

**HEP 2021 - 38th Conference  
on Recent Developments in  
High Energy Physics and  
Cosmology, Thessaloniki,  
Greece**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Highlights and perspectives from the ATLAS experiment

*Wednesday, 16 June 2021 09:10 (40 minutes)*

**Presenter:** KADO, Marumi (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Plenary 1 Wed 16/6

Contribution ID: 2

Type: **not specified**

## **CMS Highlights**

*Wednesday, 16 June 2021 09:50 (40 minutes)*

**Presenter:** HAMEL DE MONCHENAULT, Gautier (IRFU, CEA, Université Paris-Saclay (FR))

**Session Classification:** Plenary 1 Wed 16/6

Contribution ID: 3

Type: **not specified**

## Testing the Cosmological Principle

*Wednesday, 16 June 2021 10:30 (40 minutes)*

**Presenter:** SARKAR, Subir (University of Oxford (GB))

**Session Classification:** Plenary 1 Wed 16/6

Contribution ID: 4

Type: **not specified**

## Welcome from the LOC

*Wednesday, 16 June 2021 09:00 (10 minutes)*

**Session Classification:** Plenary 1 Wed 16/6

Contribution ID: 5

Type: **not specified**

## **Model-building Inflation and Dark Energy**

*Wednesday, 16 June 2021 11:20 (40 minutes)*

**Presenter:** DIMOPOULOS, Konstantinos

**Session Classification:** Plenary 2, Wed 16/6

Contribution ID: 6

Type: **not specified**

## **Present and Future developments of Accelerators for particle physics research and beyond**

*Wednesday, 16 June 2021 12:00 (40 minutes)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

**Session Classification:** Plenary 2, Wed 16/6

Contribution ID: 7

Type: **not specified**

# High Intensity Frontier Physics at the European Spallation Source

*Wednesday, 16 June 2021 12:40 (40 minutes)*

**Presenter:** DRACOS, Marcos

**Session Classification:** Plenary 2, Wed 16/6



Contribution ID: 8

Type: **not specified**

## **(g-2)<sub>μ</sub> : Is the end of the Standard Model nigh?**

*Wednesday, 16 June 2021 14:00 (40 minutes)*

**Presenter:** TEUBNER, Thomas (University of Liverpool)

**Session Classification:** Plenary 3, Wed 16/6

Contribution ID: 9

Type: **not specified**

## **g-2 and EDM measurements and their impact to the discovery of New Physics**

*Wednesday, 16 June 2021 14:40 (40 minutes)*

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

**Session Classification:** Plenary 3, Wed 16/6

Contribution ID: **10**

Type: **not specified**

## **Probing Muon $g-2$ in SUSY GUTs with LHC-Run3 and Dark Matter Experiments**

*Wednesday, 16 June 2021 15:20 (25 minutes)*

**Presenter:** UN, Cem Salih (Bursa Uludag University)

**Session Classification:** Plenary 3, Wed 16/6

Contribution ID: 11

Type: **not specified**

## **Development of processors for triggering high energy physics experiments**

*Wednesday, 16 June 2021 16:00 (20 minutes)*

**Presenter:** BESTINTZANOS, Ioannis (University of Ioannina (GR))

**Session Classification:** Experiment I

Contribution ID: 12

Type: **not specified**

# **Hermes - A robust, low latency, optical link protocol for synchronous data transfer at commercial asynchronous line rates**

*Wednesday, 16 June 2021 16:20 (20 minutes)*

**Presenter:** ADAMIDIS, Kosmas (University of Ioannina (GR))

**Session Classification:** Experiment I

Contribution ID: 13

Type: **not specified**

## **NEWS-G: Search for Light Dark Matter with a Spherical Proportional Counter**

*Wednesday, 16 June 2021 16:40 (20 minutes)*

**Presenter:** KNIGHTS, Patrick Ryan (University of Birmingham)

**Session Classification:** Experiment I

Contribution ID: 14

Type: **not specified**

## **Characterisation and fiducialisation capabilities of an ACHINOS multi-anode sensor for NEWS-G**

*Wednesday, 16 June 2021 17:00 (20 minutes)*

**Presenter:** SAVVIDIS, George (Queen's University)

**Session Classification:** Experiment I

Contribution ID: 15

Type: **not specified**

**Search for physics beyond the standard model in  
final states with two or three soft leptons and  
missing transverse momentum in proton-proton  
collisions at  $\sqrt{s} = 13$  TeV**

