

Session Program

10-14 Jun 2024

ATHEXIS - Athens Symposium on Exploring the Universe

Plenary talks

Athens, Greece

National Hellenic Research Foundation (NHRF) 48 Vassileos Constantinou Ave. 11635 Athens, Greece
<http://www.eie.gr/index-en.html>

Monday 10 June

10:00

Plenary talks

Session |

Location: Athens, Greece, National Hellenic Research Foundation (NHRF) 48 Vassileos Constantinou Ave. 11635 Athens, Greece <http://www.eie.gr/index-en.html>

10:00–10:30 **Pulsar Polarization Array**

Speaker

Tao Liu

10:30–11:00 **Diffuse Axion Background**

Speaker

Joshua Eby

11:00–11:30 **Hunting for dark matter with its high-energy fluxes**

Speaker

Filippo Sala

11:30

11:30

Plenary talks

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11:30–12:00 **The cosmological axion domain wall problem**

Speaker

Subir Sarkar

12:00–12:30 **Coherent and incoherent dynamics of Fuzzy Dark Matter .**

Speaker

Gerasimos Rigopoulos

12:30–13:00 **Pre-merger & post-merger phenomena in compact binary mergers**

Speaker

Kostas Kokkotas

13:00

15:00

Plenary talks

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15:00–15:30 **Tensions and anomalies in cosmology**

Speaker

Javier de Cruz Pérez

15:30–16:00 **Finite volume effects in QFT and cosmic bounce**

Speaker

Jean Alexandre

16:00–16:30 **Investigating Dark Matter: Insights from Stars**

Speaker

Ilidio Lopes

16:30

Tuesday 11 June

09:30

Plenary talks

Session |

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09:30–10:00 **Non-adiabatic inflation**

Speaker

David Wands

10:00–10:30

The impact of modifications to gravity on inhomogeneous cosmologies

Speaker

Katy Clough

10:30–11:00 **Non-perturbative physics of inflation**

Speaker

Sébastien Renaux-Petel

11:00

11:30

Plenary talks

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11:30–12:00 **LIGO - Virgo - KAGRA stochastic searches and results.**

Speaker

Jishnu Suresh

12:00–12:30

Mechanisms for primordial black hole formation from single field inflation

Speaker

Guillermo Ballesteros

12:30–13:00

Non-Gaussianity of the curvature perturbation and its impact on the primordial black hole formation

Speaker

Shi Pi

13:00

15:00

Plenary talks

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15:00–15:30 **Entanglement in an expanding universe**

Speaker

Nikolaos Tetradis

15:30–16:00 **Like a bridge over troubled water: NEDE and the Hubble tension**

Speaker

Martin Snoager Sloth

16:00-16:30

On how BAO shape the late-time solutions to the H_0 tension, and the $w\Lambda$ CDM

Speaker

Adrià Gómez-Valent

16:30

17:00

Plenary talks

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17:00-17:30

Gravitational particle production and freeze-in at stronger coupling

Speaker

Oleg Lebedev

17:30-18:00

Minimal & Nonminimal Dark Matter

Speaker

Anna Socha

18:00

Wednesday 12 June

09:30

Plenary talks

Session |

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09:30–10:00

Explaining nonlinearities in black hole ringdowns from symmetries

Speaker

Antonio Walter Riotto

10:00–10:30

A stretched horizon effective field theory understanding of black hole echoes

Speaker

Subodh Patil

10:30–11:00

What's inside a black hole ?

Speaker

Ramy Brustein

11:00

11:20

Plenary talks

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11:30–12:00

Dynamical friction, dark matter and gravitational wave signals

Speaker

Vincent Desjacques

12:00–12:30

The Black Hole Formation -- Null Geodesic Correspondence

Speaker

Davide Perrone

13:00

Thursday 13 June

09:30

Plenary talks

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09:30–10:00

Connecting the baryons to the dark matter of the Universe

Speaker

Alejandro Ibarra

10:00–10:30

Status of the LUXZEPLIN dark matter experiment

Speaker

Aiham Al Musalhi

10:30–11:00

Searching for Dark Matter in Gamma Rays

Speaker

Ilias Cholis

11:00

11:30

Plenary talks

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11:30–12:00

Exploring the early universe via high energy nuclear collisions on the Earth

Speaker

Jamal Jalilian-Marian

12:00–12:30

Minimal sterile neutrino dark matter

Speaker

Torsten Bringmann

12:30–13:00

Cosmology with broken diffeomorphisms

Speaker

ANTONIO LOPEZ MAROTO

13:00

15:00

Plenary talks

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15:00–15:30

Constraining primordial black holes of asteroid masses by observation of stars in dwarf galaxies

Speaker

Peter Tinyakov

15:30–16:00

On the early dressing of primordial black holes by particle dark matter in the radiation era

	<p>Speaker Julien Lavallo</p>
	<p>16:00–16:30</p> <p>Unitarity in the non-relativistic regime and implications for dark matter</p> <p>Speaker Marcos Flores</p>
16:30	
17:00	<p>Plenary talks</p> <p>Session Location: Athens, Greece, National Hellenic Research Foundation (NHRF) 48 Vassileos Constantinou Ave. 11635 Athens, Greece http://www.eie.gr/index-en.html</p>
	<p>17:00–17:30 Condensed dark matter with a Yukawa interaction</p> <p>Speaker Jerome Vandecasteele</p>
	<p>17:30–18:00 Excited bound states and their role in dark matter production</p> <p>Speaker Stefan Lederer</p>
18:30	

Friday 14 June

09:30

Plenary talks

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09:30–10:00

Applications of the Tunneling Potential Formalism

Speaker

Jose Ramon Espinosa Sedano

10:00–10:30

A parity-violating Universe? Cosmic Birefringence (and more).

Speaker

Nicola Bartolo

10:30–11:00

On the Effective Field Theory of Large Scale Structure

Speaker

Leonardo Senatore

11:00

11:30

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11:30–12:00

Peering Beyond the Standard Model at the LHC: The Odyssey For Anomalously Ionizing Messengers of New Physics with MoEDAL-MAPP

Speaker

Michael Anthony Staelens

12:00–12:30

Search for cosmological phase transitions through their gravitational wave signals

Speaker

Marek Lewicki

12:30–13:00

Fundamental fields, scalar charges and Extreme Mass Ratio Inspirals

Speaker

Andrea Maselli

13:30

15:00

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15:00–15:30

Gravitational Wave Discoveries Enabled by Machine Learning

Speaker

Nikolaos Stergioulas

15:30–16:00

Probing massive black holes with gravitational waves

Speaker

Konstantinos Kritos

16:00-16:30

Realising dark matter via dark branes

Speaker

Fotios Koutroulis

16:30