

XVIII International Conference on Topics in Astroparticle and Underground Physics (TAUP 2023)

Monday 28 August 2023

Poster session: A (18:30 - 21:00)

[id] title	presenter	board
[40] The mass spectroscopy of dark matter in $SU(3)$ hidden color	MURAKAMI, Yuko	
[58] Searching for Beyond-Standard-Model Physics with LEGEND-1000	WATKINS, Samuel	
[90] CR antinuclei predictions and their detectability in the next years		
[119] Laser-driven secondary photon emission of FBK NUV-HD Cryo SiPMs	KACHRU, Priyanka	
[149] Study of high-purity NaI(Tl) crystals using the PICOLON purification method.	Mr KOTERA, Kenta	
[154] A model for the KATRIN differential Tritium spectrum to search for keV sterile neutrinos	NAVA, Andrea	
[179] TRISTAN: A novel detector for searching keV-sterile neutrinos at the KATRIN experiment	URBAN, Korbinian	
[485] Development of cryogenic CMOS ASICs for HPGe detectors for dark matter and neutrino detection experiments	DENG, Zhi	
[395] Recent progress on BSM and dark matter searches in CUORE	RESSA, Alberto	
[118] Projections of discovery potentials for future neutrinoless double beta decay experiments	Dr SINGH, Manoj Kumar	
[155] Enhancing Performance for AMoRE-II Detectors Using Lithium Molybdate Crystal Absorber	Dr SO, Jungho	
[147] The radon and radium concentrations in water measurement systems for JUNO's Water Cherenkov Detector	Dr GUO, Cong	
[96] First results from the LAPPDs in ANNIE	BREISCH, Marc	
[549] Manipulating stored energy in NaI(Tl) and DAMA-LIBRA background modulation	PEREVERZEV, sergey	
[381] Dark photon DM search in 6-8 eV energy range with URIDA Experiment	KRYEMADHI, Abaz	
[392] Optimal operation of cryogenic calorimeter through deep reinforcement learning	WAGNER, Felix	
[221] Dark Matter interpretation of neutron multiplicity anomalies	Dr WARD, Thomas Prof. TRZASKA, Wladyslaw	
[569] Geant4 simulations of the influence of contamination and roughness of the detector surface on background spectra in CRESST	GRUNER, Christoph	
[527] The COSINUS Underground Cryogenic Facility	HUGHES, Maximilian Nathan	
[474] Axion searches using the European X-ray Free Electron Laser (EuXFEL)	Dr HALLIDAY, Jack	
[435] A search for low-mass dark matter with a CaF ₂ crystal	Mr WOO, KyungRae	
[375] Novel multi-channel skipper-CCD packages for the OSCURA experiment	BOTTI, Ana Martina	
[362] Optimum Filter Analysis in CRESST-III	MEYER, Lena	