*Wednesday, 16 June 2021 17:20 (20 minutes)*

**Presenters:** VOURLIOTIS, Emmanouil (National and Kapodistrian University of Athens (GR)); PA-PAVERGOU, Ioanna (National and Kapodistrian University of Athens (GR))

**Session Classification:** Experiment I



Contribution ID: 16

Type: **not specified**

## **Measurement of the double differential dijet mass cross section at 13 TeV with CMS**

*Wednesday, 16 June 2021 17:40 (20 minutes)*

**Presenter:** KOSMOGLOU KIOSEOGLOU, Polidamas Georgios (University of Ioannina (GR))

**Session Classification:** Experiment I

Contribution ID: 17

Type: **not specified**

## **Measurement of azimuthal correlations of jets and determination of the strong coupling in pp collisions at 13 TeV with CMS**

*Wednesday, 16 June 2021 18:00 (20 minutes)*

**Presenter:** GIANNEIOS, Paris (University of Ioannina (GR))

**Session Classification:** Experiment I

Contribution ID: **18**

Type: **not specified**

## **Search for Supersymmetry in single-lepton events with the full RunII data from the CMS experiment**

*Wednesday, 16 June 2021 18:20 (20 minutes)*

**Presenter:** KONTAXAKIS, Pantelis (National and Kapodistrian University of Athens (GR))

**Session Classification:** Experiment I

Contribution ID: 19

Type: **not specified**

## **Search for charged lepton flavour violation in top quark decays**

*Wednesday, 16 June 2021 18:40 (20 minutes)*

**Presenter:** STAMPEKIS, Alexios (University of Birmingham (GB))

**Session Classification:** Experiment I

Contribution ID: 20

Type: **not specified**

## **Process quality control of silicon sensors for the Phase-2 upgrade of the CMS Outer Tracker**

*Wednesday, 16 June 2021 19:00 (20 minutes)*

**Presenter:** ASSIOURAS, Panagiotis (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Experiment I

Contribution ID: 21

Type: **not specified**

## **Design of a Differential Safety Mechanism (DSM) Dedicated to the NSW Micromegas Wedges**

*Wednesday, 16 June 2021 19:20 (20 minutes)*

**Presenters:** MESOLONGITIS, Ioannis (University of West Attica (GR)); MALTEZOS, Stavros (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment I

