



# ICHEP 2022

## Thursday, 7 July 2022

### Dark Matter - Room 11 (Magenta A) (09:00 - 10:45)

-Conveners: Marco Selvi

time	[id] title	presenter
09:00	[685] Thermal WIMPs and the Scale of New Physics	BENIWAL, Ankit
09:15	[618] Updating constraints on the decaying dark matter scenario	ALVI, Shahbaz Nihal Ahmed
09:35	[71] Post-Recombination Spectral Distortions from Dark Matter Energy Injection	QIN, Wenzer
09:50	[55] Blazar-Boosted Dark Matter	Mr GRANELLI, Alessandro
10:10	[1184] New Strategies and Targets for Probing of Velocity-Dependent Dark Matter Annihilation	KUMAR, Jason
10:25	[350] Soft Scattering Evaporation of Dark Matter Subhalos by Inner Galactic Gases	LIN, Yugen

### Dark Matter - Room 11 (Magenta A) (11:15 - 13:00)

-Conveners: Marco Selvi

time	[id] title	presenter
11:15	[373] Minimal Consistent Dark Matter Models for systematic Dark Matter exploration	BELYAEV, Alexander
11:30	[437] Bound-state effects for dark matter models: from the relic density to experimental searches	BIONDINI, Simone
11:50	[1361] Importance of Non-Perturbative Effects for the Exclusion or Discovery of Dark Matter Models	HARZ, Julia
12:05	[1311] Accidental composite dark matter in SU(5)-GUT theories	VERMA, Sonali
12:25	[1256] Dynamics of quarks and gauge fields in the lowest-energy states in QCD and QED	Prof. KOSHELKIN, Andrew
12:40	[349] A fermionic portal to vector dark matter from new gauge sector	THONGYOI, Nakorn

### Dark Matter - Room 11 (Magenta A) (14:30 - 16:30)

-Conveners: Priscilla Pani

time	[id] title	presenter
14:30	[297] The Higgs boson as a tool to search for Dark Matter in CMS	KHURANA, Raman
14:50	[298] Search for Dark Matter with mono-X Signatures in CMS	KUMAR, Deepak
15:10	[898] Dark Matter searches at LHCb	JOHNSON, Daniel
15:30	[772] Searches for dark matter with the ATLAS detector	SAIMPERT, Matthias
15:50	[809] Search for invisible particles produced in association with single-top-quarks with the ATLAS detector using Run-2 data	NAVARRO GONZÁLEZ, Josep
16:10	[931] Recent dark-sector results at Belle II	GRAZIANI, Enrico

**Dark Matter - Room 11 (Magenta A) (17:00 - 19:00)****-Conveners: Priscilla Pani**

time	[id] title	presenter
17:00	[18] The Light Dark Matter eXperiment, LDMX	HERDE, Hannah
17:20	[1034] New approach to DM searches with mono-photon signature	MEKALA, Krzysztof
17:40	[348] Phenomenology of the Dark Matter sector in the Two Higgs Doublet Model with Complex Scalar Singlet extension	DUTTA, Juhi
18:00	[372] $(g-2)_{e,\mu}$ and strongly interacting dark matter with collider implications	KHAN, Sarif
18:20	[321] Z'-mediated Majorana dark matter: complementarity of direct-detection and LHC searches	Dr FIASCHI, Juri
18:40	[1013] Coscattering in micrOMEGAs: a case study for the singlet-triplet dark matter model	ALGUERO, Gaël

# Friday, 8 July 2022

## Dark Matter - Room 11 (Magenta A) (09:00 - 10:45)

-Conveners: Priscilla Pani

time	[id] title	presenter
09:00	[974] Sterile neutrino dark matter in the super-weak model	SELLER, Károly
09:15	[1005] Leptogenesis from a feebly interacting dark matter sector	CHAND, Suresh
09:35	[1291] Model independent bounds for elusive Dark Sectors at neutrino experiments	COSTA, Marco
09:50	[424] Massive Gravitons as Feebly Interacting Dark Matter Candidates	LEE, Seung J.
10:10	[1350] Explorations of pseudo-Dirac dark matter having keV splittings and interacting via transition electric and magnetic dipole moments	CHATTERJEE, Shiuli
10:25	[1287] Closing the window on WIMP dark matter	BOTTARO, Salvatore

