

Workshop on Standard Model and Beyond 2025

Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration

Sunday, 24 August 2025 16:00 (3 hours)

Contribution ID: 2

Type: **not specified**

Welcome

Monday, 25 August 2025 09:20 (10 minutes)

Presenter: ZOUPANOS, George (National Technical Univ. of Athens (GR))

Contribution ID: 3

Type: **not specified**

Departure day

Wednesday, 3 September 2025 09:00 (2 hours)

Contribution ID: 4

Type: **not specified**

Recent results with ATLAS

Monday, 25 August 2025 09:30 (1 hour)

Presenter: HERDE, Hannah Elizabeth (Lund University (SE))

Contribution ID: 5

Type: **not specified**

Physics highlights from LHCb

Wednesday, 27 August 2025 09:00 (1 hour)

Presenter: HARNEW, Neville (University of Oxford (GB))

Contribution ID: 6

Type: **not specified**

Neutrinos and the Standard Model: Past, Present and Future

Thursday, 28 August 2025 09:00 (1 hour)

Presenter: PARA, Adam

Contribution ID: 7

Type: **not specified**

Constraining inflation and DM from CMB data

Friday, 29 August 2025 13:00 (30 minutes)

Presenter: POKORSKI, Stefan (University of Warsaw (PL))

Contribution ID: **8**

Type: **not specified**

Searches for Higgs boson pair production in the ATLAS experiment

Monday, 25 August 2025 10:30 (30 minutes)

Presenter: FERRARI, Arnaud (Uppsala University (SE))

Contribution ID: 9

Type: **not specified**

Top physics in ATLAS and CMS

Monday, 25 August 2025 11:30 (30 minutes)

Presenter: BURGARD, Carsten (Technische Universitaet Dortmund (DE))

Contribution ID: **10**

Type: **not specified**

Heavy Flavour Results from ATLAS and CMS

Tuesday, 26 August 2025 11:30 (30 minutes)

Presenter: MARIANI, Valentina (Universita e INFN, Perugia (IT))

Contribution ID: 11

Type: **not specified**

TBA

Presenter: BRANCO, Gustavo (Instituto Superior Tecnico)

New physics in s to d transitions: rare kaons vs hyperons vs high pT measurements at LHC

Wednesday, 27 August 2025 10:00 (30 minutes)

Presenter: VALENCIA, German (Monash University (AU))

Contribution ID: 13

Type: **not specified**

Merging neutron stars: EM and GW signals

Sunday, 31 August 2025 11:30 (30 minutes)

Presenter: KOKKOTAS, Kostas

Contribution ID: **14**

Type: **not specified**

New Physics Searches at CMS with jets in the final state

Friday, 29 August 2025 16:00 (30 minutes)

Presenter: TZIAFERI, Eirini (National and Kapodistrian University of Athens (GR))

Contribution ID: 15

Type: **not specified**

ALICE highlights

Monday, 1 September 2025 09:30 (1 hour)

Presenter: TIMMINS, Anthony Robert (University of Houston (US))

Contribution ID: **16**

Type: **not specified**

Recent Results from the IceCube Neutrino Observatory

Thursday, 28 August 2025 10:00 (30 minutes)

Presenter: LAZAR, Jeffrey

Contribution ID: 17

Type: **not specified**

Indications for new Higgs Bosons and the Electroweak Scale

Tuesday, 26 August 2025 10:30 (30 minutes)

Presenter: CRIVELLIN, Andreas (University of Zurich (CH))

Workshop on St ... / Report of Contributions

Light to Heavy, Brief to Eternal ...

Contribution ID: **18**

Type: **not specified**

Light to Heavy, Brief to Eternal: An Axion for Every Occasion (in the Early Universe)

Sunday, 31 August 2025 16:00 (30 minutes)

Presenter: D'ERAMO, Francesco (University of Padua)

Contribution ID: 19

Type: **not specified**

Revisiting Dark Photon Decays at Colliders in a Dark Matter Background

Presenter: CHAKRABORTI, Sreemanti (IPPP Durham University)

Contribution ID: **20**

Type: **not specified**

The flipped rotating axion: Baryogenesis, Dark Matter and Primordial Magnetic Fields

Tuesday, 26 August 2025 13:00 (30 minutes)

