

## **Session Program**

**August 23, 2021 to October 7, 2021**



## **10th International Conference on New Frontiers in Physics (ICNFP 2021)**

***D Cosmology, Astrophysics, Gravity,  
Mathematical Physics***

Venue: OAC conference center, Kolymbari, Crete, Greece. Participation is possible also via internet.

## Wed, August 25

8:30 AM

### D Cosmology, Astrophysics, Gravity, Mathematical Physics

Session | Location: Room 1 | Convener: Egor Podlesnyi

08:30 - 09:00

#### Cosmology and multi-messenger astrophysics with Gamma-Ray Bursts

**Speaker**

Dr Lorenzo Amati

09:00 - 09:30

#### Results from LIGO Virgo KAGRA Collaboration for last observing run

**Speaker**

Dr Claudia Lazzaro

9:30 AM

11:00 AM

### D Cosmology, Astrophysics, Gravity, Mathematical Physics

Session | Location: Room 4 | Convener: Claudia Lazzaro

11:00 - 11:30

#### Silicon Drift Detectors for high precision exotic atoms X-ray spectroscopy

**Speaker**

Dr Francesco Sgaramella

11:30 - 12:00

#### Probing very weakly coupled Dark Matter with gravitational waves

**Speaker**

Sabir Ramazanov

12:00 - 12:30

#### Axion Dark Matter Search Results of CAST-CAPP

**Speaker**

Kaan Ozbozduman

12:30 - 13:00

#### Antimatter Cosmic Rays and Dark Matter

**Speaker**

Ilias Cholis

13:00 - 13:30

#### Effect of anisotropic photon polarisation tensor on longitudinal electrical conductivity in neutron star crust

**Speaker**

Aritra Das

1:30 PM

5:00 PM

### D Cosmology, Astrophysics, Gravity, Mathematical Physics

Session | Location: Room 1 | Convener: Mark Dayvon Goodsell

17:00 - 17:30

#### Latest results from the DAMPE space mission

**Speaker**

Andrea Parenti

17:30 - 18:00

#### Overview of the HERD space mission

	<p><b>Speaker</b> Dimitrios Kyratzis</p>
	<p><b>18:00 - 18:30</b>   <b>Magnetic Fields in early Universe</b></p> <p><b>Speaker</b> Prof. Stanislav Vilchinskii</p>
	<p><b>18:30 - 19:00</b></p> <p><b>Double Monodromy Inflation: A Gravity Waves Factory for CMB-S4, LiteBIRD and LISA</b></p> <p><b>Speaker</b> Guido D'Amico</p>
7:00 PM	
5:00 PM	<p><b>D Cosmology, Astrophysics, Gravity, Mathematical Physics</b> Session   Location: Room 4   Convener: Sabir Ramazanov</p>
	<p><b>17:30 - 18:00</b>   <b>Merger rates of black hole binaries in globular clusters</b></p> <p><b>Speaker</b> Konstantinos Kritos</p>
	<p><b>18:00 - 18:30</b>   <b>Directional Dark Matter Search with NEWSdm</b></p> <p><b>Speaker</b> Antonia Di Crescenzo</p>
7:00 PM	

## Thu, August 26

8:30 AM

### D Cosmology, Astrophysics, Gravity, Mathematical Physics

Session | Location: Room 1

08:30 - 09:00

#### Status, Upgrades and Prospects for the advanced LIGO gravitational wave detectors

**Speaker**

Lee McCuller

09:00 - 09:30

#### Cosmology and cosmic rays propagation in the relativity with a preferred frame

**Speaker**

Georgy Burde

09:30 - 10:00

#### Testing General Relativity with Gravitational Wave Observations

**Speaker**

Geraint Pratten

10:00 - 10:30

#### Gravitational Wave signature of models with low energy supersymmetry breaking

**Speaker**

Dmitry Gorbunov

10:30 AM

5:00 PM

### D Cosmology, Astrophysics, Gravity, Mathematical Physics

Session | Location: Room 4

17:00 - 17:30

#### Stable vortices in Bose-Einstein condensate dark matter

**Speaker**

Dr Alexander Yakimenko

17:30 - 18:00

#### Constraints on dark matter from high-redshift observations

**Speaker**

Anton Rudakovskiy

18:00 - 18:30

#### Search for Galactic transient sources of ultra high energy cosmic rays

**Speaker**

Vadym Voitsekhovskiy

18:30 - 19:00

#### Gamma-ray emission of flat-spectrum radio quasars in low states: the case of PKS 1510-089

**Speaker**

Mr Egor Podlesnyi

7:00 PM