

Tuesday 28 March

19:00

Reception and Poster Session in the same room

Session | **Location:** Faculty Center

19:00-19:01 Detection of dark matter-baryon matter non-gravitational interaction

Speaker

Marco Fedi

19:01-19:02

Developing Qubit-based Detectors for Low-threshold Dark Matter Searches in the **LOUD Facility at Fermilab**

Speaker

Ryan Linehan

19:02-19:03

Toward a Dark Matter Search with Phonon-Mediated MKID Devices at NEXUS

Speaker

Dylan Temples

19:03-19:04

Amplified J-factors in the Galactic Center for velocity-dependent darkmatter annihilation in FIRE simulations

Speaker

Daniel Mckeown

19:04-19:05

Interpretation of modulating amplitude and phase from the DAMA/LIBRA analysis method

Speaker

Sophia Hollick

19:05-19:06

Primordial Black Hole and Gravitational Wave Production from ALP String-Wall **Networks**

Speakers

ANNA SIMPSON, Jonah Hyman

19:06-19:07

Halo-independent analysis of direct DM detection through electron scattering

Speaker

Muping Chen

19:07-19:08 Calibrating the DMRadio-50L Detector

Speaker

Jessica Fry

19:08-19:09

Searching for Dark Matter From The Sun With Ten Years of IceCube Data

Speaker

Jeffrey Lazar

19:09-19:10

Xenoscope — a full-scale vertical demonstrator for the DARWIN observatory

Speaker

Laura Baudis

19:10-19:11

Exploration of Wire-Array Metamaterials for the Plasma Axion Haloscope

Speaker

Nolan Kowitt

19:11-19:12 A mobile neutron spectrometer for the LNGS underground laboratory

Speaker

Melih Solmaz

19:12-19:13

Towards Quantum Charge Parity Detectors with meV Resolution for sub-GeV Dark **Matter Detection**

Speaker

Karthik Ramanathan

19:13-19:14 Backgrounds from Frenkel defects in direct detection experiments

Speaker

Mukul Sholapurkar

19:14-19:15 Calibrating the Migdal Effect in Semiconductors

Speaker

Daniel Baxter

19:15-19:16

Low energy calibration and characterization of solid-state dark matter detectors

Speaker

Kelly Stifter

19:16-19:17 Status for COSINE-100 Upgrade and COSINE-200

Speaker

Kim Jinyoung

19:17-19:18 A signal search for the dark axion portal in the NEON experiment

Speaker

Byoung-cheol KOH

19:18-19:19

Experimental tests for the fundamental properties of the electron with COSINE-100

Speaker

Yujin Lee

19:19-19:20 DMRadio-50L Experiment Status and Overview

Speaker

Alexander Friedrich Leder

19:20-19:21 DMRadio-m3: An Overview

Speaker

Nicholas M. Rapidis

19:21-19:22 Observing gravitational waves at sub-nanohertz frequencies

Speaker

William De Rocco

19:22-19:23

Potential for definitive discovery of a 70 GeV dark matter WIMP with only secondorder gauge couplings

Speaker

Roland Allen

19:23-19:24

Searching for Light Dark Matter with Narrow-gap Semiconductors - the SPLENDOR **Experiment**

Speaker

Samuel Watkins

19:24-19:25 Searches of light dark matter and B8 neutrino events at PandaX-4T

Speaker

Shuaijie Li

19:25-19:26 The first Stars in the Universe as Dark Matter Laboratories

Speaker

Cosmin Ilie

19:26-19:27

Peering into the Gap: Learning about Dark Matter from the Pair Instability Mass Gap

Speaker

Joshua Ziegler

19:27-19:28

Kinetic Simulations of Collisionless Shock Formation in the Dark Sector

Speaker

Pierce Giffin

19:28-19:29

Analyzing High-Redshift Galaxy Candidates as Supermassive Dark Star Candidates with JWST Data

Speaker

Jillian Paulin

19:29-19:30 Probing Dark Matter with exoplanets

Speaker

Caleb Levy

19:30-19:31

Searching for High-Frequency Gravitational Waves with ABRACADABRA-10cm

Speaker

Kaliroe Pappas

19:31-19:32

S8 Tension in the Context of Dark Matter-Baryon Scattering

Speaker

Adam He

19:32-19:33

Structure Formation and the Global 21-cm Signal in the Presence of Coulomb-like **Dark Matter-Baryon Interactions**

Speaker

George Driskell

19:33-19:34

Recent progress on BSM and dark matter searches in CUORE

Speaker

Rebecca Kowalski

19:34-19:35

Extremes in Mixing Angle Space: Constraining Sterile Neutrinos for the Next **Generation of Searches**

Speakers

Cannon Vogel, Helena Garcia Escudero

19:35-19:36 Core Collapse in Self-Interacting Dark Matter Halos

Speakers

Maya Silverman, Sophia Gad-Nasr

19:36-19:37

Corrections to Hawking Radiation from Asteroid Mass Primordial Black Holes: I. Formalism of Dissipative Interactions in Quantum Electrodynamics

Speaker

Gabriel Vasquez

19:37-19:38

New technologies for future direct detection LXe TPCs: a large-diameter test platform and hermetic TPC

Speaker

Adam Brown

19:38-19:39

Dark matter particle mass and properties from scaling laws in galaxy rotation curves and N-body simulations

Speaker

Zhijie (Jay) Xu

20:00