

## **Session Program**

**May 2 - 5, 2023**



## **Progress on Old and New Themes in cosmology (PONT) 2023**

### ***Astrophysical messengers of fundamental physics: Contributed talks***

Palais des papes, Avignon, Chambre du Trésorier

# Fri, May 5

2:30 PM

## Astrophysical messengers of fundamental physics: Contributed talks

**Session** | **Location:** Palais des papes, Avignon, Chambre du Trésorier

14:30 - 14:50

### First neutrino telescope dedicated search for DM induced neutrino lines

**Speaker**

Thomas Hambye

**Location**

Palais des papes, Avignon, Chambre du Trésorier

14:50 - 15:10

### CR antinuclei predictions and their detectability in the next years

**Speaker**

Pedro De la Torre Luque

**Location**

Palais des papes, Avignon, Chambre du Trésorier

15:10 - 15:30

### Probing Axions through Tomography of Anisotropic Cosmic Birefringence

**Speaker**

Alessandro Greco

**Location**

Palais des papes, Avignon, Chambre du Trésorier

15:30 - 15:50

### Quasi-extremal primordial black holes are a viable dark matter candidate

**Speaker**

Matteo Lucca

**Location**

Palais des papes, Avignon, Chambre du Trésorier

15:50 - 16:10

### Did black holes in the very early universe induced the formation of the first Pop III stars?

**Speaker**

Dr Felix Mirabel

**Location**

Palais des papes, Avignon, Chambre du Trésorier

16:10 - 16:40

### Coffee break

16:40 - 17:00

### Black Holes as Probes for Ultralight Dark Matter

**Speaker**

Bruno Buccioti

**Location**

Palais des papes, Avignon, Chambre du Trésorier

17:00 - 17:20

**Ultra-Light Dark Matter: Current Constraints and Future Possibilities****Speaker**

Emily Kendall

**Location**

Palais des papes, Avignon, Chambre du Trésorier

17:20 - 17:40

**Exploring the Role of Self-Interacting Scalar Dark Matter in Dynamical Friction and GW Emission****Speaker**

Alexis Boudon

**Location**

Palais des papes, Avignon, Chambre du Trésorier

17:40 - 18:00

**Strong electroweak phase transition and simplified dark matter models****Speaker**

Philipp Schicho

**Location**

Palais des papes, Avignon, Chambre du Trésorier

18:00 - 18:20

**Solitons and halos for self-interacting scalar dark matter****Speaker**

Raquel Galazo

**Location**

Palais des papes, Avignon, Chambre du Trésorier

18:20 - 18:40

**Exploring the Dark Sector (non-abelian DM-DR interaction)****Speaker**

Asmaa Mazoun

**Location**

Palais des papes, Avignon, Chambre du Trésorier

6:40 PM