Presenter: DIMOPOULOS, Konstantinos (LANCASTER UNIVERSITY)

Contribution ID: 21

Type: **not specified**

SO(10)-inspired leptogenesis

Tuesday, 2 September 2025 13:00 (30 minutes)

Presenter: DI BARI, Pasquale

Contribution ID: 22

Type: **not specified**

Cosmological observables in conformal neutrino mass models

Presenter: MORAIS, António (Universidade de Aveiro)

Contribution ID: 23

Type: **not specified**

Gravitationally produced sterile neutrinos as dark matter candidates

Sunday, 31 August 2025 10:00 (30 minutes)

Presenter: KOUTROULIS, Fotis (IFT, Warsaw University)

Contribution ID: 24

Type: **not specified**

Leptogenesis during a first-order cosmological phase transition

Monday, 1 September 2025 18:30 (30 minutes)

Presenter: LAVIGNAC, Stephane (IPhT Saclay)

Contribution ID: 25

Type: **not specified**

Automatizing Higgs decays in BSM models at one-loop in the decoupling renormalization scheme

Tuesday, 26 August 2025 17:00 (30 minutes)

Presenter: KOTLARSKI, Wojciech (National Centre for Nuclear Research)

Contribution ID: **26**

Type: **not specified**

Quantum entanglement in QED

Friday, 29 August 2025 11:30 (30 minutes)

Presenter: KOWALSKA, Kamila (National Centre for Nuclear Research)

Contribution ID: 27

Type: **not specified**

H -> VV : Precise predictions in the SM and sensitivity to new physics

Tuesday, 26 August 2025 18:50 (30 minutes)

Presenter: LAMBA, Priyanka

Contribution ID: **28**

Type: **not specified**

Gauge-Higgs Unification

Friday, 29 August 2025 17:00 (30 minutes)

Presenter: HOSOTANI, Yutaka

Contribution ID: 29

Type: **not specified**

SM (QCD+EW) in ATLAS and CMS

Monday, 25 August 2025 12:30 (30 minutes)

Presenter: KRIZKA, Karol (University of Birmingham (GB))

Contribution ID: 30

Type: **not specified**

Conformal and pure scale-invariant gravities in d-dimensions

Friday, 29 August 2025 16:30 (30 minutes)

Presenter: HELL, Anamaria

Contribution ID: 31

Type: **not specified**

TBA

Presenter: APOSTOLOPOULOS, Pantelis

Contribution ID: 32

Type: **not specified**

What happens when supercooling is terminated by curvature flipping?

Presenter: DUTKA, Tomasz (Korea Institute for Advanced Study)

Contribution ID: 33

Type: **not specified**

Exotics and BSM (non SUSY, non DM) in ATLAS and CMS

Wednesday, 27 August 2025 12:00 (30 minutes)

Presenter: EL GHAZALI, Yassine (University of Science and Technology of China (CN))

Contribution ID: 34

Type: **not specified**

Stabilizing dark matter with quantum scale symmetry

Friday, 29 August 2025 10:00 (30 minutes)

Presenter: SESSOLO, Enrico Maria

Contribution ID: 35

Type: **not specified**

B -> K + invisible as a probe of light physics

Wednesday, 27 August 2025 10:30 (30 minutes)

Presenter: SCHMIDT, Michael (UNSW Sydney)

Contribution ID: **36**

Type: **not specified**

TBA

Presenter: SHAFI, Qaisar

Contribution ID: 38

Type: **not specified**

Neutrinos and electrons in external fields and matter

Monday, 1 September 2025 16:30 (30 minutes)

Presenter: STUDENIKIN, Alexander (M.V. Lomonosov Moscow State University (Moscow, Russia))

Contribution ID: 39

Type: **not specified**

Paleo-detectors: A New Endeavor for Dark Matter Detection

Tuesday, 26 August 2025 18:10 (20 minutes)

Presenter: THEODOSOPOULOS, Dionysios

Contribution ID: **40**

Type: **not specified**

LHC Phenomenology of electroweak spin-1 resonances

Monday, 1 September 2025 11:30 (30 minutes)

Presenter: POROD, Werner Rudolf (Julius Maximilians Universitaet Wuerzburg (DE))

Contribution ID: 41

Type: **not specified**

PBHs and GWs from a warped dimension

Wednesday, 27 August 2025 12:30 (30 minutes)

