Session Program

26 August 2024 to 4 September 2024

XIII International Conference on New Frontiers in Physics 26 Aug - 4 Sep 2024, OAC, Kolymbari, Crete, Greece

XIII International Conference on New Frontiers in Physics 2024

High Energy Particle Physics

Orthodox Academy of Crete, Kolymbari, Crete, Greece

Monday 26 August

:00	High Energy Particle Physics Session Location: Room 1 Convener: Prof. Armen Sedrakian
	11:00-11:20 Lepton Flavour Universality tests using semileptonic b-hadron decays Speaker Bogdan Kutsenko
	11:20-11:40 Recent measurement of CP violation and mixing with wrong-sign and right-sign D0 -> Kpi decays Speaker
	Mateusz Kmiec 11:40-12:00 STAR Spin Physics Highlight Speaker Ting Lin
:20	12:00-12:20 Recent spin physics results from PHENIX Speaker Devon Loomis
5:00	High Energy Particle Physics Session Location: Room 1 Convener: Francesco Longo
	16:00-16:25 Exotic searches at ATLAS Speaker Gokhan Unel
:50	16:25-16:50 Heavy-flavour results from ATLAS Speaker Umberto De Sanctis

Tuesday 27 August

11:00-11:20	Recent results from SND@LHC experiment
Speaker	
Valeri Tioukov	
11:20-11:40	Search for long lived particles (CMS)
Speaker	
Daniel Guerrer	0
11:40-12:00)
Prediction	for the Anomalous \$ZZ\gamma\$ and \$Z\gamma\gamma\$ Couplings at
Future Muc	on Collider
Speaker	
Dr Emre Gürka	nlı
12:00-12:20	
	transverse single-spin asymmetries of hadrons within jets from
Azimuthal	transverse single-spin asymmetries of hadrons within jets from {pp}\$ collisions at \$\sqrt{s}\$ = 510 GeV
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Azimuthal t polarized \$	{pp}\$ collisions at \$\sqrt{s}\$ = 510 GeV
Azimuthal t polarized \$ Speaker Mr Yixin Zhang 12:20-12:40	{pp}\$ collisions at \$\sqrt{s}\$ = 510 GeV
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Azimuthal t polarized \$ Speaker Mr Yixin Zhang 12:20-12:40 Precision m the DUNE m Speaker Valerio Pia 12:40-13:00	{pp}\$ collisions at \$\sqrt{s}\$ = 510 GeV heasurements of (anti)neutrinos interactions with the SAND detector hear site
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Speaker

Andrea Falcone

17:00	16:40-17:00 The CUPID neutrinoless double-beta decay experiment Speaker Mathieu Pageot
17:00	High Energy Particle Physics Session Location: Room 1 Convener: Valerio Pia
	17:00-17:20 Measurements of Higgs boson properties (mass, width, and Spin/CP) with the ATLAS detector
	Speaker Mohamed Aly
	17:20-17:40 Measurements of the Higgs boson mass and width Speaker Filippo Errico
	17:40-18:00 Beyond the Standard Model in the Higgs sector Speaker Simon Gabriel Grewe
	18:00-18:20 Higgs Physics at Muon Collider
18:20	Speaker Luca Castelli

Wednesday 28 August

L1:00	High Energy Particle Physics Session Location: Room 1 Convener: Larisa Bravina
	11:00-11:20 Electroweak measurements (CMS) Speaker Cristina-Andreea Alexe
	11:20-11:40 Upgrade of ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC Speaker Beatriz Pereira
	11:40-12:00 Overview of Trigger/DAQ in CMS Speaker Swagata Mukherjee
	12:00-12:20 CMS Upgrades Speaker Rosamaria Venditti
	12:20-12:40 Performance of the CMS Electromagnetic Calorimeter in Run3 Speaker Maria Margherita Obertino
13:00	12:40-13:00 The CMS electromagnetic calorimeter Speaker Rajdeep Mohan Chatterjee
16:00	High Energy Particle Physics Session Location: Room 4 Convener: Maria Margherita Obertino
	16:00-16:20 ATLAS searches for non-minimal and long-lived SUSY scenarios Speakers Risa Ushioda, Risa Ushioda
	16:20-16:40 Tests of LFU and searches for LFV in heavy flavor decays at CMS Speaker Marco Buonsante
	16:40-17:00 Unveiling Neutrinoless Double Beta Decay with the NEXT Detectors: Advances, Achievements, and Future Prospects Speaker
	Helena Almazan 17:00-17:20 Precision measurements of \$\tau\$ lepton decays at Belle\$~\$II

Speaker Arthur THALLER

17:20-17:40

Light readout in DarkSide-20k: from Silicon Photo Multiplier dies to the Photo Detection Units integration in the NOA packaging facility.