Contribution ID: 22

Type: **not specified**

## **LHCb : recent physics results and upgrades**

*Thursday, 17 June 2021 09:00 (40 minutes)*

**Presenter:** SCHUNE, Marie-Helene (Université Paris-Saclay (FR))

**Session Classification:** Plenary 4, Thu 17/6

Contribution ID: 23

Type: **not specified**

## **Challenges of an accelerating universe in string theory**

*Thursday, 17 June 2021 09:40 (40 minutes)*

**Presenter:** ANTONIADIS, Ignatios (UPMC)

**Session Classification:** Plenary 4, Thu 17/6



Contribution ID: 24

Type: **not specified**

## Asymptotics, holography and fluids

*Thursday, 17 June 2021 10:20 (40 minutes)*

**Presenter:** PETROPOULOS, Marios (Ecole polytechnique - CNRS)

**Session Classification:** Plenary 4, Thu 17/6

Contribution ID: 25

Type: **not specified**

## **Non-Parametric Data-Driven Background Modelling using Conditional Probabilities**

*Thursday, 17 June 2021 11:10 (25 minutes)*

**Presenter:** NIKOLOPOULOS, Konstantinos (University of Birmingham (GB))

**Session Classification:** Plenary 5, Thu 17/6

Contribution ID: 26

Type: **not specified**

## **Research activities of the ATLAS NCSR Demokritos group**

*Thursday, 17 June 2021 11:35 (25 minutes)*

**Presenter:** GERALIS, Theodoros (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Plenary 5, Thu 17/6

Contribution ID: 27

Type: **not specified**

## **Emergent fields from hidden sectors**

*Thursday, 17 June 2021 12:00 (25 minutes)*

**Presenter:** ANASTASOPOULOS, Pascal (University of Vienna)

**Session Classification:** Plenary 5, Thu 17/6

Contribution ID: 28

Type: **not specified**

## **SU(2,1)/(SU(2)x U(1)) B-L Higgs Inflation**

*Thursday, 17 June 2021 12:25 (25 minutes)*

**Presenter:** PALLIS, Constantinos (Aristotle University of Thessaloniki)

**Session Classification:** Plenary 5, Thu 17/6

Contribution ID: 29

Type: **not specified**

## **Observability of Higgs self-coupling at the HL-LHC and HE-LHC**

*Thursday, 17 June 2021 12:50 (25 minutes)*

**Presenter:** ADHIKARY, Amit (Indian Institute of Science)

**Session Classification:** Plenary 5, Thu 17/6

Contribution ID: **30**

Type: **not specified**

## **ENUBET and the CERN neutrino programme**

*Thursday, 17 June 2021 14:00 (40 minutes)*

**Presenter:** LONGHIN, Andrea (Universita e INFN, Padova (IT))

**Session Classification:** Plenary 6, Thu 17/6

Contribution ID: **31**

Type: **not specified**

## Precise Timing in HEP

*Thursday, 17 June 2021 14:40 (40 minutes)*

**Presenter:** WHITE, Sebastian (University of Virginia (US))

**Session Classification:** Plenary 6, Thu 17/6



Contribution ID: 32

Type: **not specified**

## **Signal processing techniques for precise timing with novel gaseous detectors**

*Thursday, 17 June 2021 15:20 (25 minutes)*

**Presenter:** MANTHOS, Ioannis (Aristotle University of Thessaloniki)

**Session Classification:** Plenary 6, Thu 17/6

Contribution ID: 35

Type: **not specified**

## **Feasibility study of Muon Tomography application in a non-invasive representation of tumulus**

*Thursday, 17 June 2021 16:00 (20 minutes)*

**Presenter:** KALAITZIDOU, Iliia (Aristotle University of Thessaloniki (GR))

**Session Classification:** Parallel

Contribution ID: 36

Type: **not specified**

## **Observation of ZZ production via Vector Boson Scattering in ATLAS**

*Thursday, 17 June 2021 16:20 (20 minutes)*

**Presenter:** MAZNAS, Ioannis (Aristotle University of Thessaloniki (GR))

**Session Classification:** Parallel

Contribution ID: 37

Type: **not specified**

## **Studies on dim-8 EFT limit setting in p-p collisions at centre-of-mass energy of 13 TeV for the EWK production of ZZjj in the four-lepton channel**

*Thursday, 17 June 2021 16:40 (20 minutes)*

**Presenter:** MARANTIS, Alexandros (Aristotle University of Thessaloniki (GR))

**Session Classification:** Parallel

Contribution ID: **38**

Type: **not specified**

## **Recent results in the search for resonant $W_{\pm} Z \rightarrow \ell\nu\ell\ell$ production in Run-2 with the ATLAS detector**

