

Session Program

12 November 2022

PIKIMO 13

Talks

Saturday 12 November

10:00

Talks

Session | Location:

10:00–10:45 **Quantum sensors in space for DM detection**

Speaker

Prof. Marianna Safronova

10:50–11:02 **The Molecular Migdal Effect**

Speaker

Ian Harris

11:05–11:17 **Thermal Misalignment of Scalar Dark Matter**

Speaker

Mudit Rai

11:20–11:32

Towards a unified treatment of $\Delta S=0$ parity violation in low-energy nuclear processes

Speaker

Girish Muralidhara

11:45

13:30

Talks

Session | Location:

13:30–14:15 **A Next Generation Search of the Neutron EDM**

Speaker

Wolfgang Korsch

14:20–14:32 **The Ellipse of Muon Dipole Moments**

Speaker

Sangsik Yoon

14:35–14:47 **Phenomenology of Inclusive $B \rightarrow X_{sll}$ for the Belle II Era**

Speaker

Jack Jenkins

14:50

15:15

Talks

Session | Location:

15:15–15:27 **Accessing CKM suppressed top decays at the LHC**

Speaker

Manuel Szewc

15:30–15:42 **TXS 0506+056 Through an Updated Neutrino Lens**

Speaker

William Luszczyk

15:45-15:57 **Particle Physics at UltraHigh Neutrino Energies**

Speaker
Ivan Esteban

16:00-16:12 **Isotopic Composition of Light Cosmic Rays with HELIX**

Speaker
Dr Keith McBride

16:15

16:40

Talks

Session | Location:

16:40-16:52 **Constraining Baryon Number Violation with Neutron Stars**

Speaker
Mohammadreza Zakeri

16:55-17:07 **Probing Axionic Instabilities in the late Universe via CMB-B mode**

Speaker
Dr Subhajit Ghosh

17:10-17:22 **Wasserstein distance as a measure of CP violation**

Speaker
Tony Menzo

17:25-17:37 **MLHad: A Machine Learning based simulation for Hadronization**

Speaker
Ahmed Youssef

17:40