

XII International Conference on New Frontiers in Physics

Tuesday, July 11, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:30 AM)

time	[id] title	presenter
9:30 AM	[128] Recent results of SUSY searches at CMS	PEREZ ADAN, Danyer
10:00 AM	[7] Status and perspectives for ATLAS HL-LHC Upgrade Program	GRINSTEIN, Sebastian

High Energy Particle Physics - Room 1 (11:00 AM - 12:15 PM)

time	[id] title	presenter
11:00 AM	[33] Searches for BSM resonances in ATLAS	VERDUCCI, Monica
11:25 AM	[41] Recent searches for new phenomena with the ATLAS detector	RODRIGUEZ VERA, Ana Maria
11:50 AM	[40] Searches for strong production of supersymmetric particles	ANTIPOV, Egor

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

time	[id] title	presenter
12:40 PM	[71] Latest results on $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay and precision measurements with Kaons at NA62	MASSAROTTI, Paolo

High Energy Particle Physics - Room 1 (4:00 PM - 5:00 PM)

time	[id] title	presenter
4:00 PM	[29] AtlFast3, the ATLAS fast simulation tool in Run3	ZHANG, Rui
4:20 PM	[53] Measurements of processes sensitive to quartic electroweak couplings in ATLAS	SOLOMON, Shalu
4:40 PM	[17] Overview of the ATLAS High-Granularity Timing Detector: project status and results	RIDOUANI, Selaiman

High Energy Particle Physics - Room 2 (5:00 PM - 5:40 PM)

time	[id] title	presenter
5:00 PM	[134] Alpha decay of naturally occurring neodymium isotopes	Mr SOKUR, Nazar
5:20 PM	[103] Status Report of μ Net (mnet) Project.	XIROS, Leonidas

High Energy Particle Physics - Room 1 (5:20 PM - 5:40 PM)

time	[id] title	presenter
5:20 PM	[100] Spectroscopic study of heavy-light baryons in relativistic flux tube model	JAKHAD, Pooja

Wednesday, July 12, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:00 AM)

time	[id] title	presenter
9:30 AM	[119] CMS searches for exotic signatures	TZIAFERI, Eirini

High Energy Particle Physics - Room 1 (11:00 AM - 11:50 AM)

time	[id] title	presenter
11:00 AM	[132] CMS Top	BECERRIL GONZALEZ, Hugo Alberto
11:25 AM	[121] Laser spectroscopy of antiprotonic helium atoms embedded in superfluid helium	HORI, Masaki

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

time	[id] title	presenter
12:15 PM	[10] Recent results from the DANSS experiment	Prof. DANILOV, Mikhail
12:40 PM	[125] Heavy flavor tagging at the CMS experiment	ZAZA, Angela

High Energy Particle Physics - Room 2 (4:40 PM - 6:10 PM)

time	[id] title	presenter
4:40 PM	[3] Latest results from the CUORE experiment	BERETTA, Mattia
5:00 PM	[84] Latest results and outlook of the KM3NeT neutrino telescope	ROMANOV, Andrey Mr ROMANOV, Andrey
5:40 PM	[65] Study of the processes of electron-positron annihilation to hadron states with SND at VEPP-2000 collider	SHTOL, Dmitry

High Energy Particle Physics - Room 1 (5:00 PM - 6:00 PM)

time	[id] title	presenter
5:00 PM	[150] Probing a MeV-scale Scalar Boson and a TeV-Scale Vector-like Quark in the $U(1)_{T3R}$ BSM Extension from gg Fusion, qq Fusion at the LHC using Machine Learning	SOHAIL QURESHI, Umar
5:20 PM	[153] Advanced Kaonic Atom Measurements at the DAΦNE Collider: The SIDDHARTA-2 Experiment and Beyond	DE PAOLIS, Luca
5:40 PM	[135] CMS: Machine Learning	TRAPOTE FERNANDEZ, Andrea

Thursday, July 13, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:30 AM)

time	[id] title	presenter
9:30 AM	[63] Quark mass generation due to scalar fields with zero dimension	Prof. ZUBKOV, Mikhail ЗУБКОВ, Михаил
10:00 AM	[57] A new perspective on the flavor problem	Prof. MELONI, Davide

