

Session Program

17-19 Dec 2025



TPPC 2025 THEORY RETREAT

Talks

VAL DI LUCE

Wednesday 17 December

16:00

Talks

Session | Location: VAL DI LUCE

16:00–16:25 **Minimal Dark Matter in the sky**

Speaker

Giulio Marino

16:30–16:55 **Higgsino Dark Matter**

Speaker

Prudhvi Nikhil Bhattiprolu

17:00–17:30 **Coffee break**

17:30–17:55 **Inflation and Naturalness**

Speaker

Pier Giuseppe Catinari

18:00–18:25

The fast, the slow and the merging: probes of evaporating memory burdened PBHs

Speaker

Michael Zantedeschi

18:30

Thursday 18 December

09:00

Talks

Session | Location: VAL DI LUCE

09:00–09:25 **Wash-in Leptogenesis**

Speaker

Martin Mojahed

09:30–09:55 **Generating the baryon asymmetry via cosmological CP breaking**

Speaker

Mateusz Duch

10:00–10:30 **Coffee break**

10:30–10:55 **Electroweak baryogenesis without dipole moments**

Speaker

Majid Ekhterachian

11:00–11:25 **Rescuing 331 bi-leptons from the Landau pole**

Speaker

Giovanna Paola Perdona'

11:30

16:00

Talks

Session | Location: VAL DI LUCE

16:00–16:25 **Evolving Dark Matter: Coupled Dark Sector in Light of DESI Data**

Speaker

Lorenzo La Penna

16:30–16:55 **High-energy neutrinos from dark matter around blazars**

Speaker

FILIPPO SALA

17:00–17:30 **Coffee break**

17:30–17:55 **Ultra-high-energy neutrinos at KM3NeT**

Speaker

Michele Tammaro

18:00–18:25

Exploring neutrino compositeness: emerging and invisible jets at neutrino and charged lepton beams

Speaker

Matteo Borrello

18:30

Friday 19 December

09:30

Talks

Session | **Location:** VAL DI LUCE

09:30–09:55 **Testing the arrow of time at the cosmological collider**

Speaker

Alessandro Strumia

10:00–10:25 **Constraints on gravitational EFT from quasi-normal modes**

Speaker

Leonardo Juliano

10:25–10:55 **Coffee break**

11:00–11:25 **Bounds on ultralight dark matter from NANOGrav**

Speaker

Alessandro Dondarini

11:30–11:55

Hydrogenated carbon structures as optimal sub-GeV dark matter detectors

Speaker

Angelo Esposito

12:00