Speaker

Lucia Consiglio

17:40-18:00 Semileptonic and missing energy B decays at Belle II

Speaker

Giovanni Gaudino

18:00-18:20

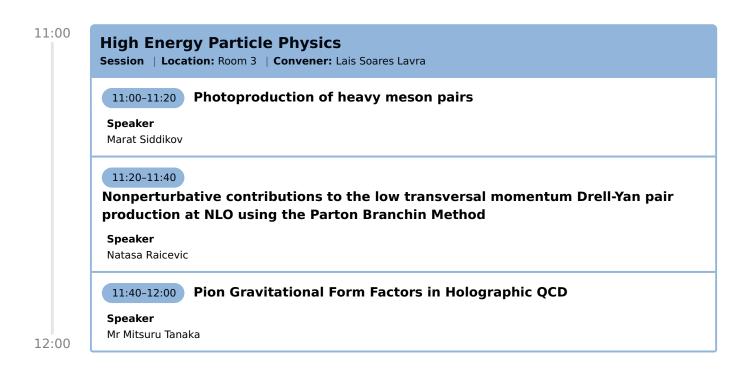
Towards Photon Counting at the ALPS II Experiment: Efficient Background Discrimination for TES-Based Single-Photon Detectors

Speaker

Elmeri Rivasto

18:20

Thursday 29 August



Friday 30 August

Session Loc	
09:00-09:30	LHCb highlights
Speaker Lais Soares La	vra
09:30-10:00	CMS Highlights
Speaker John Strologas	
10:00-10:30	Highlights from pp Collisions at ATLAS
Speaker Stefano Passag	ggio
High Ener	gy Particle Physics
-	ation: Room 1 Convener: Tommaso Dorigo
experiment Speaker	ents of Higgs boson production and decay rates with the ATLAS
Measureme experiment Speaker Eva Guilloton 11:20-11:40 Highlights	
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Measureme experiment Speaker Eva Guilloton 11:20-11:40 Highlights Speaker Jialin Li 11:40-12:00	on top quark physics with the ATLAS experiment at the LHC ches for electroweak supersymmetry with compressed spectra
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Monday 2 September

-	ergy Particle Physics ocation: Room 1 Convener: Dr Luciano Errico
10:00-10:3 Speaker Mr Salil Josh	
-	cation: Room 1 Convener: Konstantin Zhukovsky
11:40-12:0 Electrowe Speaker Stefanie And	ak measurements of multiboson production with the ATLAS experime
12:00-12:2 Recent re Speaker Sara Pucillo	o sults on strangeness enhancement in small collision systems with AL
12:20-12:4 Speaker Giacomo Fee	
12:40-13:0 Observat ATLAS de Speaker Zoe Olivia E	on of quantum entanglement in top-quark pair production with the tector
-	cation: Room 1 Convener: Ting Lin
16:00-16:2 Speaker Rainer Mank	
16:25-16:5 Speaker Simona Pallo	
16:50-17:1 Combined experime	Higgs boson measurements and their interpretations with the ATLA

Tuesday 3 September

11:00-11:20	
Upgrade of	f the CMS Electromagnetic Calorimeter for the High-Luminosity LH
Speaker Giulia Lavizzar	ri da se
11:20-11:40 Searches f	or hidden sectors and lepton flavour violation in kaon decays
Speaker	
Marco Mirra	
11:40-12:00	Searches of exotic decays with NA62 in beam-dump mode
Speaker	
Stefan Alexan	dru Ghinescu
12:00-12:20	
	ce of the ICARUS Trigger System at the Booster and NuMI Neutrin
Beams	
Speaker Riccardo Trioz:	zi
High Ener	rgy Particle Physics
-	rgy Particle Physics ration: Room 3 Convener: Anke Lei
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Session Loc 12:40-13:00 Production	of the glueball-like particle X(2370) in e+e- and pp collisions wit
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Session Loc 12:40-13:00 Production PACIAE mo Speaker Anke Lei High Ener Session Loc	cation: Room 3 Convener: Anke Lei of the glueball-like particle X(2370) in e+e- and pp collisions with del crgy Particle Physics cation: Room 3 Convener: Martina Ressegotti
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Session Loc 12:40-13:00 Production PACIAE mo Speaker Anke Lei High Ener Session Loc 16:00-16:20 Speaker Xilin Liang 16:20-16:40	of the glueball-like particle X(2370) in e+e- and pp collisions with del rgy Particle Physics ration: Room 3 Convener: Martina Ressegotti Overview of the STAR forward spin physics
Session Loc 12:40-13:00 Production PACIAE mo Speaker Anke Lei High Ener Session Loc 16:00-16:20 Speaker Xilin Liang 16:20-16:40	cation: Room 3 Convener: Anke Lei of the glueball-like particle X(2370) in e+e- and pp collisions with del crgy Particle Physics cation: Room 3 Convener: Martina Ressegotti
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16:40-17:00

Study of the e+e- annihilation into hadrons with the SND detector at the VEPP-2000 collider

Speaker

Alexander Botov

17:00-17:20

Exploring coherent elastic neutrino-nucleus scattering with the NUCLEUS experiment

Speakers

Nicole Schermer, Nicole Schermer

17:20

Wednesday 4 September

0	High Energy Particle Physics Session Location: Room 1 Convener: Carla Aramo
	09:00-09:30 ICARUS at the Short-Baseline Neutrino program: first results
0	Speaker Maria Artero Pons
5	High Energy Particle Physics Session Location: Room 1 Convener: Jon Paul Lundquist
	12:15-12:40 Latest Results and Outlook of the Muon g-2 Measurement
	Speaker Esra Barlas Yucel
	12:40-13:00 QCD measurements with ATLAS
	Speaker Dionysios Fakoudis
	High Energy Particle Physics Session Location: Room 1
	14:00-14:25 Recent results from Belle and Belle II
	Speaker Cristing Martallini
	Cristina Martellini