Presenter: QUIROS CARCELEN, Mariano (The Barcelona Institute of Science and Technology (BIST) (ES))

Contribution ID: 42

Type: **not specified**

Composite dynamical dark energy and the cosmological tensions

Monday, 1 September 2025 12:30 (30 minutes)

Presenter: SOLA, Joan (Universitat de Barcelona)

Contribution ID: 43

Type: **not specified**

News from extended scalar sectors

Tuesday, 26 August 2025 16:30 (30 minutes)

Presenter: ROBENS, Tania (Rudjer Boskovic Institute (HR))

Contribution ID: 44

Type: **not specified**

An update on axion dark matter searches, muon g-2 and EDMs

Thursday, 28 August 2025 17:00 (40 minutes)

Presenter: SEMERTZIDIS, Yannis (IBS/CAPP and KAIST in Republic of Korea (South Korea))

Contribution ID: 45

Type: **not specified**

Muon g-2 Anomaly in Beyond Standard Model

Presenter: ASHRY, Mustafa (Department of Mathematics, Faculty of Science, Cairo University, Giza 12613, Egypt)

Contribution ID: **46**

Type: **not specified**

Search for Light Scalars in the TRSM at the LHC

Tuesday, 26 August 2025 17:30 (20 minutes)

Presenter: OUCHEMHOU, Mohamed (Ruđer Bošković Institute, Bijenicka cesta 54, P.O. Box 180, 10002 Zagreb , Croatia)

Contribution ID: **48**

Type: **not specified**

Search for Higgs boson pair production in the HH->bbyy channel with the ATLAS experimen

Tuesday, 26 August 2025 18:30 (20 minutes)

Presenter: TARTARIN, Matthias Jean (Laboratoire des 2 Infinis - Toulouse, CNRS / Univ. Paul Sabatier (FR))

Sum Rules of Gravitational Form Factors in Perturbative QCD

Tuesday, 26 August 2025 10:00 (30 minutes)

Presenter: CORIANÒ, claudio (INFN Lecce)

Contribution ID: **50**

Type: **not specified**

Anomaly and Topology

Monday, 1 September 2025 18:10 (20 minutes)

Presenter: BAGEJA, Lakshita

Contribution ID: 51

Type: **not specified**

Gauge Invariant Effective Potential

Presenter: CHAKRABORTTY, Joydeep (IIT Kanpur)

Contribution ID: 52

Type: **not specified**

Dynamical Dark Energy and DESI

Monday, 1 September 2025 10:30 (30 minutes)

Presenter: DE LA MACORRA, A.

Workshop on St ... / Report of Contributions

TBA

Contribution ID: 53

Type: **not specified**

TBA

Presenter: DEPPISCH, Frank F

Contribution ID: 54

Type: **not specified**

Time, quantum entanglement and particle decay

Monday, 25 August 2025 18:40 (30 minutes)

Presenter: AGUILAR SAAVEDRA, Juan Antonio (Consejo Superior de Investigaciones Científicas (ES))

Contribution ID: 55

Type: **not specified**

Probing New Physics with Rare and Exotic Pion Decays

Friday, 29 August 2025 09:30 (30 minutes)

Presenter: ALTMANNSHOFER, Wolfgang (UC Santa Cruz)

Workshop on St ... / Report of Contributions

The discovery of W and Z bosons ...

Contribution ID: 56

Type: **not specified**

The discovery of W and Z bosons 42 years ago ... What lessons can we learn?

Friday, 29 August 2025 09:00 (30 minutes)

Presenter: FAYARD, Louis (Université Paris-Saclay (FR))

Contribution ID: 57

Type: **not specified**

New Thermal Decoupling Windows to the Dark Sector

Monday, 1 September 2025 12:00 (30 minutes)

Presenter: FITZPATRICK, Patrick (Universidad Nacional Autónoma de México)

Contribution ID: 58

Type: **not specified**

Einstein-Hilbert gravity from Weyl gauge invariant DBI action in conformal geometry

Presenter: GHILENCEA, Dumitru (Unknown)

Contribution ID: 59

Type: **not specified**

Modular Symmetry with Weightons

Monday, 25 August 2025 13:00 (30 minutes)

Presenter: KING, Steve

Contribution ID: **60**

Type: **not specified**

RockStar Baryogenesis: Baryogenesis from primordial CP violation

Tuesday, 26 August 2025 12:00 (30 minutes)

I will present a novel Baryogenesis mechanism in which an asymmetry of scalars in a three-Higgs doublet model produced exiting a CP-violating inflationary set-up is translated into an asymmetry of baryons through electroweak instantons.

