

## **16 December**

<b>Time (EET)</b>	<b>Speaker</b>	<b>Title</b>
11:00	Vasilis Oikonomou	Welcome Speech
11.15	Nikolaos Stergioulas	Probing Extreme Matter with Gravitational Wave Astronomy
11:45	Vasilis Oikonomou	Primordial gravitational waves: $f(R)$ and modified gravity perspective
12:15	Heisenberg Lavinia	TBA
<b>Coffee Break</b>		
13:15	Misao Sasaki	Primordial Black Hole Cosmology
13:45	Shin'ichi Nojiri	Compact Star in General $F(R)$ Gravity and Non-Integer Power Correction
14:15	Yi-Fu Cai	Early universe with parametric resonances and cosmological applications
<b>Lunch Break</b>		
16:15	Liddle Andrew	On dataset tensions and signatures of new cosmological physics
16:45	Kanti Panagiota	Compact Objects in Einstein-scalar-Gauss-Bonnet and Horndeski Theories
17:15	Kunz Jutta	Einstein-scalar-Gauss-Bonnet black holes: stability and rotation
<b>Coffee Break</b>		
18:15	Berti Emanuele	The present and future of gravitational waves: astronomy and tests of general relativity
18:45	Brandenberger Robert	Progress in Superstring Cosmology
19:15	Faraoni Valerio	Recent developments in the thermodynamics of scalar-tensor gravity
19:45	Mairi Sakellariadou	Constraints on Cosmological and Particle Physics Models from Gravitational Waves Observations

**17 December**

<b>Time (EET)</b>	<b>Speaker</b>	<b>Title</b>
11:15	Andreas Bauswein	Neutron star mergers as probes for fundamental physics
11:45	Kokkotas Kostas	The physics before and after neutron star mergers
12:15	Elizalde Emilio	Short Story of Modern Cosmology
<b>CoffeeBreak</b>		
13:15	Leandros Perivolaropoulos	Hubble tension or a late fundamental physics transition?
13:45	Sushkov Sergey	Anisotropic cosmological models in Horndeski gravity
14:15	Blazquez-Salcedo Jose	TBA
14:45	Dimopoulos Kostas	Modelling Quintessential Inflation in Palatini Modified Gravity
<b>Lunch Break</b>		
16:45	Emmanuel Saridakis	Soft Dark Energy and Soft Dark Matter
17:15	Sáez-Chillón Gómez Diego	TBA
17:45	Diego Rubiera-Garcia	Light rings and shadows in spherically symmetric geometries beyond Schwarzschild
<b>CoffeeBreak</b>		
18:45	Raissa Mendes	Neutron stars and screening mechanisms
19:15	Sergey Vernov	Construction of inflationary scenarios with a quartic potential in the framework of Einstein-Gauss-Bonnet gravity
19:35	Ekaterina Pozdeeva	Generalization of Einstein-Gauss-Bonnet cosmological attractor to the model with non-minimally coupling to the Ricci scalar

**18 December**

<b>Time (EET)</b>	<b>Speaker</b>	<b>Title</b>
11:15	Odintsov Sergei	Unification of inflation with dark energy in axion $F(R)$ gravity
11:45	Charalampos Moustakidis	The key role of nuclear equation of state on neutron star structure and the role of gravitational waves
12:15	Tsagas Christos	Tilted Cosmology
<b><i>Coffee Break</i></b>		
13:15	Plionis Manolis	Using alternative cosmic tracers to trace the Hubble expansion
13:45	Capozziello Salvatore	Non-local Gravity Cosmology
14:15	Amjad Ashoorioon	Distinguishing a Slowly Accelerating Black Hole by Differential Time Delays of Images
14:30	Gamal Nashed	Rotating AdS/dS black holes in $f(R)$ gravity
<b><i>LunchBreak</i></b>		
16:45	Sebastian Bahamonde	Black holes solutions in metric-affine gravity with dynamical torsion and nonmetricity
17:00	Nurgissa Myrzakulov	TBA
<b><i>CoffeeBreak</i></b>		
17:50	Alexander Timoshkin	The effect of thermal radiation on the singular behavior of the Universe
18:10	Michael Zantedeschi	Primordial Black Holes from Confinement
18:30	Ifigeneia Giannakoudi	R2 Quantum Corrected Scalar Field Inflation
18:55	Theodore Papanikolaou	Scalar Induced Gravitational Waves from PBH Poisson Fluctuations

**19 December**

<b>Time (EET)</b>	<b>Speaker</b>	<b>Title</b>
11:15	Kota Numajiri	Tidal Deformation in F(R) Gravity
11:35	Taishi Katsuragawa	Testing Modified Gravity in Stimulated Photon-Photon Scattering
12:00	Tomohiro Inagaki	Cartan formalism for modified theories of gravity
12:30	Archit Vidyarthi	Covariant Effective Action and Heat Kernel Technique
12:50	Damianos Iosifidis	"Cosmological Hyperfluids, Torsion and Non-metricity"
<b>CoffeeBreak</b>		
13:30	Mohammad Darehmoradi	Viscous Cosmology with Curvature
13:50	Aakash Narayan	Neutrino oscillation in stellar interior
14:10	Payel Sarkar	Emergent Cosmology in the Models on Nonlinear Electrodynamics
<b>LunchBreak</b>		
16:10	Tanmoy Paul	Inflationary magnetogenesis with reheating phase from higher curvature coupling.
16:30	Işıl Başaran Öz	Cylindrically symmetric and plane symmetric solutions in $f(R)$ theory via Noether symmetries
<b>CoffeeBreak</b>		
17.40	Fotios Anagnostopoulos	$f(Q)$ cosmology
18:00	Daniele Gregoris	Thermodynamics of shearing massless scalar field spacetimes is inconsistent with the Weyl curvature hypothesis
18:20	Michael Prikhodovsky	A possible explanation of intergalactic anomalies using Coriolis forces in the Universe as a rotating hypersphere in 4-dimensional space
18:40	Virtual Round Table Discussion and Closure	