*Thursday, 17 June 2021 17:00 (20 minutes)*

**Presenter:** TSOPOULOU, Maria-Evanthia (Aristotle University of Thessaloniki (GR))

**Session Classification:** Parallel

Contribution ID: 39

Type: **not specified**

## **Extensive Air Shower Reconstruction using the timing information from the RF-system of the Astroneu array.**

*Thursday, 17 June 2021 17:20 (20 minutes)*

**Presenter:** NONIS, Stavros (University of the Aegean)

**Session Classification:** Parallel

Contribution ID: 40

Type: **not specified**

## **The microNet ( $\mu$ Net) project: An extended network of educational cosmic ray telescopes.**

*Thursday, 17 June 2021 17:40 (20 minutes)*

**Presenter:** PETROPOULOS, Michael (Hellenic Open Univeristy)

**Session Classification:** Parallel

Contribution ID: 41

Type: **not specified**

## **Search for exclusive hadronic W boson decays with the ATLAS experiment**

*Thursday, 17 June 2021 18:00 (20 minutes)*

**Presenter:** SILVA, Julia Manuela (University of Birmingham (GB))

**Session Classification:** Parallel



Contribution ID: 42

Type: **not specified**

## **DarkSPHERE: Reaching the neutrino floor with a Spherical Proportional Counter**

*Thursday, 17 June 2021 18:20 (20 minutes)*

**Presenter:** MATTHEWS, Jack (University of Birmingham)

**Session Classification:** Parallel

Contribution ID: 43

Type: **not specified**

## **Searches for Rare and Forbidden Exclusive Decays of the Higgs and Z Bosons to a Meson and a Photon with the ATLAS Experiment**