Authors: KOLB, Edward (University of Chicago); KEUS, Venus (Dublin Institute for Advanced Studies (DIAS))

Presenter: KEUS, Venus (Dublin Institute for Advanced Studies (DIAS))

Contribution ID: 61

Type: **not specified**

Reconciling cosmological tensions with inelastic dark matter and dark radiation in a U(1)D framework

Presenter: MAHAPATRA, Satyabrata (Sungkyunkwan University)

Contribution ID: 62

Type: **not specified**

Axions, black holes and the detections of gravitons

Tuesday, 2 September 2025 11:30 (30 minutes)

Presenter: MAVROMATOS, Nikos (University of London (GB))

Contribution ID: 63

Type: **not specified**

Gravitational waves from a curvature-induced phase transition of a Higgs-portal dark matter sector

Tuesday, 2 September 2025 12:00 (30 minutes)

Presenter: MANTZIRIS, Andreas (University of Coimbra)

Contribution ID: 64

Type: **not specified**

High-Precision Spectroscopy of Kaonic Atoms at SIDDHARTA-2: probing fundamental interactions

Monday, 25 August 2025 17:00 (30 minutes)

Presenter: MANTI, Simone

High frequency gravitational waves and superheavy magnetic monopoles in C-parity even SO(10) GUTs

Tuesday, 2 September 2025 12:30 (30 minutes)

Presenter: MAJI, Rinku (Center for Theoretical Physics of the Universe, Institute for Basic Science)

Contribution ID: **66**

Type: **not specified**

Status of MoDEAL

Tuesday, 2 September 2025 14:00 (30 minutes)

Presenter: MITSOU, Vasiliki (IFIC - CSIC and Univ. of Valencia (ES))

Indirect dark-matter searches with gamma-rays experiments: status and future plans from 300 KeV to 100 TeV

Thursday, 28 August 2025 10:30 (30 minutes)

Presenters: MORSELLI, Aldo (Istituto Nazionale di Fisica Nucleare Sezione di Roma 1); MORSELLI, Aldo

Contribution ID: **68**

Type: **not specified**

Quantum entanglement of ions for light dark matter detection

Wednesday, 27 August 2025 13:00 (30 minutes)

Presenter: NAKANO, Wakutaka (KEK)

Contribution ID: 69

Type: **not specified**

The stochastic approach for anomalies in supersymmetric theories

Sunday, 31 August 2025 15:30 (30 minutes)

Presenter: NICOLIS, Stam

Contribution ID: **70**

Type: **not specified**

Multi-component dark matter from Minimal Flavor Violation

Thursday, 28 August 2025 16:00 (30 minutes)

Presenter: OKAWA, Shohei (KEK)

Contribution ID: 71

Type: **not specified**

Light states in real multi-Higgs models with spontaneous CP violation

Monday, 25 August 2025 17:30 (20 minutes)

Presenter: QUEIROZ CORREA, Daniel

Contribution ID: 72

Type: **not specified**

Entanglement in particle physics.

Monday, 25 August 2025 16:30 (30 minutes)

Presenter: SHAH, Nausheen (Wayne State University)

Contribution ID: 73

Type: **not specified**

Asteroid-mass soliton as the dark matter-baryon coincidence solution

Friday, 29 August 2025 12:00 (30 minutes)

Presenter: XIE, Kepan (Beihang University)

Contribution ID: 74

Type: **not specified**

CMS highlights

Tuesday, 26 August 2025 09:00 (1 hour)

Presenter: GALLINARO, Michele (LIP Lisbon)

Contribution ID: 75

Type: **not specified**

Flavour-deconstructed neutrinos

Sunday, 31 August 2025 13:00 (30 minutes)

Presenter: VICENTE, Avelino (IFIC - CSIC / U. Valencia)

Contribution ID: 76

Type: **not specified**

Quantum gravity effective action and the Standard Model

Sunday, 31 August 2025 09:00 (30 minutes)