[358] Description of the low energy excess in CRESST using two-dimensional unbinned likelihood fits	KUCKUK, Sarah	
[357] Anisotropic Effect of ZnWO ₄ Scintillator for Direction-Sensitive Dark Matter Search	KUROSAWA, Shunsuke	
[349] Searching for Heavy Dark Matter near the Planck Mass with XENON1T	LI, Shengchao	
[342] TAXO - Towards an ultra-low background semiconductor detector for IAXO	WIESINGER, Christoph	
[329] The XENONnT Radon Removal System	KOKE, David	
[318] Krypton Removal for the XENON Dark Matter Project	JAKOB, Johanna	
[316] A low-threshold diamond cryogenic detector for sub-GeV Dark Matter searches	BERTOLINI, Anna	
[314] Ultra-clean four cylinder magnetically-coupled piston pump for noble gas experiments	MICHAEL, Andria	
[296] The physics-driven surface background model for XENONnT	FERRARI, Cecilia	
[272] Monte Carlo study of the Water Cherenkov Muon Veto for the COSINUS Experiment	Dr STUKEL, Matthew Jake	
[263] Towards a cryogenic calibration of a dielectric haloscope for direct dark matter detection	MALDONADO, Juan PA	
[248] Study on the preparation of low-background flexible electronics substrate based on ion beam modification polymer surface	Mr MENG, XIANGPENG	
[194] Magnetically-levitated superconductors for dark matter detection	Dr HIGGINS, Gerard	
[181] Muon Veto of the LEGEND Experiment	GRÜNAUER, Gina	
[152] The LEGEND-200 Liquid Argon Instrumentation: From a simple veto to a full-fledged detector	DECKERT, Rosanna	
[114] Constraining the ^{77}Ge Production with GERDA Data and Implications for LEGEND-1000	Mr NEUBERGER, Moritz	
[103] Comparison of cross section models for neutrino-induced single pion production	YAMAUCHI, Koki	
[180] Measurement of the nuclear transition energies of $^{83\text{m}}\text{Kr}$ for absolute calibration of the KATRIN energy scale	Mr BÖTTCHER, Matthias	
[177] Optical simulation of a reactor neutrino CEvNS experiment with dual-phase argon technology	Mr XIE, yijun	
[64] Denoising Signals from a High-Purity Germanium Detector using Generative Adversarial Networks with Convolutional Autoencoders	YE, Tianai	
[182] Purification of 100MoO ₃ powder for AMoRE-II crystals' synthesis	Dr GILEVA, Olga	
[178] Application of gamma Transition-Edge-Sensor (TES) to ^{112}Sn two-neutrino double electron capture search	Dr ICHIMURA, Koichi	
[175] Measurement of cosmogenic Li-9 isotope production in SK-Gd	SHINOKI, Masataka	
[170] Background simulation for AMoRE-II experiment	SEO, Jeewon	
[168] Studies on a deep convolutional autoencoder for denoising pulses from a p-type point contact germanium detector	ANDERSON, Mark	
[146] Revisiting constraints on long-range neutrino interactions with high-energy astrophysical neutrinos	Mr DAS, Sudipta	

[413] Searching for neutron Electric Dipole Moment and dark matter candidates at the Paul Scherrer Institute	Prof. ZEJMA, Jacek	
[498] Multimessenger constraints to electrophilic feebly interacting particles from supernovae		
[521] Current Status of the ALPACA experiment in 2023	Dr OHNISHI, Munehiro	
[605] First Results on ^{17}O Enrichment of CaWO_4 Crystals for Spin-dependent DM search with CRESST	KINAST, Angelina	
[631] IMPRS on Gravitational Wave Astronomy	KAWAZOE, Fumiko	
[584] Readout electronics development for the OSCURA experiment	BOTTI, Ana Martina	

Wednesday 30 August 2023

Poster session: B (15:30 - 16:30)

[id] title	presenter	board
[483] Phenomenological and cosmological implications of a scotogenic three-loop neutrino mass model	DE MELO, Tessio	
[450] Preliminary Design of Waveform Digitizer for Jinping Neutrino Experiment at CJPL	Mr JIANG, Lin	
[446] $0\nu\beta\beta$ Target Out Analysis for the SNO+ Experiment	TAM, Benjamin	
[438] DUNE sensitivity for observing/discriminating theories beyond standard neutrino oscillation	Mr CALATAYUD CADENILLAS, Anthony	
[431] Toward Accurate Prediction of Neutron Multiplicity Associated with Neutrino Interactions	ABE, Seisho	
[416] Data analysis of the nucleus experiment with the Diana framework	DEL CASTELLO, Giorgio	
[414] Study of long-range force of $L_{\mu}L_{\tau}$ symmetry at INO-ICAL detector	Dr KHATUN, Amina	
[400] Development of T2K Beam Simulation with GEANT4	Dr NASCIMENTO MACHADO, Lucas	
[394] ^{76}Ge Detectors of LEGEND experiment: Production, Characterization, Performance	BIANCACCI, Valentina	
[380] Background Modeling for LEGEND-200	Mr GALA, Rushabh	
[376] Atmospheric neutrino event selection and classification for oscillation analysis at JUNO	Mr HE, Xinhai	
[372] Development of enhanced light detectors for CUPID experiment	Mr BEREST, Vladyslav	
[364] Observation of low-lying isomeric states in ^{136}Cs : a new avenue for dark matter and solar neutrino detection in xenon detectors	Dr LENARDO, Brian	
[307] KM3NeT real-time analysis framework	MASTRODICASA, Massimo	
[282] Scintillation Time Profiles of Slow Organic and Water-Based Liquid Scintillators using a Pulsed Neutron Beam	Mr STOCK, Matthias Raphael	
[233] Impact of marine macroseisms on the response of the CUORE cryogenic calorimeters	QUITADAMO, Simone	
[229] Selection techniques of neutrino-induced cascades in the Baikal-GVD neutrino telescope	BARDACOVA, Zuzana	
[198] Performance analysis of 20-inch potted PMTs for JUNO experiment	LIU, Caimei	
[453] Low-background radioactivity counting at the most sensitive HPGe detector in Germany	TURKAT, Steffen	
[353] Development of methods for the ultra-sensitive analysis of background sources in deep-underground experiments	JESKOVSKY, Miroslav	
[266] Upgrade of OSIRIS for Future Liquid Scintillator Studies	Dr LOO, Kai	
[628] The Progress of Superconducting Transition Edge Sensor (TES) for Photothermal Detection System in Cupid-China $0\nu\beta\beta$ Experiment	LV, Shasha	
[604] Scintillating active Transverse Energy Filter: a novel detector concept for angular selective background discrimination	HUBER, Anton	