High Energy Particle Physics - Room 1 (11:00 AM - 11:50 AM)

time	[id] title	presenter
11:00 AM	[48] Recent highlights of top-quark cross section and properties measurements with the ATLAS detector at the LHC	REIDELSTURZ, Joshua Aaron
11:25 AM	[110] Electron Mass Renormalization and QED Trace Anomaly	Prof. EIDES, Michael

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

time	[id] title	presenter
12:40 PM	[62] Active Learning application in a dark matter search with ATLAS PanDA and iDDS	ZHANG, Rui

High Energy Particle Physics - Room 1 (4:40 PM - 5:20 PM)

time	[id] title	presenter
4:40 PM	[133] CMS Trigger	DONATO, Silvio
5:00 PM	[4] ATLAS LAr Calorimeter Commissioning for LHC Run-3	GAVRILIUК, Alexander

Friday, July 14, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:30 AM)

time	[id] title	presenter
9:30 AM	[38] Measurements of Higgs boson properties (mass, width, and Spin/CP) with the ATLAS detector	LEONE, Sandra
10:00 AM	[130] CMS Higgs overview	CONSUEGRA RODRIGUEZ, Sandra

High Energy Particle Physics - Room 1 (11:00 AM - 11:25 AM)

time	[id] title	presenter
11:00 AM	[34] Searching for new symmetries in the Higgs sector at ATLAS	BANSAL, Shubham

High Energy Particle Physics - Room 1 (11:50 AM - 12:15 PM)

time	[id] title	presenter
11:50 AM	[35] Probing the nature of electroweak symmetry breaking with Higgs boson pairs in ATLAS	BATTULGA, Daariimaa

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

time	[id] title	presenter
12:40 PM	[82] MicroBooNE results on Short Baseline Neutrino Anomalies	BRUNETTI, Maria Brigida

Monday, July 17, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:00 AM)

time	[id] title	presenter
9:30 AM	[36] Searches for Dark Matter with the ATLAS Experiment at the LHC	HONG, Tae Min

High Energy Particle Physics - Room 1 (11:00 AM - 1:00 PM)

time	[id] title	presenter
11:00 AM	[118] Performance studies of green Resistive Plate Chamber detectors at the CERN Gamma Irradiation Facility	RAMOS LOPEZ, Dayron
11:25 AM	[37] Measurements of Higgs boson production and decay rates and their interpretation with the ATLAS experiment	REIKHER, David
11:50 AM	[31] Improving ATLAS Hadronic Object Performance with ML/AI Algorithms	CIROTTA, Francesco
12:15 PM	[51] Precision measurements of jet and photon production at ATLAS	VILLAPLANA, Miguel
12:40 PM	[104] The Scientific Program of the PADME experiment	LONG, Elizabeth Sarah

High Energy Particle Physics - Room 3 (4:00 PM - 5:00 PM)

time	[id] title	presenter
4:00 PM	[106] Quantum corrections to binding energies of BPS vortices	WEIGEL, Herbert
4:20 PM	[97] Feynman Diagram Complexity in the High Energy Limit	Dr CHACHAMIS, Grigorios

High Energy Particle Physics - Room 2 (4:00 PM - 4:40 PM)

time	[id] title	presenter
4:00 PM	[87] ENUBET at CERN: towards the implementation of a neutrino cross section experiment with a monitored neutrino beam	MCELWEE, Jordan Michael
4:20 PM	[6] Machine Learning for Real-Time Processing of ATLAS Liquid Argon Calorimeter Signals with FPGAs	SUR, Nairit

High Energy Particle Physics - Room 1 (4:40 PM - 5:00 PM)

time	[id] title	presenter
4:40 PM	[70] PHENIX Spin Measurements, from pp to pA.	ALEXANDER, Bazilevsky

High Energy Particle Physics - Room 1 (5:00 PM - 5:20 PM)

time	[id] title	presenter
5:00 PM	[47] Recent results on associated top quark production and searches for new top-quark phenomena with the ATLAS detector	GHOSAL, Arpan

High Energy Particle Physics - Room 1 (5:20 PM - 5:40 PM)

time	[id] title	presenter
5:20 PM	[44] New results on $\bar{t}W$ and 4-top production with the ATLAS experiment	MOSKVITINA, Polina