Presenter: MIKOVIC, Aleksandar

Contribution ID: 77

Type: **not specified**

SUSY meets SMEFT

Sunday, 31 August 2025 09:30 (30 minutes)

Presenter: WILSCH, Felix (RWTH Aachen University)

Contribution ID: 78

Type: **not specified**

Stop and Gluino Searches at LHC and Future Colliders in the SUSY SO(10) GUTs

Presenter: UN, Cem Salih (Bursa Uludag University)

Contribution ID: 79

Type: **not specified**

Flavor symmerty violation in kaonic sector beyond known effects

Sunday, 31 August 2025 12:30 (30 minutes)

Presenter: GAZDZICKI, Marek (Jan Kochanowski University (PL))

Contribution ID: **80**

Type: **not specified**

Gravitational waves from supercooled phase transitions

Tuesday, 2 September 2025 09:00 (30 minutes)

Presenter: NATH, Pran

Contribution ID: **81**

Type: **not specified**

Gravitational Waves from metastable cosmic strings and scalar perturbations in grand unified theories

Sunday, 31 August 2025 16:50 (30 minutes)

Presenter: MOURSY, Ahmad

Contribution ID: **82**

Type: **not specified**

Gravitational waves from more attractive dark binaries

Tuesday, 2 September 2025 09:30 (30 minutes)

Presenter: ORLOFSKY, Nicholas (University of Warsaw)

Contribution ID: 83

Type: **not specified**

Quantum Gravity Meets DESI: Dynamical Dark Energy in Light of Swampland Trans-Planckian Censorship Conjecture

Presenter: WANG, Junkai (Department of Modern Physics, School of Physics, Nanjing University)

Contribution ID: 84

Type: **not specified**

Deuteron gravitational form factors, generalized parton distributions, and charge density in the framework of the soft-wall AdS/QCD model

Presenter: ALLAHVERDIYEVA, Minaya (Institute of Physics, The Ministry of Science and Education)

Contribution ID: 85

Type: **not specified**

Dark Hydrogen Atoms as Baryonic Dark Matter

Presenter: OKS, Eugene (Auburn University, USA)

Workshop on St ... / Report of Contributions

From E- & T- Model to E_p- & T_p- ...

Contribution ID: **86**

Type: **not specified**

From E- & T- Model to E_p- & T_p- Model Inflation in view of ACT

Tuesday, 2 September 2025 13:30 (30 minutes)

Presenter: PALLIS, Constantinos (Unknown)

Contribution ID: 87

Type: **not specified**

Critical Unstable Qubits in Particle Physics and Beyond

Monday, 25 August 2025 18:10 (30 minutes)

Presenter: PILAFTSIS, Apostolos (The University of Manchester (GB))

Contribution ID: **88**

Type: **not specified**

Axion dark matter from heavy quarks

Presenter: AGHAIE MOGHADAM, Ozbak Mohammad

Contribution ID: **89**

Type: **not specified**

Preheating in Einstein-Cartan Higgs Inflation: The Rise and Fall of Oscillons

Friday, 29 August 2025 12:30 (30 minutes)

The post-inflationary dynamics of the Universe can be dramatically reshaped by non-perturbative phenomena. In this talk, I will present recent advances in understanding preheating in Higgs inflation within the framework of Einstein-Cartan gravity. Using large-scale lattice simulations, we demonstrate that the non-minimal coupling of the Higgs field can trigger the formation of localized and dense oscillon configurations, storing up to 70% of the energy density. These meta-stable objects can transiently dominate the energy budget, altering the thermal history and sourcing a strong gravitational wave signal, albeit at frequencies beyond the reach of planned detectors. In contrast, we also uncover a novel class of ephemeral oscillons that decay rapidly due to self-interactions at small field values, releasing their energy into radiation much more efficiently. This leads to a swift transition to a radiation-dominated epoch, constraining the duration of reheating and refining predictions for inflationary observables.

