

Session Program

21-23 May 2018

**The Mitchell Conference on Collider, Dark
Matter, and Neutrino Physics 2018**

Dark Matter

Monday 21 May

09:00

Dark Matter Session

09:00–09:20

Astrophysical and Dark Matter Origin of the IceCube High-energy Neutrino Events

Speaker

Dr Bhupal Dev

09:20–09:40

Concentrated Dark Matter

Speaker

Prof. Scott Watson

09:40–10:00

Astrophysical Signatures of Dark Matter Accumulation in Neutron Stars

Speaker

Dr Tim Linden

10:00

Tuesday 22 May

16:40

Dark Matter

Session

16:40–17:00 **Bremsstrahlung in dark matter direct detection**

Speaker

Dr Jayden Newstead

17:00–17:20

Reaching Beyond the Standard Scenarios: From Strongly Coupled Dark Sectors and Thermal Freezeout to Cosmological Phase Transitions and the Lifetime Frontier

Speaker

Prof. Keith Dienes

17:20–17:40

Lines, Boxes, and Conveyor Belts: Deciphering Astrophysical and Cosmological Imprints of Extended Dark Sectors

Speaker

Prof. Brooks Thomas

17:40