

ATHEXIS - Athens
Symposium on Exploring the
Universe

Report of Contributions

Contribution ID: 33

Type: **not specified**

The cosmological axion domain wall problem

Monday 10 June 2024 09:30 (30 minutes)

Presenter: SARKAR, Subir (University of Oxford)

Session Classification: Plenary talks

Contribution ID: 34

Type: **not specified**

Coherent and incoherent dynamics of Fuzzy Dark Matter .

Monday 10 June 2024 10:00 (30 minutes)

Presenter: RIGOPOULOS, Gerasimos (Newcastle University)

Session Classification: Plenary talks

Contribution ID: 35

Type: **not specified**

Pre-merger & post-merger phenomena in compact binary mergers

Monday 10 June 2024 10:30 (30 minutes)

Presenter: KOKKOTAS, Kostas

Session Classification: Plenary talks

Contribution ID: 36

Type: **not specified**

Pulsar Polarization Array

Monday 10 June 2024 11:30 (30 minutes)

Presenter: LIU, Tao (The Hong Kong University of Science and Technology (HK))

Session Classification: Plenary talks

Contribution ID: 37

Type: **not specified**

Diffuse Axion Background

Monday 10 June 2024 12:00 (30 minutes)

Presenter: EBY, Joshua

Session Classification: Plenary talks

Contribution ID: **38**

Type: **not specified**

Hunting for dark matter with its high-energy fluxes

Monday 10 June 2024 12:30 (30 minutes)

Presenter: SALA, Filippo

Session Classification: Plenary talks

Contribution ID: 39

Type: **not specified**

Tensions and anomalies in cosmology

Monday 10 June 2024 15:00 (30 minutes)

Presenter: DE CRUZ PÉREZ, Javier (Universidad Complutense de Madrid)

Session Classification: Plenary talks

Contribution ID: 40

Type: **not specified**

Finite volume effects in QFT and cosmic bounce

Monday 10 June 2024 15:30 (30 minutes)

Presenter: ALEXANDRE, Jean

Session Classification: Plenary talks

Contribution ID: 41

Type: **not specified**

Investigating Dark Matter: Insights from Stars

Monday 10 June 2024 16:00 (30 minutes)

Presenter: LOPES, Ildio

Session Classification: Plenary talks

Contribution ID: 42

Type: **not specified**

Relic Background boosted in cosmic reservoirs

Monday 10 June 2024 17:00 (15 minutes)

Presenter: DE MARCHI, Andrea Giovanni

Session Classification: Short talks

Contribution ID: 43

Type: **not specified**

Cosmology from SKA observatory precursors

Monday 10 June 2024 17:15 (15 minutes)

Presenter: ASOREY BARREIRO, Jacobo (Universidad Complutense de Madrid and IPARCOS)

Session Classification: Short talks

Contribution ID: 44

Type: **not specified**

Explaining the broken power-law in JWST counts

Monday 10 June 2024 17:30 (15 minutes)

Presenter: Dr MANZONI, Giorgio

Session Classification: Short talks

Contribution ID: 45

Type: **not specified**

Non-adiabatic inflation

Tuesday 11 June 2024 09:30 (30 minutes)

Presenter: WANDS, David

Session Classification: Plenary talks

Contribution ID: 46

Type: **not specified**

The impact of modifications to gravity on inhomogeneous cosmologies

Tuesday 11 June 2024 10:00 (30 minutes)

Presenter: CLOUGH, Katy

Session Classification: Plenary talks

Contribution ID: 47

Type: **not specified**

Non-perturbative physics of inflation

Tuesday 11 June 2024 10:30 (30 minutes)

Presenter: RENAUX-PETEL, Sébastien

Session Classification: Plenary talks

Contribution ID: 48

Type: **not specified**

LIGO - Virgo - KAGRA stochastic searches and results.

Tuesday 11 June 2024 11:30 (30 minutes)

Presenter: SURESH, Jishnu (Université catholique de Louvain)

Session Classification: Plenary talks

Contribution ID: 49

Type: **not specified**

Mechanisms for primordial black hole formation from single field inflation

Tuesday 11 June 2024 12:00 (30 minutes)

Presenter: BALLESTEROS, Guillermo (IFT UAM-CSIC)

Session Classification: Plenary talks

Contribution ID: 50

Type: **not specified**

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

Tuesday 11 June 2024 12:30 (30 minutes)

Presenter: PI, Shi (Institute of Theoretical Physics, Chinese Academy of Sciences)