*Thursday, 17 June 2021 18:40 (20 minutes)*

**Presenter:** WARD, Robert James (University of Birmingham (GB))

**Session Classification:** Parallel

Contribution ID: 44

Type: **not specified**

## Effective Action for Scalar Leptoquarks

*Thursday, 17 June 2021 16:00 (20 minutes)*

**Presenter:** MANTZAROPOULOS, Kostas (University of Ioannina)

**Session Classification:** Parallel

Contribution ID: 45

Type: **not specified**

## **Cosmological implications of EW vacuum instability: constraints on the Higgs-curvature coupling from inflation**

*Thursday, 17 June 2021 16:20 (20 minutes)*

**Presenter:** MANTZIRIS, Andreas (Imperial College London)

**Session Classification:** Parallel

Contribution ID: 46

Type: **not specified**

## **Autonomous dynamical system of Einstein–Gauss–Bonnet cosmologies**

*Thursday, 17 June 2021 16:40 (20 minutes)*

**Presenter:** CHATZARAKIS, Nikolaos (Aristotle University of Thessaloniki)

**Session Classification:** Parallel

Contribution ID: 47

Type: **not specified**

# Rescaled Einstein Hilbert Gravity: Inflation and the Swampland Criteria

*Thursday, 17 June 2021 17:00 (20 minutes)*

**Presenter:** GITSIS, Achilles (Aristotle University of Thessaloniki)

**Session Classification:** Parallel

Contribution ID: 48

Type: **not specified**

## **Primordial Black Holes And Gravitational Waves Based On No Scale Supergravity**

*Thursday, 17 June 2021 17:20 (20 minutes)*

**Presenter:** STAMOU, Ioanna (National and Kapodistrian University of Athens)

**Session Classification:** Parallel

Contribution ID: 49

Type: **not specified**

## **Scale-invariance, dynamically induced Planck scale and inflation in the Palatini formulation**

*Thursday, 17 June 2021 17:40 (20 minutes)*

**Presenter:** GIALAMAS, Ioannis (National and Kapodistrian University of Athens)

**Session Classification:** Parallel



Contribution ID: 50

Type: **not specified**

# Quantum fluctuations of baryon number density

*Thursday, 17 June 2021 18:00 (20 minutes)*

**Presenter:** SINGH, Rajeev (Institute of Nuclear Physics Polish Academy of Sciences)

**Session Classification:** Parallel

Contribution ID: 51

Type: **not specified**

## **Progress on Feynman Integrals for 2→3 scattering at NNLO**

*Thursday, 17 June 2021 18:20 (20 minutes)*

**Presenter:** SYRRAKOS, Nikolaos (NCSR DEMOKRITOS)

**Session Classification:** Parallel

Contribution ID: 52

Type: **not specified**

## **Progress on 2-loop Amplitude Reduction**

*Thursday, 17 June 2021 18:40 (20 minutes)*

**Presenter:** CANKO, Dhimiter (NSCR "Demokritos")

**Session Classification:** Parallel

Contribution ID: 53

Type: **not specified**

## **One-Loop Phenomenology in the SM EFT**

*Thursday, 17 June 2021 19:00 (20 minutes)*

**Presenter:** TRIFYLLIS, Lampros (University of Ioannina)

**Session Classification:** Parallel

Contribution ID: 56

Type: **not specified**

## **ALICE: status, physics. Future**

*Friday, 18 June 2021 09:00 (40 minutes)*

**Presenter:** PLOSKON, Mateusz (Lawrence Berkeley National Lab. (US))

**Session Classification:** Plenary 7, Fri 18/6

Contribution ID: 57

Type: **not specified**

## Holography

*Friday, 18 June 2021 09:40 (40 minutes)*

**Presenter:** SKENDERIS, Kostas

**Session Classification:** Plenary 7, Fri 18/6

Contribution ID: 58

Type: **not specified**

# An EFT analysis of Vector Boson scattering at the LHC

*Friday, 18 June 2021 10:20 (25 minutes)*

**Presenter:** DEDES, Athanasios (University of Ioannina)

**Session Classification:** Plenary 7, Fri 18/6

Contribution ID: 59

Type: **not specified**

# Gravity with Perimeter Action and Gravitational Singularities

*Friday, 18 June 2021 10:45 (25 minutes)*

**Presenter:** SAVVIDIS, Georgios (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Plenary 7, Fri 18/6



Contribution ID: **60**

Type: **not specified**

## **Co-60 Irradiation at HL\_LHC levels of p-type silicon MOS capacitors and TCAD simulations**

*Friday, 18 June 2021 11:20 (25 minutes)*

**Presenter:** KYRIAKIS, Aristoteles (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Plenary 8, Fri 18/6

Contribution ID: **61**

Type: **not specified**

## **Probing new physics with nuclear and electron recoils**

*Friday, 18 June 2021 11:45 (25 minutes)*

**Presenter:** PAPOULIAS, Dimitrios (University of Ioannina)

**Session Classification:** Plenary 8, Fri 18/6

Contribution ID: **62**

Type: **not specified**

## **Embeddings of integrable models in supergravity and their perturbative stability**

*Friday, 18 June 2021 12:10 (25 minutes)*

**Presenter:** ITSIOS, Georgios (NKUA )

**Session Classification:** Plenary 8, Fri 18/6

Contribution ID: 63

