

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

<p>Theory Session Location: CERN, 4/3-006 - TH Conference Room Convener: Dr Sunghoon Jung</p>	
10:00–10:25	<p>Superradiance</p> <p>Speaker Jacob Sprague</p>
<p>Theory Session Location: CERN, 4/3-006 - TH Conference Room Convener: Pedro Schwaller</p>	
14:30–14:42	<p>High-Frequency Gravitational Waves in Electromagnetic Waveguides</p> <p>Speaker Francesco Sorge</p>
14:45–14:57	<p>Detecting single gravitons with quantum sensing</p> <p>Speaker Germain Tobar</p>
15:00–15:12	<p>Graviton detection and the quantization of gravity</p> <p>Speaker Nicholas Llewellyn Rodd</p>

Wednesday 6 December

14:00

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

15:00

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