

Annual Meeting of the Swiss Physical Society 2022

Monday, June 27, 2022

Nuclear, Particle- & Astrophysics: I: Astroparticle Physics - Room G 140 (5:15 PM - 7:15 PM)

time	[id] title	presenter
5:15 PM	[107] □301□The future space-borne High Energy cosmic-Radiation Detection facility	FRIEDEN, Jennifer Maria
5:30 PM	[51] □302□Helium Flux Measurement with the DAMPE Detector using Machine Learning Techniques	RUINA, Arshia
5:45 PM	[174] □303□Very-high-energy emission from gamma-ray bursts detected by MAGIC	FUKAMI, Satoshi
6:00 PM	[169] □304□What can variability of quasar microlensing light curve can tell us about its structure ?	PAIC, Eric Gérard Guy
6:15 PM	[2] □305□Dark Matter Effective Field Theory and an Application to Vector Dark Matter	AEBISCHER, Jason
6:30 PM	[91] □306□Dark matter direct detection with the XENONnT experiment	VOLTA, Giovanni
6:45 PM	[167] □307□The DARWIN observatory for dark matter and neutrino physics	GALLOWAY, Michelle
7:00 PM	[89] □308□Xenoscope - a full-scale vertical demonstrator for the DARWIN observatory	Mr BISMARCK, Alexander

Tuesday, June 28, 2022

Nuclear, Particle- & Astrophysics: II: Flavour Anomalies - Room G 140 (2:00 PM - 4:30 PM)

time	[id] title	presenter
2:00 PM	[118] □315□ Search for the lepton flavour violating $B_0 \rightarrow e\pm\mu$ and $B_0 \rightarrow e\pm\mu$ decays with LHCb Run 2 data	SCHULTE, Sebastian
2:15 PM	[86] □312□ QED corrections in $\bar{B}^0 \rightarrow \bar{K}^0 \ell \ell$: comparing PHOTOS to a Monte Carlo based on a fully differential NLO computation.	LANCIERINI, Davide
2:30 PM	[73] □313□ Update on the angular analysis of $B^0 \rightarrow K^* e^+ e^-$ decays at LHCb	WANG, Zhenzi
2:45 PM	[130] □314□ Machine Learning Techniques for selecting Forward Electrons $(2.5 < \eta < 3.2)$ with the ATLAS High Level Trigger	SCHEFER, Meinrad Moritz
3:00 PM	[42] □311□ Lepton Flavour universality test in $b \rightarrow s \ell \ell$ decays at LHCb	CELANI, Sara
3:15 PM	[33] □316□ Mu3e looking for rare muon decays	DEMETS, Yannick
3:30 PM	[209] □317□ Precision timing in the Mu3e experiment towards the search for the muon decay to three electrons	DEMETS, Yannick
3:45 PM	[99] □318□ Studies of semileptonic charged-current decays of b-hadrons	MATHAD, Abhijit
4:00 PM	[103] □319□ Searching for single third generation Leptoquarks with $b\bar{b} + \tau\tau$ final state using the ATLAS detector	MUELLER, Roman
4:15 PM	[105] □320□ The PIONEER precision pion decay experiment	GOELDI, Damian

Nuclear, Particle- & Astrophysics: III: Neutrinos: SM and BSM - Room G 140 (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[11] □321□ The LEGEND experiment to search for neutrinoless double beta decay	Dr CHIU, Pin-Jung
5:15 PM	[106] □322□ Search for long-lived heavy neutral leptons in leptonic final states with displaced vertices at the CMS experiment	MASCELLANI, Anna
5:30 PM	[58] □323□ Inclusive search for HNLs at LHCb with Run 2 data	CHOLAK, Serhii
5:45 PM	[55] □324□ Search for long-lived Heavy Neutral Leptons in B-meson decays	LYON, Anne-Mazarine
6:00 PM	[50] □325□ Neutrino physics at the LHC	GRAVERINI, Elena
6:15 PM	[49] □326□ The SND@LHC detector	ZAFFARONI, Ettore
6:30 PM	[110] □327□ ArCLight: Development of a novel light detector for modular liquid Argon detectors	GAUCH, Anja
6:45 PM	[189] □328□ First light detection with an Optical TPC	Mr AMARINEI, Robert Mihai