Type: **not specified**

## **A Machine Learning approach to the EFT re-interpretation of the $WZjj$ fully leptonic EWK production**

*Friday, 18 June 2021 13:00 (25 minutes)*

**Presenter:** BACHAS, Dinos (Aristotle University of Thessaloniki)

**Session Classification:** Plenary 8, Fri 18/6

Contribution ID: 64

Type: **not specified**

## **Vector Boson Scattering with the ATLAS Detector and EFT prospects**

*Friday, 18 June 2021 12:35 (25 minutes)*

**Presenter:** SAMPSONIDOU, Despoina (Tsung-Dao Lee Institute (CN) & Shanghai Jiao Tong Univ. (CN))

**Session Classification:** Plenary 8, Fri 18/6

Contribution ID: 69

Type: **not specified**

# **Construction and operation of large scale Micromegas detectors for the ATLAS Muon upgrade**

*Friday, 18 June 2021 16:00 (20 minutes)*

**Presenter:** MANIATIS, Ioannis Michail (Aristotle University of Thessaloniki (GR))

**Session Classification:** Experiment III

Contribution ID: 70

Type: **not specified**

## **Performance of the final New Small Wheel Micromegas sectors for the ATLAS Muon Upgrade**

*Friday, 18 June 2021 16:20 (20 minutes)*

**Presenter:** PERGANTI, Maria (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment III

Contribution ID: 71

Type: **not specified**

## **ATLAS NSW Upgrade –sTGC Trigger and Commissioning**

*Friday, 18 June 2021 16:40 (20 minutes)*

**Presenter:** ZORMPA, Olga (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Experiment III



Contribution ID: 72

Type: **not specified**

## **A program to drive the ATLAS Local Trigger Interface (ALTI) at the ATLAS experiment**

*Friday, 18 June 2021 17:00 (20 minutes)*

**Presenter:** TRANTOU, Foteini (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Experiment III

Contribution ID: 73

Type: **not specified**

## **The Detector Control System of the New Small Wheel for the ATLAS experiment**

*Friday, 18 June 2021 17:20 (20 minutes)*

**Presenter:** TZANIS, Polyneikis (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment III

Contribution ID: 74

Type: **not specified**

## **The Detector Control System for the magnetic field sensors of the sTGC detector in New Small Wheel Phase I upgrade of ATLAS detector**

*Friday, 18 June 2021 17:40 (20 minutes)*

**Presenter:** TZANOS, Stamatios (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment III

Contribution ID: 75

Type: **not specified**

## **Implementation of the DCS System for the validation of MM HV Boards and the DCS System of the new BIS78 Chambers for the upgrade of muon system of the ATLAS Experiment**

*Friday, 18 June 2021 18:00 (20 minutes)*

**Presenter:** DRIVAS-KOULOURIS, Ioannis (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment III

Contribution ID: 76

Type: **not specified**

## **Hardware Tracking for the ATLAS Trigger and the Associative Memory ASIC**

*Friday, 18 June 2021 18:20 (20 minutes)*

**Presenter:** VGENOPOULOS, Andreas (Aristotle University of Thessaloniki (GR))

**Session Classification:** Experiment III

Contribution ID: 77

Type: **not specified**

## **The Fake Sector Logic for the ATLAS Muon Trigger system**

*Friday, 18 June 2021 18:40 (20 minutes)*

**Presenter:** PRAPA, Maria Myrto (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Experiment III

Contribution ID: 78

Type: **not specified**

## **Fake Background estimation in WZ diboson production**

*Friday, 18 June 2021 19:00 (20 minutes)*

**Presenter:** KARKANIAS, Ioannis (Aristotle University of Thessaloniki (GR))

**Session Classification:** Experiment III

Contribution ID: **80**

Type: **not specified**

# **An MC study of Dimension-6 effective field theory operators for the WZ inclusive production in ATLAS**

*Friday, 18 June 2021 19:40 (20 minutes)*

**Presenter:** LEONIDIS-GIANNOULAS, Christos (Aristotle University of Thessaloniki (GR))

**Session Classification:** Experiment III



Contribution ID: **81**

Type: **not specified**

## **The NSW project for the Phase I upgrade of the ATLAS Muon Spectrometer**

*Friday, 18 June 2021 14:00 (25 minutes)*

**Presenter:** FASSOULIOTIS, Dimitris (National and Kapodistrian University of Athens (GR))

**Session Classification:** Plenary 9, Fri 18/6

Contribution ID: 82

Type: **not specified**

## **Surface commissioning of the Micromegas detectors for the muon spectrometer NSW of the ATLAS experiment**

*Friday, 18 June 2021 14:25 (25 minutes)*

**Presenter:** KOURKOUMELI-CHARALAMPIDI, Athina (Universita and INFN (IT))

**Session Classification:** Plenary 9, Fri 18/6

Contribution ID: 83

Type: **not specified**

## **Methods used for Gas Tightness Test and percent Oxygen Monitoring of the NSW Micromegas Detectors of LHC-ATLAS Experiment**

