



# XIII International Conference on New Frontiers in Physics 2024

## Monday 26 August 2024

### High Energy Particle Physics - Room 1 (11:00 - 12:20)

-Conveners: Armen Sedrakian

time	[id] title	presenter
11:00	[113] Lepton Flavour Universality tests using semileptonic b-hadron decays	KUTSENKO, Bogdan
11:20	[86] Recent measurement of CP violation and mixing with wrong-sign and right-sign D0 → Kπ decays	KMIEC, Mateusz
11:40	[40] STAR Spin Physics Highlight	LIN, Ting
12:00	[150] Recent spin physics results from PHENIX	LOOMIS, Devon

### High Energy Particle Physics - Room 1 (16:00 - 16:50)

-Conveners: Francesco Longo

time	[id] title	presenter
16:00	[69] Exotic searches at ATLAS	UNEL, Gokhan
16:25	[129] Heavy-flavour results from ATLAS	DE SANCTIS, Umberto

## Tuesday 27 August 2024

### High Energy Particle Physics - Room 2 (11:00 - 13:00)

-Conveners: Tamas Novak; Tamas Novak

time	[id] title	presenter
11:00	[61] Recent results from SND@LHC experiment	TIOUKOV, Valeri
11:20	[170] Search for long lived particles (CMS)	GUERRERO, Daniel
11:40	[135] Prediction for the Anomalous $\gamma\gamma$ and $\gamma$ Couplings at Future Muon Collider	Dr GÜRKANLI, Emre
12:00	[122] Azimuthal transverse single-spin asymmetries of hadrons within jets from polarized $pp$ collisions at $\sqrt{s} = 510$ GeV	Mr ZHANG, Yixin
12:20	[62] Precision measurements of (anti)neutrinos interactions with the SAND detector at the DUNE near site	PIA, Valerio
12:40	[115] The HIBEAM experiment	Dr BURGMAN, John Alexander

### High Energy Particle Physics - Room 2 (16:00 - 17:00)

-Conveners: Valerio Pia

time	[id] title	presenter
16:00	[21] Towards the implementation of the ENUBET neutrino cross section experiment at CERN	Dr GUFFANTI, Daniele
16:20	[42] Results from Cryo-PoF project: power over fiber at cryogenic temperature for fundamental and applied physics.	FALCONE, Andrea
16:40	[100] The CUPID neutrinoless double-beta decay experiment	PAGEOT, Mathieu

### High Energy Particle Physics - Room 1 (17:00 - 18:20)

-Conveners: Valerio Pia

time	[id] title	presenter
17:00	[131] Measurements of Higgs boson properties (mass, width, and Spin/CP) with the ATLAS detector	ALY, Mohamed
17:20	[153] Measurements of the Higgs boson mass and width	ERRICO, Filippo
17:40	[126] Beyond the Standard Model in the Higgs sector	GREWE, Simon Gabriel
18:00	[138] Higgs Physics at Muon Collider	CASTELLI, Luca

# Wednesday 28 August 2024

## High Energy Particle Physics - Room 1 (11:00 - 13:00)

-Conveners: Larisa Bravina

time	[id] title	presenter
11:00	[183] Electroweak measurements (CMS)	ALEXE, Cristina-Andreea
11:20	[181] Upgrade of ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC	PEREIRA, Beatriz
11:40	[163] Overview of Trigger/DAQ in CMS	MUKHERJEE, Swagata
12:00	[155] CMS Upgrades	VENDITTI, Rosamaria
12:20	[16] Performance of the CMS Electromagnetic Calorimeter in Run3	OBERTINO, Maria Margherita
12:40	[191] The CMS electromagnetic calorimeter	CHATTERJEE, Rajdeep Mohan

## High Energy Particle Physics - Room 4 (16:00 - 18:20)

-Conveners: Maria Margherita Obertino

time	[id] title	presenter
16:00	[125] ATLAS searches for non-minimal and long-lived SUSY scenarios	USHIODA, Risa USHIODA, Risa
16:20	[154] Tests of LFU and searches for LFV in heavy flavor decays at CMS	BUONSANTE, Marco
16:40	[56] Unveiling Neutrinoless Double Beta Decay with the NEXT Detectors: Advances, Achievements, and Future Prospects	ALMAZAN, Helena
17:00	[118] Precision measurements of $\tau$ lepton decays at Belle II	THALLER, Arthur
17:20	[43] Light readout in DarkSide-20k: from Silicon Photo Multiplier dies to the Photo Detection Units integration in the NOA packaging facility.	CONSIGLIO, Lucia
17:40	[73] Semileptonic and missing energy B decays at Belle II	GAUDINO, Giovanni
18:00	[111] Towards Photon Counting at the ALPS II Experiment: Efficient Background Discrimination for TES-Based Single-Photon Detectors	RIVASTO, Elmeri

