

Session Program

29 March 2023 to 1 April 2023

UCLA Dark Matter 2023

***SESSION 9: Dark Matter Theory (CHAIRS:
Volodymyr Takhistov- QUP-KEK, Japan, and
Edoardo Vitagliano- Hebrew U. of Jerusalem,
Israel)***

UCLA, PAB- 1-425

UCLA Department of Physics and Astronomy 475 Portola Plaza, Los Angeles, CA 90095

Thursday 30 March

16:30

SESSION 9: Dark Matter Theory (CHAIRS: Volodymyr Takhistov- QUP-KEK, Japan, and Edoardo Vitagliano- Hebrew U. of Jerusalem, Israel)

Session |

Location: UCLA, PAB- 1-425, UCLA Department of Physics and Astronomy 475 Portola Plaza, Los Angeles, CA 90095

16:30–16:45

Strong Supernova 1987A Constraints on Bosons Decaying to Neutrinos

Speaker

Edoardo Vitagliano

16:45–17:00

Cosmology of Axion Rotation

Speaker

Keisuke Harigaya

17:00–17:15

Dark matter direct detection from single phonons to nuclear recoils

Speaker

Tongyan Lin

17:15–17:30

Light thermal dark matter and MeV gamma-ray observation

Speaker

Dr Shigeki Matsumoto

17:30–17:45

New Constraints on Dark Matter, Cosmic Neutrino Profiles, and Neutrino Masses through Gravity and Quantum Sensors

Speaker

Yu-Dai Tsai

17:45–18:00

Axion detection with optomechanical cavities

Speaker

Clara Murgui

18:00–18:15

SUSY dark matter: waxing, not waning

Speaker

Howard Baer

18:15–18:30

Dark Matter Direct Detection and Collider Search Complementarity

Speaker

Sven Heinemeyer

18:30–18:45

Spin 3/2 FIMP: direct detection and collider bounds

Speaker

Francesco Costa

18:45–19:00

Constraints on Spin dependent and Spin Independent Dark Matter-Electron Scattering

Speaker

Mukesh Kumar Pandey

19:00–19:15

Experimental signatures for direct, indirect, and collider detection of a 70 GeV dark matter WIMP with precisely-defined second-order gauge couplings

Speaker

Roland Allen

19:15