



# IDM 2024

## Monday, 8 July 2024

### Parallel 3: Axion/Sterile (14:00 - 16:00)

-Conveners: Giovanni Benato

time	[id] title	presenter
14:00	[174] HAYSTAC Status and Future Plans	VAN BIBBER, Karl
14:17	[169] High Frequency Microwave Cavity Design Innovations for Axion Dark Matter Searches	JACKSON, Heather
14:34	[215] The ALPHA axion dark matter experiment	GALLO ROSSO, Andrea
14:51	[267] QUAX: Probing Axion Dark Matter through quantum technologies	CARUGNO, Giovanni
15:08	[231] BREAD: Broadband Reflector Experiment for Axion Detection	KNIRCK, Stefan
15:26	[243] The axion dark matter experiment MADMAX	EGGE, Jacob
15:43	[165] Searching for sub- $\mu\text{eV}$ axions with DMRadio: Overview and Status	DROSTER, Alexander

### Parallel 3: Axion/Sterile (16:30 - 18:50)

-Conveners: Christoph Andreas Ternes

time	[id] title	presenter
16:30	[177] Status of the Quantum Sensors for the Hidden Sector (QSHS) Experiment	PERRY, Mitchell
16:47	[93] A new upper limit on the axion-photon coupling with an extended CAST run with a Xe-based Micromegas detector	MARGALEJO BLASCO, Cristina
17:04	[27] Searches of Axion/ALPs with (Baby)IAXO	VOGEL, Julia
17:21	[126] New results for searches of exotic decays with NA62 in beam-dump mode	SCHUBERT, Jonathan
17:38	[184] Searches for Physics Beyond the Standard Model at the Short-Baseline Near Detector	LUO, Xiao
17:55	[180] Searching for Dark Sector Particles in the NEON Experiment at a Reactor Facility	LEE, Seo Hyun
18:12	[268] keV sterile neutrinos search with the KATRIN experiment	ONILLON, Anthony

# Tuesday, 9 July 2024

## **Parallel 3: Light Dark Matter (14:00 - 16:00)**

-Conveners: Carla Macolino

time	[id] title	presenter
14:00	[37] Commissioning of the MIGDAL detector with fast neutrons at NILE/ISIS	MARLEY, Tim
14:20	[214] MIRACLUE: Migdal effect search using position sensitive gaseous detectors	NAKAMURA, Kiseki
14:40	[26] Light Dark Matter in Direct Detection: Plasmon and Migdal Effects	WU, Lei
15:00	[54] Improved modeling of charge trapping and impact ionization in phonon-based crystal detectors used for dark matter searches	WILSON, Matthew
15:20	[120] Theoretical upper bounds on the dark matter-electron scattering rate in the generalised susceptibility formalism	IGLICKI, Michał
15:40	[95] Effect of Ultralight Dark Matter on $g-2$ of the Electron	EVANS, Jason Lott

## **Parallel 3: Light Dark Matter (16:30 - 18:50)**

-Conveners: Paolo Agnes

time	[id] title	presenter
16:30	[263] Optimal anti-ferromagnets for light dark matter detection	ESPOSITO, Angelo
16:50	[239] Searching for Light Dark Matter with Narrow-Gap Semiconductors: The SPLENDOR Experiment	FINK, caleb
17:10	[16] Direct dark matter searches using ALPS II's TES detector system	SCHWEMMBAUER, Christina
17:30	[61] Development of phonon-mediated particle detectors with meV to eV energy thresholds for sub-GeV dark matter direct detection	RAMANATHAN, Karthik
17:50	[176] Dark Matter Induced Power in Quantum Devices	DAS, Anirban
18:10	[109] BULLKID-DM: searching for light WIMP with monolithic arrays of detectors	VIGNATI, Marco

# Wednesday, 10 July 2024

## Parallel 3: Axion/Sterile (14:00 - 16:20)

-Conveners: Carla Macolino

time	[id] title	presenter
14:00	[9] Indirect Detection of the QCD Axion: Resonant Conversion in Neutron Star Magnetospheres	VISINELLI, Luca
14:20	[12] Improved bounds on the hot QCD axion	GRILLI DI CORTONA, Giovanni
14:40	[129] Searching for axion dark matter from dwarf spheroidal galaxies and the Sun	TAOSO, Marco
15:00	[25] Electron Trap as Dark Matter Detector	WONG, Samuel S. Y.
15:20	[8] First results and future prospects of the Laser-Interferometric Detector for Axions (LIDA)	HEINZE, Joscha
15:40	[217] Current status and future plans of Dark matter Axion search with riNg Cavity Experiment (DANCE)	TAKIDERA, Hinata
16:00	[107] HyperLSW – Experimental Setups for Determining the Amount of Axion Dark Matter After a Discovery	HOOF, Sebastian

# Thursday, 11 July 2024

## **Parallel 3: Light Dark Matter (14:00 - 16:00)**

-Conveners: Carla Macolino

time	[id] title	presenter
14:00	[110] The Light Dark Matter eXperiment (LDMX)	ELÉN, Einar
14:20	[13] Searches for dark sector particles at Belle and Belle II	KIM, Doris Y
14:40	[250] The X17 search with the PADME experiment	MANCINI, Marco
15:00	[170] SPICE: a Solid State Dark Matter Direct Detection Experiment from the TESSERACT Collaboration	ROMANI, Roger
15:20	[213] Recent progress towards the HeRALD detector for light dark matter with superfluid helium	HASELSCHWARDT, Scott
15:40	[14] Prospects for DarkSide-20k sensitivity to light dark matter particles	VAN UFFELEN, Marie

## **Parallel 3: Light Dark Matter (16:30 - 18:50)**

time	[id] title	presenter
16:30	[167] Searching for Millicharged Particles from the eV to GeV mass scale with Skipper-CCDs	PEREZ, Santiago
16:50	[193] Oscura: a 10 kg skipper-CCD detector to search for dark matter	CERVANTES VERGARA, Brenda Aurea
17:10	[188] The DarkNESS mission: searching for dark matter with a Skipper-CCD satellite observatory	SAFFOLD, Nate
17:30	[112] Dark matter searches using low-energy data of Super-Kamiokande	CHOI, Koun
17:50	[172] Discovery potential of fermionic dark matter by using the Xe Charged Current tagging in KamLAND-Zen.	TACHIBANA, Koga
18:10	[105] Exploring the Low-Energy Spectrum of CUORE to Search for Solar Axions	RESSA, Alberto
18:30	[258] Boosted sub-GeV Dark Matter from Primordial Black Holes in DarkSide-50	CALABRESE, Roberta