# Thursday 29 August 2024

## High Energy Particle Physics - Room 3 (11:00 - 12:00)

-Conveners: Lais Soares Lavra

time	[id] title	presenter
11:00	[57] Photoproduction of heavy meson pairs	SIDDIKOV, Marat
11:20	[22] Nonperturbative contributions to the low transversal momentum Drell-Yan pair production at NLO using the Parton Branchin Method	RAICEVIC, Natasa
11:40	[213] Pion Gravitational Form Factors in Holographic QCD	Mr TANAKA, Mitsuru

# Friday 30 August 2024

## High Energy Particle Physics - Room 1 (09:00 - 10:30)

-Conveners: Trambak Bhattacharyya

time	[id] title	presenter
09:00	[97] LHCb highlights	SOARES LAVRA, Lais
09:30	[203] CMS Highlights	STROLOGAS, John
10:00	[46] Highlights from pp Collisions at ATLAS	PASSAGGIO, Stefano

## High Energy Particle Physics - Room 1 (11:00 - 12:40)

-Conveners: Tommaso Dorigo

time	[id] title	presenter
11:00	[130] Measurements of Higgs boson production and decay rates with the ATLAS experiment	GUILLOTON, Eva
11:20	[67] Highlights on top quark physics with the ATLAS experiment at the LHC	LI, Jialin
11:40	[124] ATLAS searches for electroweak supersymmetry with compressed spectra	RASHEED, Hammad
12:00	[175] Performance of the CMS Tracker during LHC Run 3	PRAMOD, Lakshmi
12:20	[84] Progress of the Super Tau Charm Facility	XU, Lailin

## Monday 2 September 2024

### High Energy Particle Physics - Room 1 (10:00 - 10:30)

-Conveners: Luciano Errico

time	[id] title	presenter
10:00	[101] Multi-quark states at LHCb	Mr JOSHI, Salil

### High Energy Particle Physics - Room 1 (11:40 - 13:00)

-Conveners: Konstantin Zhukovsky

time	[id] title	presenter
11:40	[128] Electroweak measurements of multiboson production with the ATLAS experiment	GOTZ, Stefanie Andrea
12:00	[59] Recent results on strangeness enhancement in small collision systems with ALICE	PUCILLO, Sara
12:20	[182] B physics, rare decays (CMS)	FEDI, Giacomo
12:40	[68] Observation of quantum entanglement in top-quark pair production with the ATLAS detector	EARNSHAW, Zoe Olivia

### High Energy Particle Physics - Room 1 (16:00 - 17:15)

-Conveners: Ting Lin

time	[id] title	presenter
16:00	[178] Search for Higgs boson production through resonance decays (CMS)	MANKEL, Rainer
16:25	[156] Di-Higgs (CMS)	PALLUOTTO, Simona
16:50	[127] Combined Higgs boson measurements and their interpretations with the ATLAS experiment	ZHU, Yifan

## Tuesday 3 September 2024

### High Energy Particle Physics - Room 1 (11:00 - 12:20)

-Conveners: Stefano Passaggio

time	[id] title	presenter
11:00	[15] Upgrade of the CMS Electromagnetic Calorimeter for the High-Luminosity LHC	LAVIZZARI, Giulia
11:20	[104] Searches for hidden sectors and lepton flavour violation in kaon decays	MIRRA, Marco
11:40	[103] Searches of exotic decays with NA62 in beam-dump mode	GHINESCU, Stefan Alexandru
12:00	[35] Performance of the ICARUS Trigger System at the Booster and NuMI Neutrino Beams	TRIOZZI, Riccardo

### High Energy Particle Physics - Room 3 (12:40 - 13:00)

-Conveners: Anke Lei

time	[id] title	presenter
12:40	[231] Production of the glueball-like particle X(2370) in e+e- and pp collisions with PACIAE model	LEI, Anke

### High Energy Particle Physics - Room 3 (16:00 - 17:20)

-Conveners: Martina Ressegotti

time	[id] title	presenter
16:00	[92] Overview of the STAR forward spin physics	LIANG, Xilin
16:20	[81] The BDF/SHiP experiment at the ECN3 high-intensity beam facility at the CERN SPS	GULIAEVA, Vasilisa
16:40	[36] Study of the e+e- annihilation into hadrons with the SND detector at the VEPP-2000 collider	BOTOV, Alexander
17:00	[205] Exploring coherent elastic neutrino-nucleus scattering with the NUCLEUS experiment	SCHERMER, Nicole SCHERMER, Nicole



## Wednesday 4 September 2024

### High Energy Particle Physics - Room 1 (09:00 - 09:30)

-Conveners: Carla Aramo

time	[id] title	presenter
09:00	[18] ICARUS at the Short-Baseline Neutrino program: first results	ARTERO PONS, Maria

### High Energy Particle Physics - Room 1 (12:15 - 13:00)

-Conveners: Jon Paul Lundquist

time	[id] title	presenter
12:15	[140] Latest Results and Outlook of the Muon g-2 Measurement	BARLAS YUCEL, Esra
12:40	[134] QCD measurements with ATLAS	FAKOUDIS, Dionysios

### High Energy Particle Physics - Room 1 (14:00 - 14:25)

time	[id] title	presenter
14:00	[87] Recent results from Belle and Belle II	MARTELLINI, Cristina