-wave astrophysics experiments	Jeong Oliver
G4.14	Advantages of Photon Counting Detectors for Terahertz Astronomy	Matsuo Hiroshi
G4.15	Modulated Blackbody Polarization Source for Characterization of CMB Detectors at 0.1 K	MIMA SATORU
G4.16	BFORE: The B-mode Foreground Experiment	Niemack Michael
G4.17	GroundBIRD - observation of CMB polarization at large angular scales with a combination of MKID arrays and a high-speed rotating telescope	Oguri Shugo
G4.18	Design, deployment, and operation of ACTPol, a millimeter wavelength, polarization sensitive receiver for the Atacama Cosmology Telescope	Schmitt Benjamin
G4.19	Design of Corrugated Horn Coupled MKID Focal Plane for CMB B-mode polarization satellite LiteBIRD	Sekimoto Yutaro
G4.20	Wideband Spline-Profiled Feedhorns for Advanced ACTPol	Simon Sara
G4.21	Characterizing Detectors with a Half-Wave Plate on the Atacama B-mode Search Instrument	Simon Sara
G4.22	CMB science: opportunities for a cryogenic filter-bank spectrometer	Tartari Andrea
G4.23	Design of a 2 mm wavelength KIDs prototype camera for the Large Millimeter Telescope	Velázquez Miguel

T4.3 Material analysis and life science

POSTERS

G4.24	Oxidation State Measurements of the Uranium M-alpha Peak Using a Microcalorimeter Array Coupled to a Scanning Electron Microscope	Havrilla George
G4.25	Simultaneous Measurement of MeV-Alpha Decays and keV-Beta Decays Inside a Microcalorimeter: Determining the Chemical Age of Trace-Level Plutonium Samples	Rabin Michael
G4.26	Characterization of polycapillary optics in a TES microcalorimeter EDS system installed on a SEM	TAKANO Akira
G4.27	Characterization system of 64 pixel array TES microcalorimeters	Yoshimoto Shota

T4.4 Dark matter, neutrinos and rare event search

POSTERS

G4.28	The SuperCDMS SNOLAB Detector Tower	Aramaki Tsuguo
G4.29	Silicon detectors with implanted contacts for the detection of visible photons using the Neganov-Trofimov-Luke Effect.	Defay Xavier
G4.30	Rejection of alpha surface background in non-scintillating bolometric detectors: the ABSuRD project	di Vacri Maria Laura
G4.31	Investigation of a pulse shape based discrimination of surface interactions in high purity germanium crystals	Foerster Nadine
G4.32	The Electron Capture in ^{163}Ho experiment	Gastaldo Loredana
G4.33	Development of MMC-based photon and phonon detectors for rare event searches	Hassel Clemens
G4.34	Compact heat and light detection system for 1-cm ³ scintillating crystals	Kim Hyeelim
G4.35	An optimization study of MMC based light detectors for rare event search experiments	Lee Hyejin
G4.36	Heat signals associated with energy deposits within the NTD Ge thermometer in a cryogenic germanium detector for dark matter search	Piro Marie-Cécile

T4.5 Particles and nuclear physics

POSTERS

G4.37	Quantitative Analysis of Alpha-Decaying Isotopes by Total Nuclear Reaction Energy Spectroscopy	Croce Mark
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