Session Classification: Plenary talks

Contribution ID: 51

Type: **not specified**

Entanglement in an expanding universe

Tuesday 11 June 2024 15:00 (30 minutes)

Presenter: TETRADIS, Nikolaos (National and Kapodistrian University of Athens (GR))

Session Classification: Plenary talks

Contribution ID: 52

Type: **not specified**

Like a bridge over troubled water: NEDE and the Hubble tension

Tuesday 11 June 2024 15:30 (30 minutes)

Presenter: SLOTH, Martin Snoager

Session Classification: Plenary talks

Contribution ID: 53

Type: **not specified**

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

Tuesday 11 June 2024 16:00 (30 minutes)

Presenter: GÓMEZ-VALENT, Adrià

Session Classification: Plenary talks

Contribution ID: 54

Type: **not specified**

Gravitational particle production and freeze-in at stronger coupling

Tuesday 11 June 2024 17:00 (30 minutes)

Presenter: LEBEDEV, Oleg

Session Classification: Plenary talks

Contribution ID: 55

Type: **not specified**

Minimal & Nonminimal Dark Matter

Tuesday 11 June 2024 17:30 (30 minutes)

Presenter: SOCHA, Anna (LPENS)

Session Classification: Plenary talks

Contribution ID: 56

Type: **not specified**

Cosmological correlators with double massive exchanges

Tuesday 11 June 2024 18:00 (20 minutes)

Presenter: AOKI, Shuntaro (IBS CTPU)

Session Classification: Short talks

Contribution ID: 57

Type: **not specified**

Explaining nonlinearities in black hole ringdowns from symmetries

Wednesday 12 June 2024 09:30 (30 minutes)

Presenter: RIOTTO, Antonio Walter (Universite de Geneve (CH))

Session Classification: Plenary talks

Contribution ID: 58

Type: **not specified**

A stretched horizon effective field theory understanding of black hole echoes

Wednesday 12 June 2024 10:00 (30 minutes)

Presenter: PATIL, Subodh

Session Classification: Plenary talks

Contribution ID: 59

Type: **not specified**

What's inside a black hole ?

Wednesday 12 June 2024 10:30 (30 minutes)

Presenter: BRUSTEIN, Ramy (Ben-Gurion University of the Negev (IL))

Session Classification: Plenary talks

Contribution ID: **60**

Type: **not specified**

Dynamical friction, dark matter and gravitational wave signals

Wednesday 12 June 2024 11:30 (30 minutes)

Presenter: DESJACQUES, Vincent (Technion)

Session Classification: Plenary talks

Contribution ID: **61**

Type: **not specified**

The Black Hole Formation – Null Geodesic Correspondence

Wednesday 12 June 2024 12:00 (30 minutes)

Presenter: PERRONE, Davide (Universite de Geneve (CH))

Session Classification: Plenary talks

Contribution ID: 62

Type: **not specified**

Testing dark environments with gravitational waves

Presenter: PEREZ-GARCIA, M. Angeles

Session Classification: Plenary talks

Contribution ID: 63

Type: **not specified**

Connecting the baryons to the dark matter of the Universe

Thursday 13 June 2024 09:30 (30 minutes)

Presenter: IBARRA, Alejandro (Technical University of Munich)

Session Classification: Plenary talks

Contribution ID: **64**

Type: **not specified**

Status of the LUXZEPLIN dark matter experiment

Thursday 13 June 2024 10:00 (30 minutes)

Presenter: AL MUSALHI, Aiham (UCL)

Session Classification: Plenary talks

Contribution ID: 65

Type: **not specified**

Searching for Dark Matter in Gamma Rays

Thursday 13 June 2024 10:30 (30 minutes)

Presenter: CHOLIS, Ilias (Oakland University)

Session Classification: Plenary talks

Contribution ID: 66

Type: **not specified**

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

Thursday 13 June 2024 11:30 (30 minutes)

Presenter: JALLIAN-MARIAN, Jamal (Baruch College (US))

Session Classification: Plenary talks

Contribution ID: 67

Type: **not specified**

Minimal sterile neutrino dark matter

Thursday 13 June 2024 12:00 (30 minutes)

Presenter: BRINGMANN, Torsten (University of Oslo (NO))

Session Classification: Plenary talks

Contribution ID: **68**

Type: **not specified**

Cosmology with broken diffeomorphisms

Thursday 13 June 2024 12:30 (30 minutes)

Presenter: LOPEZ MAROTO, ANTONIO

Session Classification: Plenary talks

Contribution ID: 69

Type: **not specified**

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

Thursday 13 June 2024 15:00 (30 minutes)

