

Session Program

15-17 May 2019

**The Mitchell Conference on Collider, Dark
Matter, and Neutrino Physics 2019**

Dark Matter

Thursday 16 May

09:00

Dark Matter: X-rays and Neutron Stars

Session

09:00–09:25

ALPs: What can we learn from neutron stars and X-ray astronomy?

Speaker

Kuver Sinha

09:25–09:50

Probing axions with X-ray observations of magnetic white dwarfs

Speaker

Andrew Long

09:50–10:15

Heating up Neutron Stars with Dark Matter

Speaker

Nicole Bell

10:15

13:30

Dark Matter: Terrestrial Searches

Session

13:30–13:55

Searching for Boosted Dark Matter via Dark-Strahlung

Speaker

Doojin Kim

13:55–14:20

Gas Clouds as Dark Matter Detectors

Speaker

Joseph Bramante

14:20–14:45

Seeing the Light of Dark Matter

Speaker

Graham Kribs

14:45

15:10

Dark Matter: Gamma Rays and Gravity Waves

Session

15:10–15:35

Gamma-Ray Signals From Velocity-Dependent Dark Matter Annihilation

Speaker

Jason Kumar

15:35–16:00

Probing Exotic(Dark) Compact Objects with Extreme Mass Ratio Inspirals

Speaker

Huaikuo Guo

16:00–16:25

Gamma-ray observations of M31 and dark matter implications

Speaker

Prof. Simona Murgia

16:25

16:50

Dark Matter: Astrophysics and Cosmology

Session

16:50–17:15

Astrophysical Aspects of Secretly Asymmetric Dark Matter

Speaker

Can Kilic

17:15–17:40

Co-Decaying Dark Matter and its Cosmological Signatures

Speaker

Brandon Melcher

17:40–18:05

Dark Matter In and Out of Equilibrium

Speaker

Dr Julia Shelton

18:05