

## **Session Program**

**25-29 Jul 2022**



# **27th International Symposium on Particles, Strings and Cosmology**

## ***Plenary Session***

Max Planck Institute for Nuclear Physics, Heidelberg, Germany  
Saupfercheckweg 1 69117 Heidelberg Germany

# Tuesday 26 July

09:00

## Plenary Session: 2

**Session** | **Location:** Main Lecture Hall | **Convener:** Gia Dvali

09:00–09:30 **New Physics, Effective Field Theories, and On-Shell Methods**

**Speaker**

Alex Pomarol

09:30–10:00 **Cosmological Naturalness**

**Speaker**

Daniele Teresi

10:00–10:30 **The flavour puzzle as a vacuum problem**

**Speaker**

Ferruccio Feruglio

10:30

# Wednesday 27 July

09:00

## Plenary Session: 3

**Session** | **Location:** Main Lecture Hall | **Convener:** Arthur Hebecker

09:00–09:30

### The Quantum Gravity Swampland and Particle Physics

**Speaker**

Luis Ibanez

09:30–10:00

### String Cosmology

**Speaker**

Alexander Westphal

10:00–10:30

### Gravitational-wave observations and populations of binary compact objects

**Speaker**

Michela Mapelli

10:30

# Thursday 28 July

09:00

## Plenary Session: 4

**Session** | **Location:** Main Lecture Hall | **Convener:** Alex Pomarol

09:00–09:30 **Precision Sensors for Axion Dark Matter and Beyond**

**Speaker**

Asher Berlin

09:30–10:00 **New Ideas on Axion and ALPs**

**Speaker**

Keisuke Harigaya

10:00–10:30 **Cosmic Neutrinos**

**Speaker**

Joachim Kopp

10:30

14:00

## Plenary Session: 5

**Session** | **Location:** Main Lecture Hall | **Convener:** Luis Ibanez

14:00–14:30 **Phase Transitions and Gravitational Waves: New Ideas**

**Speaker**

Pedro Schwaller

14:30–15:00 **JWST Physics Potential**

**Speaker**

Thomas Kai Henning

15:00–15:45 **The Hubble Tension**

**Speaker**

Adam Riess

15:45

# Friday 29 July

09:00

## Plenary Session: 6

**Session** | **Location:** Main Lecture Hall | **Convener:** Dan Hooper

09:00–09:30 **Primordial Black Holes**

**Speaker**  
Florian Kühnel

09:30–10:00 **Strings, Dark Sectors & Axions**

**Speaker**  
Michele Cicoli

10:00–10:30 **Testing the Dark Sector in the Laboratory**

**Speaker**  
Felix Kling

10:30

14:00

## Plenary Session: 8

**Session** | **Location:** Main Lecture Hall | **Convener:** Alexei Smirnov

14:00–14:30 **Neutrino properties from cosmology**

**Speaker**  
Licia Verde

14:30–15:00 **Signs of WIMPs? And New Ideas for Dark Matter**

**Speaker**  
Dan Hooper

15:00