#### **Session Program**

#### 27 June 2022 to 2 July 2022



## The XXIX International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2022)

# Plenary

University of Ioannina (GR), Conference Centre "Karolos Papoulias"

### Monday 27 June

09:00	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Jonathan R. Ellis
	09:00-09:30 <b>Opening</b>
	09:30-10:00 Highlights of searches for long-lived particles at the LHC Speaker Jeff Dandoy
10:30	10:00-10:30 New experimental results on BSM searches from ATLAS and CMS Speaker Konstantinos Theofilatos
11:00	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Steven Adam Abel
	11:00-11:30 The Dark Dimension and the Swampland   Speaker Cumrun Vafa
	11:30-12:00 From UV to IR and back   Speaker Claudia de Rham
	12:00-12:30 Higgs Vacuum Decay and Primordial Black Holes Speaker Ruth Gregory
13:00	12:30-13:00 Tachyons and Misaligned Supersymmetry Speaker Carlo Angelantonj
14:30	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Manuel Drees
	14:30-15:00 Topological Defects, Inflation & Gravity Waves   Speaker Qaisar Shafi
15:30	15:00-15:30 Dark Matter candidate particles in Supergravity based models Speaker Vassilis Spanos

### Tuesday 28 June

Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Cumrun Vafa
09:00-09:30 A unified model for solving big problems of the Standard Model Speaker Nobuchika Okada
09:30-10:00 Challenges of an accelerating universe in string theory Speaker Ignatios Antoniadis
10:00-10:30 The Gravitino and the Swampland Speaker Dieter Lust
Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: John Rizos
11:00-11:30 Massive gravity and string theory   Speaker Constantin Bachas
Supersymmetry and the muon g-2 anomaly   Speaker   Takeo Moroi
12:00-12:30 A challenge for the cosmological standard model Speaker Prof. Subir Sarkar
12:30-13:00 Light from the dark sector: gravity, axions graviphotons and neutrinos Speaker Ilias Kyritsis
Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Carlo Angelantonj
14:30-15:00 Themes in Celestial CFT Speaker Sabrina Pasterski
15:00-15:30 Wavefunction of the universe: Diffeomorphism invariance and field redefinitions

### Wednesday 29 June

Plenary Session   Locat	ion: Conference Centre "Karolos Papoulias", Main Auditorium   <b>Convener:</b> Ignatios Antonia
09:00-09:30 Speaker Manuel Drees	Nonthermal Dark Matter Production
09:30-10:00 Higher-spin s Speaker Karim Benakli	states of the superstring in an electromagnetic background
10:00-10:30 Speaker Hans Peter Nilles	Modular flavor and CP symmetry from a top-down perspective
Plenary Session   Locat	<b>ion:</b> Conference Centre "Karolos Papoulias", Main Auditorium   <b>Convener:</b> Constantin Bach
11:00-11:30 The anapole Speaker Howard Haber	moment of a charged lepton in softly-broken Supersymmetric QED
11:30-12:00 String-inspir anomalies Speaker Nikos Mavromato	ed Running Vacuum Inflationary Cosmologies with gravitational
12:00-12:30 Speaker Marcela Silvia Ca	New opportunities for Electroweak Baryogenesis
12:30-13:00 Speaker Marios Petropoul	Flat asymptotics, charges and dual charges - What the Cotton can
Plenary Session   Locat	ion: Conference Centre "Karolos Papoulias", Main Auditorium   <b>Convener:</b> Nikos Mavromato
14:30-15:00 <b>Speaker</b> Mirjam Cvetic	Gauge group topology and higher-form structures in quantum gra
15:00-15:30	Causality, nonlinear supersymmetry and inflation

### Thursday 30 June

Plenary Session   Loca	ation: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Hans Peter Nille
09:00-09:30 <b>Speaker</b> Jonathan R. Elli	
09:30-10:00 <b>Speaker</b> Michalis Agath	
10:00-10:30 <b>Speaker</b> Sven Heinemer	
Diaman	
Plenary Session   Loca	ation: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Fernando Queve
Session   Loca 11:00-11:30	and Phenomenology of the Superstring derived No-Scale Flipped S
Session   Loca 11:00-11:30 Cosmology Speaker Dimitri Nanopo 11:30-12:00	and Phenomenology of the Superstring derived No-Scale Flipped S
Session   Loca 11:00-11:30 Cosmology Speaker Dimitri Nanopo	and Phenomenology of the Superstring derived No-Scale Flipped S <sup>ulos</sup>
Session   Loca 11:00-11:30 Cosmology Speaker Dimitri Nanopo 11:30-12:00 Speaker	and Phenomenology of the Superstring derived No-Scale Flipped S ulos Leptogenesis
Session Loca 11:00-11:30 Cosmology Speaker Dimitri Nanopo 11:30-12:00 Speaker Apostolos Pilafi 12:00-12:30 Speaker	and Phenomenology of the Superstring derived No-Scale Flipped S ulos Leptogenesis
Session Loca 11:00-11:30 Cosmology Speaker Dimitri Nanopo 11:30-12:00 Speaker Apostolos Pilafi 12:00-12:30 Speaker Xiao Luo	and Phenomenology of the Superstring derived No-Scale Flipped S ulos Leptogenesis sis Recent results from the MicroBooNE experiment

#### Friday 1 July

00	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Prof. Benjamin Allanach
	09:00-09:30 Anomalies in Particle Physics Speaker Andreas Crivellin
	09:30-10:00 Superspace approach to the M5 brane Speaker Laura Andrianopoli
30	10:00-10:30 Non-linear SUSY, Vacuum Energy and Inflation Speaker Fernando Quevedo
00	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Prof. Apostolos Pilafts
	11:00-11:30Gravitational Portals and Particle Production during Reheating.SpeakerKeith Olive
	11:30-12:00 Heavy KK Modes Hunting from Gravitational Waves Speaker Mariano Quiros Carcelen
	12:00-12:30 Third Family Hypercharge Speaker Benjamin Allanach
0	12:30-13:00 The unreasonable effectiveness of Genetic Algorithms as a search tool in the string landscape Speaker Steven Adam Abel
0	Plenary Session   Location: Conference Centre "Karolos Papoulias", Main Auditorium   Convener: Mariano Quiros Carcelen
	14:30-15:00 Minimal SUSY Models confront Experiment   Speaker Carlos E.M. Wagner
	15:00-15:30 Neutrino and Flavour Models, from the Planck Scale to the Electroweak Scale

#### Saturday 2 July