Presenter: RUBIO, Javier (Universidad Complutense de Madrid)

Contribution ID: 90

Type: **not specified**

Landscape of QCD Vacuum and Large Scale Structure of the Universe

Presenter: SAVVIDY, George

Contribution ID: 91

Type: **not specified**

Effects of reheating on charged lepton Yukawa equilibration and leptogenesis

Tuesday, 2 September 2025 10:30 (30 minutes)

Presenter: ROSHAN, Rishav (University of Southampton)

Contribution ID: 93

Type: **not specified**

Experimental particle physics priorities 2025: A String Phenomenology Perspective

Tuesday, 26 August 2025 12:30 (30 minutes)

Presenter: FARAGGI, Alon (University of Liverpool (GB))

Contribution ID: 94

Type: **not specified**

Higgs physics in ATLAS and CMS

Monday, 25 August 2025 12:00 (30 minutes)

Presenter: BLANCO FERNANDEZ, Sergio (Universidad de Cantabria and CSIC (ES))

Contribution ID: 95

Type: **not specified**

Signals in the neutrino fog: probing solar CEvNS and the Dark Matter landscape

Presenter: PAPOULIAS, Dimitrios (IFIC (CSIC/Valencia U.))

Contribution ID: **96**

Type: **not specified**

Thermal production of (astrophobic) axions

Monday, 1 September 2025 16:00 (30 minutes)

Presenter: BADZIAK, Marcin

Contribution ID: 97

Type: **not specified**

Opening

Saturday, 30 August 2025 09:30 (30 minutes)

George Zoupanos, George Leontaris, Qaisar Shafi

Contribution ID: **98**

Type: **not specified**

In Memory of my friend Geoge

Gustavo C. Branco describes some of his recollections of our friend George.

Contribution ID: 99

Type: **not specified**

Probing the Higgs potential via di-Higgs and triple-Higgs production processes

Thursday, 28 August 2025 12:00 (30 minutes)

Presenter: WEIGLEIN, Georg Ralf (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: **100**

Type: **not specified**

Impact of polarized beams on Higgs&BSM physics at high-energy e+e- and gamma-gamma colliders

Thursday, 28 August 2025 16:30 (30 minutes)

Presenter: MOORTGAT-PICK, Gudrid

Contribution ID: **101**

Type: **not specified**

Presentations

Saturday, 30 August 2025 11:30 (2 hours)

Panagiota (Yiota) Kanti Talk in person

Nick Mavromatos Talk in person

Leszek Roszkowski Talk in person

Goran Senjanovic Talk in person

Joannis Vergados Talk in person

Eirini Tziaferi Talk in person

Ignatios Antoniadis Talk online

Elias Kiritsis Talk online

Konstantinos Dimopoulos Talk in person

Constantinos Pallis Talk in person

Contribution ID: **102**

Type: **not specified**

Qumode tensor networks for false vacuum decay in quantum field theory

Monday, 1 September 2025 17:00 (30 minutes)

Presenter: ABEL, Steven Adam (University of Durham (GB))

Contribution ID: **103**

Type: **not specified**

SUSY dark matter: can it be determined from lepton observables?

Monday, 1 September 2025 13:00 (30 minutes)

Presenter: GOMEZ, Mario E.

Contribution ID: **104**

Type: **not specified**

A theory of flavor and CP

Thursday, 28 August 2025 11:30 (30 minutes)

Presenter: NILLES, Hans Peter (Technische Universitaet Muenchen (DE))

Contribution ID: **105**

Type: **not specified**

Presentations

Saturday, 30 August 2025 10:00 (1 hour)

Christof Wetterich Talk online
Gustavo C Branco Talk in person
Franco Buccella Talk in person
Claudio Coriano Talk in person
Steve King Talk in person
Kotas Kokkotas Talk in person
Antonio Masiero Talk in person

Contribution ID: **106**

Type: **not specified**

Prizes

Saturday, 30 August 2025 18:30 (15 minutes)

Distribution of Prizes

Contribution ID: **107**

Type: **not specified**

Reading of written Contributions

Saturday, 30 August 2025 18:05 (25 minutes)

Contribution ID: **108**

Type: **not specified**

Pesentations

Saturday, 30 August 2025 15:00 (1h 30m)

Mario Gomez Talk in person

Rinku Majii Talk in person

Ahmad Elsayed Moursy Talk in person

Rishav Roshan Talk in person

Qaisar Shafi Talk in person

Amin Patani Slides

Jogesh Pati Slides

Contribution ID: **109**

Type: **not specified**

Presentations

Saturday, 30 August 2025 16:50 (1h 15m)