## Dark Matter - Room 11 (Magenta A) (14:30 - 16:30)

-Conveners: koun choi

time	[id] title	presenter
14:30	[334] Multi-messenger constraints on the dark matter interpretation of the Fermi-LAT Galactic center excess	DI MAURO, Mattia
14:50	[702] Search for Gamma-ray Spectral Line emission from Dark Matter Annihilation up to 100 TeV towards the Galactic Centre with MAGIC	Dr INADA, Tomohiro
15:10	[736] Towards Understanding the Origin of Cosmic-Ray Positrons	KRASNOPEVTSEV, Dimitrii
15:30	[845] Antiproton Flux and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS	CHOU, Hsin-Yi
15:50	[1181] Search for dark matter signatures in ANTARES neutrino data	GOZZINI, Sara Rebecca
16:10	[1386] dark matter searches in the centre of the Milky Way with IceCube	Dr IOVINE, Nadège

## Dark Matter - Room 11 (Magenta A) (17:00 - 19:00)

-Conveners: koun choi

time	[id] title	presenter
17:00	[278] In Search of Cosmic-Ray Antinuclei from Dark Matter with the GAPS Experiment	XIAO, Mengjiao
17:20	[140] The dark side of ALICE: from antinuclei interactions to dark matter searches in space	COLOCCI, Manuel
17:40	[1087] Re-Analysis of 3.5 keV line	PARK, Yujin
18:00	[91] Signatures of leptophilic t-channel dark matter from active galactic nuclei	Dr CERMEÑO GAVILÁN, Marina
18:20	[595] Capture of DM in Compact Stars	BUSONI, Giorgio
18:40	[1312] Indirect search for sub-GeV dark matter with neutrino telescopes	OKAWA, Shohei

## Saturday, 9 July 2022

### Dark Matter - Room 11 (Magenta A) (09:00 - 10:45)

-Conveners: Marco Selvi

time	[id] title	presenter
09:00	[402] Sub-GeV Dark Matter search with CRESST-III	PATTAVINA, Luca
09:20	[799] Searching for Sub-GeV Dark Matter with SENSEI	BOTTI, Ana Martina
09:40	[1021] Status of the DAMIC-M dark matter experiment	CASTELLO-MOR, Nuria
10:00	[325] Searching for Light Dark Matter with Aligned Carbon Nanotubes: the ANDROMeDa Project	CAVOTO, Gianluca
10:20	[423] NEWS-G searches for light dark matter: Results with a hydrogen-rich target	NIKOLOPOULOS, Konstantinos

### Dark Matter - Room 11 (Magenta A) (11:15 - 13:00)

-Conveners: Marco Selvi

time	[id] title	presenter
11:15	[474] Update on dark matter searches after five years of data taking in NaI crystals at COSINE-100	NEAL, Robert
11:35	[442] Status and prospects for SABRE North	Dr TOMEI, Claudia
11:55	[937] The COSINUS dark matter search with cryogenic NaI detectors	EINFALT, Leonie
12:15	[47] The NEWSdm experiment for directional dark matter searches	ASADA, Takashi
12:35	[1024] The CYGNUS Galactic Directional Recoil Observatory	BARACCHINI, Elisabetta

### Dark Matter - Room 11 (Magenta A) (14:30 - 16:30)

-Conveners: koun choi

time	[id] title	presenter
14:30	[1073] Latest results from DEAP-3600	MCLAUGHLIN, Joseph
14:50	[868] DarkSide-20k and the Future Liquid Argon Dark Matter Program	WANG, Yi
15:10	[327] Status of the XENONnT dark matter experiment	DI GANGI, Pietro
15:30	[1056] The LUX-ZEPLIN (LZ) experiment	COTTLE, Amy
15:50	[697] Recent progress and plan of PandaX experiment	LIN, Qing
16:10	[701] Dark matter search to the limits: the DARWIN experiment	MACOLINO, Carla

### Dark Matter - Room 11 (Magenta A) (17:00 - 19:00)

-Conveners: koun choi

time	[id] title	presenter
17:00	[1067] Searching for dark matter with the PICO bubble chambers	VAZQUEZ-JAUREGUI, Eric
17:20	[1375] Latest Results from the PROSPECT Reactor Antineutrino Experiment Including Limits on Sub-GeV Boosted Dark Matter	WEATHERLY, Pierce

17:40	[14] Xenon-1T excess as a possible signal of a sub-GeV hidden sector dark matter	KLASEN, Michael
18:00	[1102] MIGDAL: Towards an unambiguous observation of the Migdal effect in nuclear scattering	KATSIOULAS, Ioannis
18:20	[1300] Dark Matter Data Center	BANERJEE, Heerak