

Session Program

4-8 Dec 2023

Ultra-high frequency gravitational waves: where to next ?

Theory

CERN, 4/3-006 - TH Conference Room

Tuesday 5 December

10:00
10:30
14:30
15:15

Theory
Session | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Dr Sunghoon Jung

10:00–10:25 **Superradiance**

Speaker
Jacob Sprague

Theory
Session | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Pedro Schwaller

14:30–14:42 **High-Frequency Gravitational Waves in Electromagnetic Waveguides**

Speaker
Francesco Sorge

14:45–14:57 **Detecting single gravitons with quantum sensing**

Speaker
Germain Tobar

15:00–15:12 **Graviton detection and the quantization of gravity**

Speaker
Nicholas Llewellyn Rodd

Wednesday 6 December

14:00
15:00

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

14:00–15:00

Primordial black holes: a dark matter candidate in the ultra-high frequency gravitational wave window

Speaker

Gabriele Franciolini

Thursday 7 December

09:30

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

09:30–09:55 **Magnetosphere conversion**

Speaker

Tao Liu

10:00

11:30

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Anish Ghoshal

11:30–11:42 **Ultra-high frequency gravitational waves from inflaton decay**

Speaker

Anna Tokareva

11:45–11:57

High Temperature Effects in the Cosmic Gravitational Microwave Background

Speaker

Jan Schuette Engel

12:00–12:12

Towards coordinate independent estimates for electro-magnetic GW detectors

Speaker

Wolfram Ratzinger

12:15

14:30

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

14:30–14:42 **Overview of magnon-based concepts**

Speaker

Asuka Ito

14:45–14:57 **A new gravitational wave plotter**

Speaker

Carlos Tamarit

15:00

Friday 8 December

09:30

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Geraldine Servant

09:30–09:42

Gravitational waves from high-power twisted light

Speaker

Killian MARTINEAU

09:45–09:57

Bremsstrahlung High-frequency Gravitational Wave Signatures of High-scale Non-thermal Leptogenesis

Speaker

Anish Ghoshal

10:00–10:12

Detection of ultra high frequency gravitational waves from compact binary coalescences with resonant cavities

Speaker

Prof. Juan Garcia-Bellido

10:15

11:30

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Giancarlo Cella

11:30–11:55

Mega- Hertz Gravitational Waves from Neutron Star Mergers

Speaker

Mikel Sanchez-Garitaonandia

12:00