Ananthanarayan Balasubramanian Talk online

Joydeep Chakrabortty Talk online

Gia Dvali Talk online

Shabaan Khalil Talk online

Tanmay Vachaspati Talk online

Contribution ID: 110

Type: **not specified**

Einstein-Cartan gravity and its applications in particle physics and cosmology

Friday, 29 August 2025 17:30 (30 minutes)

Presenter: SHAPOSHNIKOV, Mikhail (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 111

Type: **not specified**

Quarkonium parton shower in Herwig 7

Monday, 25 August 2025 19:10 (20 minutes)

Presenter: MASOUMINIA, Aidin (IPPP, Durham University)

Contribution ID: 112

Type: **not specified**

Marathon experiment and isospin asymmetries in the proton sea with the statistical parton distributions

Tuesday, 26 August 2025 16:00 (30 minutes)

Presenter: BUCCELLA, Franco (Unknown)

Does spin-3/2 imply supersymmetry? An on-shell perspective

Thursday, 28 August 2025 18:30 (30 minutes)

Presenter: KE, Wenqi (University of Minnesota)

Assisted fibre inflation

Friday, 29 August 2025 10:30 (30 minutes)

Presenter: LEONTARIS, George (University of Ioannina (GR))

Contribution ID: 115

Type: **not specified**

Lessons for axion dark matter from non-standard cosmologies

Thursday, 28 August 2025 18:00 (30 minutes)

Presenter: ROSZKOWSKI, Leszek (National Centre for Nuclear Research (PL))

Searches for low-mass (pseudo-) scalars at the LHC

Thursday, 28 August 2025 12:30 (30 minutes)

Presenters: GASCON-SHOTKIN, Susan Shotkin (Centre National de la Recherche Scientifique (FR)); GASCON-SHOTKIN, Suzanne (IPN Lyon/Universite Claude Bernard Lyon 1)

Contribution ID: 117

Type: **not specified**

Hunting for BSM through HVP tests at the high-precision low-energy frontier

Friday, 29 August 2025 18:20 (30 minutes)

Presenter: MASIERO, Antonio (Univ. of Padova)

Contribution ID: **118**

Type: **not specified**

FCC overview

Friday, 29 August 2025 18:50 (30 minutes)

Presenters: GASCON-SHOTKIN, Susan Shotkin (Centre National de la Recherche Scientifique (FR)); GASCON-SHOTKIN, Suzanne (IPN Lyon/Universite Claude Bernard Lyon 1)

Contribution ID: 119

Type: **not specified**

Multi-component dark matter in a Q6 symmetric model

Tuesday, 2 September 2025 10:00 (30 minutes)

Presenter: ESPINOZA HERNÁNDEZ, Catalina (Instituto de Física, Universidad Nacional Autónoma de México.)

Searches for non-Standard Model decays of the Higgs to two light bosons in CMS

Monday, 1 September 2025 17:50 (20 minutes)

Presenter: PASCHOS, Konstantinos (National Technical Univ. of Athens (GR))

Contribution ID: 121

Type: not specified

Optical gravitational waves as signals of gravitationally-decaying particles

Presenter: STRUMIA, Alessandro

Contribution ID: 122

Type: **not specified**

Closing

Saturday, 30 August 2025 18:45 (15 minutes)

Contribution ID: 123

Type: **not specified**

QUEST-DMC: quantum technology for dark matter

Thursday, 28 August 2025 13:00 (30 minutes)

Presenter: DARVISHI, Neda (Royal Holloway University of London)

Predictions for charged lepton flavour violation from flavour (and CP) symmetries

Monday, 25 August 2025 16:00 (30 minutes)

Presenter: HAGEDORN, Claudia (IFIC, Valencia)

Contribution ID: 125

Type: not specified

Data-driven analyses and model-independent fits for present $b \rightarrow s \ell \ell$ results

Wednesday, 27 August 2025 11:30 (30 minutes)

Presenter: MAHMOUDI, Nazila (Universite Claude Bernard Lyon I (FR))

Contribution ID: 126

Type: not specified

Vacuum boundary effects in gauge theories

Sunday, 31 August 2025 10:30 (30 minutes)

Presenter: ASOREY, Manuel (Universidad de Zaragoza)

Trinification models in finite theories

Sunday, 31 August 2025 12:00 (30 minutes)

Presenter: MONDRAGON, Myriam