Wednesday, June 29, 2022

Nuclear, Particle- & Astrophysics: IV: New Physics Searches - Room G 140 (2:30 PM - 4:30 PM)

time	[id] title	presenter
2:30 PM	[243] □331□Precision measurement of neutral charm meson mixing parameters at LHCb	PIETRZYK, Guillaume Max
3:15 PM	[9] □333□Search for Supersymmetry with tbMET final states using full ATLAS Run2 data	CHATTERJEE, Meghrajana
3:30 PM	[54] □334□Searching for R-Parity Violating Supersymmetry with the ATLAS Detector	HALSER, Lea
3:45 PM	[74] □335□B-jet tagging with fast tracking at the ATLAS trigger	FRANCHELLUCCI, Stefano
4:00 PM	[184] □336□Search for CP violation in ttH and tH production in multilepton channels	LIECHTI, Sascha Pascal
4:15 PM	[64] □337□First test run results at the NA64 μ experiment at CERN	BANTO OBERHAUSER, Benjamin

Nuclear, Particle- & Astrophysics: V: Precision Measurements - Room G 140 (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[31] □341□Positronium 1S-2S and 2S-2P precision spectroscopy	Mr DE SOUSA BORGES, Lucas
5:15 PM	[47] □342□LEMING: A gravity experiment with muonium atoms	ZHANG, Jesse
5:30 PM	[44] □343□Muonic atom spectroscopy with radioactive targets	VOGIATZI, Stergiani Marina
5:45 PM	[79] □344□Measurement of multiple scattering of positrons for the Muon Electric Dipole Moment Experiment	Mr HUME, Timothy
6:00 PM	[82] □345□The LHCb magnetic field map	BACHMAYER, Marie
6:15 PM	[71] □346□3D real-time monitoring of the LHCb SciFi tracker using BCAMs	VIEITES DIAZ, Maria
6:30 PM	[72] □347□Model-independent measurement of charm-mixing parameters in $D^0 \rightarrow K^0_S \pi^+ \pi^-$	EK-IN, Surapat
6:45 PM	[75] □348□ Λ_c^+ polarization measurement with the LHCb detector at the LHC	NIEL, Elisabeth Maria

Thursday, June 30, 2022

Nuclear, Particle- & Astrophysics: VI: Detectors and Performance - Room G 140 (2:15 PM - 4:15 PM)

time	[id] title	presenter
2:15 PM	[176] □351□Next generation silicon pixel sensors: towards picosecond timing	MUENKER, Magdalena
2:45 PM	[6] □352□The 100 μ PET project: Pioneering ultra-high-resolution molecular imaging	SAIDI, Jihad
3:00 PM	[66] □353□FCC-ee vertex detector requirements and performance simulation	ILG, Armin
3:15 PM	[5] □354□The W-Si high precision pre-shower detector of the FASER experiment at the LHC	MORETTI, Theo
3:30 PM	[77] □355□Irradiation of ATLAS ITk Pixel Data Transmission Components at the Bern Cyclotron	O'NEILL, Aaron Paul
3:45 PM	[76] □356□The Optosystem: Performance of the electrical-to-optical data conversion system for the ATLAS Itk Pixel upgrade	Mr DAL SANTO, Daniele

Nuclear, Particle- & Astrophysics: VI: Detectors and Performance - Room G 140 (4:45 PM - 5:45 PM)

time	[id] title	presenter
4:45 PM	[87] □357□Event reconstruction at 30 MHz - the LHCb experience	DE CIAN, Michel
5:00 PM	[152] □358□The PLUME luminosity monitor for LHCb	VAN DIJK, Maarten
5:15 PM	[28] □359□Deep Learning Measurement of Non-Fiducial Electrons Cosmic Rays Using on the DAMPE Experiment.	PUTTI-GARCIA, Enzo
5:30 PM	[136] □360□Development of a Penetrating particle ANalyzer (PAN) demonstrator and the results from beam tests	IIZAWA, Tomoya