



# HEP2023 - 40th Conference on Recent Developments in High Energy Physics and Cosmology, Ioannina, Greece

## Wednesday 5 April 2023

### Plenary - Main Auditorium (09:30 - 11:00)

-Conveners: Costas Fountas

time	[id] title	presenter
09:30	[51] CMS results	STROLOGAS, John
10:00	[50] Effective Field Theory as a Probe of New Physics at the LHC	VRONIDOU, Eleni
10:30	[74] ATLAS highlights	ANGELIDAKIS, Stylianos

### Plenary - Main Auditorium (11:30 - 13:30)

-Conveners: George Leontaris

time	[id] title	presenter
11:30	[4] Living on a Supermanifold	Prof. PILAFTSIS, Apostolos
12:00	[44] Topological Defects & Gravitational Waves	SHAFI, Qaisar
12:30	[37] Primordial Black Holes from an Early Matter Phase	KOUVARIS, Chris
13:00	[17] Dedicated experiments for feebly interacting particles	Dr MITSOU, Vasiliki

### Plenary - Main Auditorium (15:00 - 16:30)

-Conveners: Kyriakos Tamvakis

time	[id] title	presenter
15:00	[34] Observable primordial gravitational waves from cosmic inflation	DIMOPOULOS, KONSTANTINOS
15:30	[49] Searching for dark matter axions via atomic excitations	VERGADOS, Ioannis
16:00	[58] Detecting Stochastic Gravitational Wave Backgrounds with future space-based observatories	KARNESIS, Nikolaos

# Thursday 6 April 2023

## Plenary - Main Auditorium (09:00 - 10:30)

-Conveners: Apostolos Pilaftsis

time	[id] title	presenter
09:00	[5] Inflation in Metric-Affine Quadratic Gravity	TAMVAKIS, Kyriakos
09:30	[67] Geometric origin of the dark sector and matter antimatter asymmetry of the Universe	MAVROMATOS, Nikos
10:00	[38] Quantum Instabilities of de Sitter and Minkowski space-times	KYRITSIS, Ilias

## Plenary - Main Auditorium (11:00 - 12:30)

-Conveners: Tiziano Camporesi

time	[id] title	presenter
11:00	[52] CMS upgrades	VIRDEE, Jim
11:30	[61] ASIC development for HEP - past and future	HALL, Geoff
12:00	[54] New Small Wheel System Upgrade of the ATLAS experiment	ALEXOPOULOS, Theodoros

## Plenary - Main Auditorium (14:30 - 16:30)

-Conveners: Vassilis Spanos

time	[id] title	presenter
14:30	[6] A Field Theory Approach to Dark Energy and its observational consequences.	Prof. SINGH, Anupam
15:00	[43] Classical and quantum aspects of a constrained FT	SFETSOS, Konstantinos
15:30	[40] Remarks on thermal CFTs and massless Feynman graphs	PETKOU, Anastasios
16:00	[76] Gauge field theory vacuum and cosmological inflation without scalar field	SAVVIDY, Georgios

**Friday 7 April 2023****Plenary - Main Auditorium (09:00 - 10:30)****-Conveners: Nikos Mavromatos**

time	[id] title	presenter
09:00	[41] Tensions in Cosmology: Are we Approaching New Physics?	SARIDAKIS, Emmanuel
09:30	[21] The SND@LHC experiment	CAMPORESI, Tiziano
10:00	[30] Challenges of Future Linear Colliders (CLIC/ILC)	TITOV, Maksym

**Plenary - Main Auditorium (11:00 - 13:10)****-Conveners: Theodoros Alexopoulos**

time	[id] title	presenter
11:00	[45] Cosmological models with freeze-in baryogenesis	Prof. SPANOS, Vassilis
11:30	[24] Silicon detectors: From the early days to the ATLAS and CMS upgrades in the HL-LHC era	KOPSALIS, Ioannis
12:00	[47] Entanglement and expansion	TETRADIS, Nikolaos
12:30	[33] CAST and after-CAST	ZIOUTAS, Konstantin
13:00	[91] ANNOUNCEMENTS	DEDES, Athanasios

**Plenary - Main Auditorium (15:00 - 16:30)****-Conveners: Ilias Kyritsis**

time	[id] title	presenter
15:00	[22] Physics potential of future experiments at the FCC	GOUSKOS, Loukas
15:30	[3] Higher-order corrections at the LHC: current status and prospects	PAPADOPOULOS, Konstantinos
16:00	[63] Recent results of searches for Supersymmetry with the full CMS Run II data set	VELLIDIS, Konstantinos