

## **Session Program**

30 mai 2022 à 3 juin 2022

## **Planck 2022**

### ***Parallel Session 1***

Ministry of research, Amphithéâtre Poincaré  
25 rue de la Montagne Sainte Geneviève, 75005 Paris

lun. 30 mai

14:00

Parallel Session 1: Dark Matter

Session | Site: Stourdzé | Convener: Lucien Heurtier

14:00 – 14:20 Closing the window on WIMP dark matter models

Orateur  
Salvatore BOTTARO

14:20 – 14:40 A final word on Electroweak WIMPs at future lepton colliders

Orateur  
Marco COSTA

14:40 – 15:00 Natural supersymmetric dark matter in Twin Higgs models

Orateur  
Marcin BADZIAK

15:00 – 15:20  
Phenomenology of the Dark Matter sector in the Two Higgs Doublet Model with Complex Scalar Singlet extension

Orateur  
Juhi DUTTA

15:20 – 15:40 A fermionic portal to a non-abelian dark sector

Orateur  
Luca PANIZZI

15:40

16:10

Parallel Session 1: Dark Matter

Session | Site: Stourdzé | Convener: Mathias Pierre

16:10 – 16:30 Higgsino DM

Orateur  
Antonio Delgado

16:30 – 16:50  
Matching resummed endpoint and continuum gamma-ray spectra from dark-matter annihilation

Orateur  
Kai URBAN

16:50 – 17:10 Attenuation of Cosmic-Ray Up-Scattered Dark Matter

Orateur  
Helena KOLESOVA

17:10 – 17:30 Gravitational focusing of Wave Dark Matter

Orateur  
Alessandro LENOCI

17:30 – 17:50 Dark Matter from Exponential Growth

Orateur  
Paul Frederik DEPTA

17:50

## mer. 1 juin

14:00

**Parallel Session 1: Dark Matter**

Session | Site: L005 | Convener: Seung J. Lee

**14:00 – 14:20** Connection between Dark Matter and flavor anomalies**Orateur**

Giorgio ARCADI

**14:20 – 14:40** SUSY explanation of the muon g-2 anomaly with and without stable neutralino**Orateur**

Kazuki SAKURAI

**14:40 – 15:00** Cosmological Constraints on MeV-scale New Mediators**Orateur**

Yuhei NAKAYAMA

**15:00 – 15:20** Thermal regularization of t-channel singularities in cosmology**Orateur**

Michał IGLICKI

**15:20 – 15:40** Sommerfeld Effect and Bound State Formation in Simplified Dark Matter Models**Orateur**

Emanuele COPELLO

15:40

16:10

**Parallel Session 1: Dark Matter**

Session | Site: L005 | Convener: Donald Kpacha

**16:10 – 16:30** Hadronic Footprint of Light Vector Mediators**Orateur**

Peter REIMITZ

**16:30 – 16:50** Searching for dilaton fields in the Ly-alpha forest**Orateur**

Louis HAMAIDE

**16:50 – 17:10** TBA**17:10 – 17:30** TBA

17:30

## jeu. 2 juin

14:00

### Parallel Session 1: Dark Matter

Session | Site: Amphithéâtre Poincaré | Convener: Alexander Kusenko

14:00 – 14:20 Cosmological signatures of early dark matter production

**Orateur**  
Mathias PIERRE

14:20 – 14:40 Cosmological Stasis in the Early Universe

**Orateur**  
Lucien HEURTIER

14:40 – 15:00 Higgs-boson induced reheating and ultraviolet freeze-in dark matter

**Orateur**  
Anna SOCHA

15:00 – 15:20 Gravitational portals in the early Universe

**Orateur**  
Simon Clery

15:20 – 15:40 A model independent probe for dark sectors at neutrino experiments

**Orateur**  
Sonali Verma

15:40

16:10

### Parallel Session 1: Dark Matter

Session | Site: Amphithéâtre Poincaré | Convener: Giorgio Arcadi

16:10 – 16:30 Fingerprints of freeze-in dark matter in an early matter-dominated era

**Orateur**  
Avik BANERJEE

16:30 – 16:50 Impact of bound states on non-thermal dark matter production

**Orateur**  
Julian BOLLIG

16:50 – 17:10 Sequential freeze-in of light dark matter and its possible probes

**Orateur**  
Sreemanti CHAKRABORTI

17:10 – 17:30 Continuum Dark Matter

**Orateur**  
Seung J. Lee

17:30 – 17:50 TBA

17:50