

2021 Meeting of the Division of Particles and Fields of the American Physical Society (DPF21)

Monday, 12 July 2021

Dark Matter: DM 1D - Track D (14:30 - 16:00)

-Conveners: Ivan Esteban; Suho Kim; Hooman Davoudiasl

time	[id] title	presenter
14:30	[394] Global First of Direct Dark Matter Effective Field Theories with GAMBIT	CORNELL, Jonathan
14:45	[330] Studying dark matter with MadDM: Lines and loops	Mr MASSARO, Daniele
15:00	[15] Experimental signatures of a new dark matter WIMP	ALLEN, Roland
15:15	[41] Testing freeze-in with Z bosons	GRAY, Taylor
15:30	[299] Freezing In with Lepton Flavored Fermions	CHATTERJEE, Shiuli
15:45	Break	

Dark Matter: DM 1K - Track K (14:30 - 16:00)

-Conveners: Muti Wulansatiti; Zhengkang Zhang; Robert Group

time	[id] title	presenter
14:30	[223] Dark Matter Search Results from DAMIC at SNOLAB	PIERS, Alexander
14:45	[270] Backgrounds and Shielding for SuperCDMS SNOLAB	NELSON, Jack
15:00	[387] Improved Background Rate and Coincident Event Removal in SuperCDMS HVeV Run 3	ARALIS, Taylor
15:15	[52] Diamond detector for dark matter direct detection	YU, To Chin
15:30	[309] HeRALD: Dark Matter Direct Detection with Superfluid ^4He	PATEL, Pratyush
15:45	[360] Dark Matter Absorption via Electronic Excitations Revisited	TRICKLE, Tanner

Dark Matter: DM 2D - Track D (16:15 - 17:45)

-Conveners: Doojin Kim; Purbita Rahman Prova; Bhaskar Dutta

time	[id] title	presenter
16:15	[81] Self-interacting Dark Matter with Scalar Dilepton Mediator	KAO, Chung
16:30	[161] Resonant Self Interacting Dark Mesons from Hidden QCD	Dr TSAI, Yu-Dai
16:45	[313] Continuum-Mediated Self-Interacting Dark Matter	CHAFFEY, Ian
17:00	[247] Self-interacting dark matter from late decays and the H_0 tension	JODLOWSKI, Krzysztof
17:15	[145] Baryons and Dark Matter from Dark Phase Transitions	MCGEHEE, Robert
17:30	Break	

Dark Matter: DM 2K - Track K (16:15 - 17:45)

-Conveners: Muti Wulansatiti; Zhengkang Zhang; Robert Group

time	[id] title	presenter
16:15	[401] The XENONnT experiment	HIGUERA, Aaron
16:30	[36] Progress toward building a pair of scintillating bubble chambers for WIMPs and reactor CEvNS	Dr COPPEJANS, Rocco
16:45	[292] Dark Matter and Reactor CEvNS Physics Reach with SBC Liquid Argon Bubble Chambers	NEILSON, Russell NEILSON, Russell
17:00	[193] Superfluid EFT for sub-GeV dark matter detection	YOU, Yining
17:15	[371] Windchime: Gravitational Direct Detection of Dark Matter	Dr LI, Shengchao
17:30	Break	

Tuesday, 13 July 2021

Dark Matter: DM 3D - Track D (14:30 - 16:00)

-Conveners: Caterina Doglioni; Zhengkang Zhang

time	[id] title	presenter
14:30	[262] Latest axion search results from ADMX	NITTA, Tatsumi
14:45	[320] The CASPER and SHAFT searches for ultralight axion-like dark matter	SUSHKOV, Alexander
15:00	[374] Controlling relaxation of nuclear spin qubit ensembles for a more sensitive search for axion-like dark matter	ADAM, Janos
15:15	[27] THz Photon Source Testing for the BREAD Experiment	DONA, Kristin Marie
15:30	[50] Cosmological Simulations of Axion String Radiation	FOSTER, Joshua
15:45	Break	

Dark Matter: DM 3K - Track K (14:30 - 16:00)

-Conveners: Barmak Shams Es Haghi; Bertrand Echenard

time	[id] title	presenter
14:30	[7] The Light Dark Matter eXperiment, LDMX	DUTTA, Valentina
14:45	[245] The LDMX Trigger Scintillator system	Mr GOGATE, Niramay
15:00	[362] The Heavy Photon Search experiment: summary and recent developments for the 2019 Data Run	SPELLMAN, Alic
15:15	[290] Search for Accelerator-produced Dark Matter with the Coherent CAPTAIN Mills detector	DUNTON, Edward
15:30	[269] Using Underground Nuclear Accelerators in the Quest for Dark Matter	MOORE, Marianne
15:45	[304] g-2 Dark Sector Portal: $U(1)_{\{L\mu-L\tau}}$ Solution to Dark Matter	HAPITAS, Timothy

Dark Matter: DM 4D - Track D (16:15 - 17:45)

-Conveners: Zhengkang Zhang; LianTao Wang

time	[id] title	presenter
16:15	[390] A cosmological dark matter collider experiment	Prof. CYR-RACINE, Francis-Yan
16:30	[378] Gas-rich dwarf galaxies as powerful sub-GeV dark matter detectors	Dr WADEKAR, Digvijay
16:45	[219] Celestial-Body Focused Dark Matter Annihilation Throughout the Galaxy	MUKHOPADHYAY, payel
17:00	[235] Stellar Shocks From Dark Matter	ZHOU, Kevin
17:15	[267] Improved Treatment of Dark Matter Capture in Neutron Stars: Leptonic and Baryonic Targets	VIRGATO, Michael
17:30	[268] Multi-component multiscatter capture of Dark Matter	LEVY, Caleb

Wednesday, 14 July 2021

Dark Matter: DM 5D - Track D (14:30 - 16:00)

-Conveners: Joshua Foster; Hong Ma

time	[id] title	presenter
14:30	[124] Dark matter and neutrino mass in the radiative seesaw model	KHAN, Najimuddin
14:45	[47] Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV	YUAN, Siqi
15:00	[142] Search for Dark Matter from Baryon Number Violation Process in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV.	MUTHUMUNI, Samila
15:15	[83] A tri-muon trigger for pair-production of dark photons with the CMS Experiment at the HL-LHC	KARCHIN, Paul Edmund
15:30	[137] Search for dark matter in events with missing transverse momentum and a Higgs boson decaying to a photon pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	QIAN, Yan
15:45	[188] Search for Higgs boson decays to invisible final states produced in vector boson fusion (+photon) with the ATLAS detector	HONG, Tae Min

Dark Matter: DM 6D - Track D (16:15 - 17:45)

-Conveners: Joshua Foster; maria monzani

time	[id] title	presenter
16:15	[278] Effects of Primordial Black Holes on Dark Matter Models	SHAMS ES HAGHI, Barmak
16:30	[279] Asymmetric Reheating by Primordial Black Holes	SHAMS ES HAGHI, Barmak
16:45	[236] Low-mass primordial black holes as the dark matter candidate	LAHA, Ranjan
17:00	[19] Strong constraints on thermal relic dark matter from Fermi-LAT observations of the Galactic Center	KEELEY, Ryan
17:15	[231] The Cherenkov Telescope Array: probing fundamental Physics with the next-generation observatory for very-high-energy gamma rays	CAPASSO, Massimo
17:30	[328] A search for dark matter using sub- PeV γ -rays observed by Tibet ASy	MAITY, Tarak Nath