Presenter: TINYAKOV, Peter (Universite Libre de Bruxelles)

Session Classification: Plenary talks

Contribution ID: 70

Type: **not specified**

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

Thursday 13 June 2024 15:30 (30 minutes)

Presenter: LAVALLE, Julien (LUPM (CNRS / Univ. Montpellier))

Session Classification: Plenary talks

Contribution ID: 71

Type: **not specified**

Unitarity in the non-relativistic regime and implications for dark matter

Thursday 13 June 2024 16:00 (30 minutes)

Presenter: FLORES, Marcos (LPENS)

Session Classification: Plenary talks

Contribution ID: 72

Type: **not specified**

Condensed dark matter with a Yukawa interaction

Thursday 13 June 2024 17:00 (30 minutes)

Presenter: VANDECASTEELE, Jerome

Session Classification: Plenary talks

Contribution ID: 73

Type: **not specified**

Excited bound states and their role in dark matter production

Thursday 13 June 2024 17:30 (30 minutes)

Presenter: LEDERER, Stefan

Session Classification: Plenary talks

Contribution ID: 74

Type: **not specified**

Supersymmetric Dark Matter

Presenter: SPANOS, Vassilis (Department of Physics National and Kapodistrian University of Athens)

Session Classification: Plenary talks

Contribution ID: 75

Type: **not specified**

Applications of the Tunneling Potential Formalism

Friday 14 June 2024 09:30 (30 minutes)

Presenter: ESPINOSA SEDANO, Jose Ramon (ICREA / IFAE Barcelona (ES))

Session Classification: Plenary talks

Contribution ID: 76

Type: **not specified**

On the Effective Field Theory of Large Scale Structure

Friday 14 June 2024 10:30 (30 minutes)

Presenter: SENATORE, Leonardo

Session Classification: Plenary talks

Contribution ID: 77

Type: **not specified**

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

Friday 14 June 2024 11:30 (30 minutes)

Presenter: STAELENS, Michael Anthony (Instituto de Física Corpuscular (IFIC), Universitat de València-CSIC)

Session Classification: Plenary talks

Contribution ID: 78

Type: **not specified**

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

Friday 14 June 2024 10:00 (30 minutes)

Presenter: BARTOLO, Nicola

Session Classification: Plenary talks

Contribution ID: 79

Type: **not specified**

Search for cosmological phase transitions through their gravitational wave signals

Friday 14 June 2024 12:00 (30 minutes)

Presenter: LEWICKI, Marek (University of Warsaw)

Session Classification: Plenary talks

Contribution ID: **80**

Type: **not specified**

Fundamental fields, scalar charges and Extreme Mass Ratio Inspirals

Friday 14 June 2024 12:30 (30 minutes)

Presenter: MASELLI, Andrea

Session Classification: Plenary talks

Contribution ID: **81**

Type: **not specified**

Gravitational Wave Discoveries Enabled by Machine Learning

Friday 14 June 2024 15:00 (30 minutes)

Presenter: STERGIOULAS, Nikolaos (Aristotle University of Thessaloniki)

Session Classification: Plenary talks

Contribution ID: 82

Type: **not specified**

Probing massive black holes with gravitational waves

Friday 14 June 2024 15:30 (30 minutes)

Presenter: KRITOS, Konstantinos

Session Classification: Plenary talks

Contribution ID: 83

Type: **not specified**

Realising dark matter via dark branes

Friday 14 June 2024 16:00 (30 minutes)

Presenter: KOUTROULIS, Fotios (Warsaw University)

Session Classification: Plenary talks

Contribution ID: 84

Type: **not specified**

Radiation backreaction during dark-matter freeze-out via metastable bound states

Friday 14 June 2024 17:00 (20 minutes)

Presenter: VASILAKI, Christiana

Session Classification: Short talks

Contribution ID: 85

Type: **not specified**

Imprints of energy injection by compact dark stars during reionization

Friday 14 June 2024 17:20 (20 minutes)

Presenter: BETANCOURT KAMENETSKAIA, Boris (Technical University of Munich)

Session Classification: Short talks

Contribution ID: 86

Type: **not specified**

Gravitational Wave Detection in O3 LIGO-Virgo data with the AresGW Deep Learning Code

Friday 14 June 2024 17:40 (20 minutes)

Presenter: KOLONIARI, Alexandra Eleni (Aristotle University of Thessaloniki)

Session Classification: Short talks