Tuesday, July 18, 2023

High Energy Particle Physics - Room 1 (11:00 AM - 1:00 PM)

time	[id] title	presenter
11:00 AM	[127] Performance of the CMS Tracker in Run 3	Dr MUSICH, Marco
11:25 AM	[18] The ATLAS experiment Phase-I upgrades for the LHC Run-3	LUCI, Claudio
11:50 AM	[89] CMS Muon System	VAI, Ilaria
12:15 PM	[90] Precision Timing at High-Luminosity LHC with the CMS MIP Timing Detector	MOON, Chang-Seong
12:40 PM	[23] Latest results on luminosity measurements from the CMS experiment	VALENCIA PALOMO, Lizardo

High Energy Particle Physics - Room 1 (4:40 PM - 5:00 PM)

time	[id] title	presenter
4:40 PM	[126] CMS Dark Matter searches	FERNANDEZ MANTECA, Pedro

High Energy Particle Physics - Room 2 (5:00 PM - 5:25 PM)

time	[id] title	presenter
5:00 PM	[79] Nambu-Goldstone bosons in particle physics and cosmology	POKORSKI, Stefan

High Energy Particle Physics - Room 1 (5:20 PM - 5:40 PM)

time	[id] title	presenter
5:20 PM	[136] The REDTOP experiment: a e^+e^- factory to explore dark matter and physics beyond the Standard Model	GATTO, Corrado

Wednesday, July 19, 2023

High Energy Particle Physics - Room 1 (4:00 PM - 4:20 PM)

time	[id] title	presenter
4:00 PM	[21] The T2K upgrade	KUDENKO, Yury

Thursday, July 20, 2023

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

time	[id] title	presenter
10:00 AM	[50] Highlights from Standard Model precision measurements in ATLAS	WANG, Chen

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

time	[id] title	presenter
11:00 AM	[32] Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector	TORRO PASTOR, Emma
11:25 AM	[39] Searches for electroweak production of supersymmetric particles with the ATLAS detector	CAI, Yuchen
11:50 AM	[116] CMS B-physics results	SWAIN, Sanjay Kumar
12:15 PM	[122] The Muon Detector of the LHCb experiment at Upgrade II	PASTORE, Alessandra

High Energy Particle Physics - Room 1 (4:00 PM - 5:00 PM)

time	[id] title	presenter
4:00 PM	[112] Performance studies of Micromegas detectors in ATLAS with Run3 data	MASSAROTTI, Paolo
4:20 PM	[139] Performances of the Small-strip Thin Gap Chambers in the New Small Wheels of ATLAS	KABANA, Sonia
4:40 PM	[30] Redefining Performance: New Techniques for ATLAS Jet & MET Calibration	VETTERLI, Michel

Friday, July 21, 2023

High Energy Particle Physics - Room 1 (9:30 AM - 10:30 AM)

time	[id] title	presenter
9:30 AM	[15] Unpolarized parton density functions in QED	Prof. ARBUZOV, Andrey
10:00 AM	[152] Analysis of particle Pt-spectra in model-generated heavy-ion collisions using Tsallis statistics	ZABRODIN, Evgeny

High Energy Particle Physics - Room 1 (11:00 AM - 11:50 AM)

time	[id] title	presenter
11:00 AM	[113] Thermodynamic Potential of the Polyakov Loop in SU(3) Quenched Lattice QCD	Prof. SUGANUMA, Hideo □□, □□
11:25 AM	[144] Thermal vorticity and hyperon polarisation in heavy ion collisions at intermideate energies	BRAVINA, Larisa

High Energy Particle Physics - Room 1 (11:50 AM - 1:00 PM)

time	[id] title	presenter
11:50 AM	[124] Operation and Performance of the CMS Electromagnetic Calorimeter in Run2 and beyond	JAIN, Shilpi
12:15 PM	[56] Study of 2β decays of ^{150}Nd .	Prof. CARACCILOLO, Vincenzo
12:40 PM	[55] Developments, features and perspectives of crystal scintillators of the Cs ₂ MCl ₆ family (M = Hf or Zr) to search for rare processes.	LEONCINI, Alice

High Energy Particle Physics - Room 1 (4:00 PM - 4:50 PM)

time	[id] title	presenter
4:00 PM	[165] Light-nuclei production in heavy-ion collisions at the energy range of $\sqrt{s_{NN}} = 3 - 19.6$ GeV in generator THESEUS based on 3-fluid dynamical model	KOZHEVNIKOVA, Marina
4:25 PM	[78] Measurement of Direct-Photon Cross Section and Double-Helicity Asymmetry at $\sqrt{s} = 510$ GeV in $p+p$ Collisions at PHENIX	Dr JI, ZHONGLING