*Friday, 18 June 2021 14:50 (25 minutes)*

**Presenter:** MALTEZOS, Stavros (National Technical Univ. of Athens (GR))

**Session Classification:** Plenary 9, Fri 18/6

Contribution ID: **84**

Type: **not specified**

## **Fast neutron spectroscopy: The nitrogen-filled Spherical Proportional counter**

*Friday, 18 June 2021 15:15 (25 minutes)*

**Presenter:** MANTHOS, Ioannis (University of Birmingham (GB))

**Session Classification:** Plenary 9, Fri 18/6

Contribution ID: 85

Type: **not specified**

## The Future of Particle Physics

*Saturday, 19 June 2021 09:50 (1h 10m)*

**Presenter:** ELLIS, Jonathan R. (University of London (GB))

**Session Classification:** Plenary 10, Sat 19/6

Contribution ID: 86

Type: **not specified**

## **PICOSEC Micromegas: Achievements in Precise Timing and Recent Advancements with Large Segmented Prototypes**

*Saturday, 19 June 2021 09:00 (25 minutes)*

**Presenter:** LAMPOUDIS, Christos (Aristotle University of Thessaloniki (GR))

**Session Classification:** Plenary 10, Sat 19/6

Contribution ID: **89**

Type: **not specified**

## **The hidden fluxes that control the stochastic closure of scalar fields**

*Saturday, 19 June 2021 12:15 (25 minutes)*

**Presenter:** NICOLIS, Stam (CNRS)

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: **90**

Type: **not specified**

## **String integrability of defect CFT and dynamical reflection matrices**

*Saturday, 19 June 2021 12:40 (25 minutes)*

**Presenter:** LINARDOPOULOS, Georgios (National Center for Scientific Research, Demokritos)

**Session Classification:** Plenary 11, Sat 19/6



Contribution ID: **91**

Type: **not specified**

## **Latest results of the R2D2 project: a possible future neutrino double beta decay experiment**

*Saturday, 19 June 2021 13:05 (25 minutes)*

**Presenter:** KATSIOULAS, Ioannis (University of Birmingham)

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: 93

Type: **not specified**

# The ATLAS L1Calo Trigger upgrade for the HL-LHC

*Saturday, 19 June 2021 13:30 (25 minutes)*

**Presenter:** BELLOS, Panagiotis (University of Birmingham (GB))

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: 94

Type: **not specified**

## **The REINFORCE citizen-science project and the search for new long-lived particles at the LHC**

*Saturday, 19 June 2021 13:55 (25 minutes)*

**Presenter:** ANGELIDAKIS, Stylianos (National and Kapodistrian University of Athens (GR))

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: 95

Type: **not specified**

## **An Update on the CERN Alumni Network**

*Saturday, 19 June 2021 14:20 (25 minutes)*

**Presenter:** BARONE, Michele (Nat. Cent. for Sci. Res. Demokritos (GR))

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: **100**

Type: **not specified**

## **Gravitational waves from density perturbations in the early universe**

*Saturday, 19 June 2021 11:50 (25 minutes)*

**Presenter:** DALIANIS, Yiannis (National and Kapodistrian University of Athens (GR) )

**Session Classification:** Plenary 11, Sat 19/6

Contribution ID: **101**

Type: **not specified**

## **Preliminary investigations towards the constraint of the Higgs boson self-coupling with $hh \rightarrow b\bar{b}\tau\tau$**

*Friday, 18 June 2021 19:20 (20 minutes)*

**Presenter:** PARASKEVOPOULOS, Christos (National Technical Univ. of Athens (GR))

**Session Classification:** Experiment III

Contribution ID: **102**

Type: **not specified**

## **Results and Prospects of the Hellenic Open University air shower array¶**

*Saturday, 19 June 2021 09:25 (25 minutes)*

**Presenter:** TSIRIGOTIS, Apostolos (Aristotle University of Thessaloniki (GR), Hellenic Open University)

**Session Classification:** Plenary 10, Sat 19/6

Contribution ID: **103**

Type: **not specified**

## **Semi-leptonic Penguin Decays**

*Saturday, 19 June 2021 11:10 (40 minutes)*

**Presenter:** HURTH, Tobias (Johannes Gutenberg Universitaet Mainz (DE))

**Session Classification:** Plenary 11, Sat 19/6



Contribution ID: **104**

Type: **not specified**

## Closing of the Conference

*Saturday, 19 June 2021 14:45 (5 minutes)*

**Presenters:** SAMPSONIDIS, Dimos (Aristotle University of Thessaloniki (GR)); ZACHARIADOU, Katerina (University of West Attica (GR))

**Session Classification:** Plenary 11, Sat 19/6