[564] Discovery possibility of new physics beyond the two-neutrinos double-beta decay	CELI, Emanuela	
[557] Analysis techniques for the search of neutrinoless double-beta decay of Te-130 with CUORE	Dr ALFONSO, Krystal	
[548] Measurements from HALO	Dr SEKULA, Stephen	
[533] RECODE program for reactor neutrino CEvNS detection with PPC Germanium detector	Dr YANG, Litao	
[517] Radon contamination measurement in the SuperNEMO demonstrator	Mr VERESHCHAKA, Yegor	
[515] First Energy Calibration of SuperNEMO's Calorimeter using its Tracko-Calo Technology	PATRICK, Cheryl	
[457] Neutron Veto Instrumentation for LEGEND-1000	MORELLA, Michele	
[451] Simulations of atmospheric neutron and muon background for the NUCLEUS experiment	BURKHART, Jens	
[423] First results of the ACCESS project	Dr PAGNANINI, Lorenzo	
[422] Reconstruction of double cascades in the Baikal-GVD neutrino telescope	ECKEROVA, Eliska	
[418] Prometheus: An Open-Source Neutrino Telescope Simulation	Dr MEIGHEN-BERGER, Stephan	
[396] Novel techniques for thermal detectors and applications for rare events physics	Dr NUTINI, Irene	
[386] Pre-supernova neutrino alarm at KamLAND and its extension to an combined system with SK	Mr SAITO, Keita	
[367] Atmospheric Tau Neutrino Interaction and its Identification at JUNO Experiment	Mr QU, Zhenning	
[347] LEGEND-200 Data Acquisition, Monitoring and Calibration	BOS, Brady	
[346] SNO+ Tellurium Purification and Loading for Neutrinoless Double Beta Decay Search	Prof. BILLER, Steve Dr MANECKI, Szymon	
[323] Optimizing Energy Reconstruction for nEXO	Mr HARDY, Clarke	
[317] Event Reconstruction in the SNO+ Experiment	Dr KROUPOVA, Tereza	
[297] KATRIN neutrino mass analysis and beyond - Insight into the neural network approach	WIESINGER, Christoph	
[252] Machine learning-based waveform reconstruction at JUNO	HUANG, Guihong	
[210] JUNO's Sensitivity to the Neutrino Mass Ordering	HEINZ, Tobias	
[183] Backgrounds and sensitivity of the CUPID experiment	LOAIZA, Pia	
[192] A New Method for Detecting Charged-Current Neutrino Interactions on ^{136}Xe in KamLAND-Zen: Implications for Solar Neutrino Measurements and Fermionic Dark Matter Searches	Mr TACHIBANA, Koga	
[193] Pulse Shape Discrimination for the CONUS Experiment	HEMPFLING, Janine	
[216] Denoising Algorithms for the CUORE Experiment	VETTER, Kenny	
[226] A Neutron Veto for the PandaX-4T Experiment	HUANG, Junting	
[230] Unlocking the Light(er) Sterile Neutrino Sector: Matter Effects and Mass Ordering	Mr CHATTOPADHYAY, Dibya S.	
[253] Search for light sterile neutrinos with the KATRIN experiment	KÖLLENBERGER, Leonard	
[267] Detector calibration in the sub-MeV range in JUNO	Dr TAKENAKA, Akira	

[268] Neutron source-based event reconstruction in the JUNO detector	Dr TAKENAKA, Akira	
[274] P2: photon and phonon detectors on a solid Si substrate for scintillating crystals at low temperature	Dr GASTALDO, Loredana	