

Joint Annual Meeting of ÖPG and SPS 2021

Tuesday, August 31, 2021

Nuclear, Particle- & Astrophysics: I: Flavour Anomalies - Room B (1:30 PM - 4:00 PM)

time	[id] title	presenter
1:30 PM	[M21] [301] Flavour anomalies in $b \rightarrow sll$ meson decays: a review	GRAVERINI, Elena
1:45 PM	[M20] [302] Lepton flavour universality tests in charged-current b-quark decays	BUONAURA, Annarita
2:00 PM	[M30] [303] Discovering Lepton Flavour Universality Violating New Physics	CRIVELLIN, Andreas
2:15 PM	[M93] [304] On R_{K^*} and the global significance of new physics in $b \rightarrow s \ell \ell$ decays	LANCIERINI, Davide
2:30 PM	[M75] [305] A new approach in the search for New Physics in $b \rightarrow sl+l-$ decays	ATZENI, Michele
2:45 PM	[M81] [306] Angular analysis of $B^0 \rightarrow K^{*0} e^+ e^-$ decays at LHCb	WANG, Zhenzi
3:00 PM	[M77] [307] Test of lepton flavour universality in $B^+ \rightarrow K^+ l^+ l^-$ decays in high dilepton invariant mass squared region	Mr DENYSENKO, Vadym
3:15 PM	[M45] [308] Search for New Physics in baryons decay at LHCb	FERRILLO, Martina
3:30 PM	[M42] [309] Search for Lepton Flavour Universality Violation at CMS	RITI, Federica
3:45 PM	[M00] [310] Highlights from CP-violation in B-decays and Lepton Flavour violation measurements with the ATLAS experiment	KNERINGER, Emmerich

Nuclear, Particle- & Astrophysics: II: High Energy Physics I - Room B (4:30 PM - 7:00 PM)

time	[id] title	presenter
4:30 PM	[M4] [311] Combined Constraints on First Generation Leptoquarks	SCHNELL, Luc
4:45 PM	[M68] [312] Global Analysis of Leptophilic Z' Bosons	KIRK, Fiona
5:00 PM	[M15] [313] QCD Constraints on the Hadronic Light-by-Light Contribution to the Muon $g - 2$	LÜDTKE, Jan
5:15 PM	[M33] [314] Holographic QCD and the anomalous magnetic moment of the muon	LEUTGEB, Josef
5:30 PM	[M51] [329] A relevant correction for direct measurement of electron's g-factor	KOCH, Benjamin
5:45 PM	[M03] [315] Study of a very rare decay with multiple leptons in the final state at the LHCb experiment	BOUCHIBA, Sonia Amina
6:00 PM	[M] [316] Measuring the decay $B^+ \rightarrow \rho^0 \mu^+ \nu_{\mu}$ at LHCb	KIRSEBOM, Veronica Soelund
6:15 PM	[M5] [317] Amplitude analysis of $B \rightarrow K \pi \pi \gamma$ decays at LHCb	BACHMAYER, Marie
6:30 PM	[M93] [318] Measuring $\mathcal{B}(B^0 \rightarrow K^{*0} \tau^+ \tau^-)$ via the double-loop process $B^0 \rightarrow K^{*0} \tau^+ \tau^- (\rightarrow \mu^+ \mu^-)$	ANDERSSON, Martin
6:45 PM	[M04] [319] On the difference between the FOPT and CIPT approach for the hadronic tau decay rate	REGNER, Christoph

Wednesday, September 1, 2021

Nuclear, Particle- & Astrophysics: V: Astroparticles I - Room D (2:00 PM - 4:30 PM)

time	[id] title	presenter
2:00 PM	FAKT - TASK Award talks	
3:15 PM	[M29] [341] DARWIN - a next-generation observatory for dark matter and neutrino physics	BAUDIS, Laura
3:45 PM	[M6] [342] The upgraded low-background germanium counting facility Gator for high-sensitivity γ -ray spectrometry	Mr BISMARCK, Alexander
4:00 PM	[M0] [343] POLAR-2: Towards a Large Scale Gamma-ray Polarimetry	HULSMAN, Johannes
4:15 PM	[M1] [344] Invisible Nucleon Decays in the XENON1T experiment	VOLTA, Giovanni

Nuclear, Particle- & Astrophysics: III: High Energy II and Flavor Physics - Room B (2:00 PM - 4:30 PM)

time	[id] title	presenter
2:00 PM	[M12] [321] Large charge, semiclassicals and superfluids	Dr CUOMO, Gabriel Francisco
2:30 PM	[M13] [322] Glueballs and Gauge / Gravity Duality	BRÜNNER, Frederic
2:53 PM	[M14] [323] Measurement of the prompt χ_{c1} and χ_{c2} polarizations at CMS	MADLENER, Thomas
3:15 PM	[M3] [324] Measurement of the Branching Fraction and Kinematic Variables of $B^0 \rightarrow D^{*-} l^+ \nu_l$ using the Belle II data	DORNER, Daniel
3:30 PM	[M5] [325] Measurement of the Cabibbo-Kobayashi-Maskawa matrix element $ V_{cb} $ using the decay $B^- \rightarrow D^0 l^- \nu_l$ at Belle II	HORAK, Philipp
3:45 PM	[M8] [326] Measurement of q^2 moments in inclusive $B \rightarrow X c l \nu$ decays and determination of the Cabibbo-Kobayashi- Maskawa matrix element V_{cb} at Belle II	MRVAR, Manca
4:00 PM	[M0] [327] Measurement of the VH production mode in the $H \rightarrow b\bar{b}$ decay channel in proton-proton collision data at $\sqrt{s} = 13$ TeV	REISSEL, Christina
4:15 PM	[M24] [328] Identifying the Higgs boson production in the $t\bar{t}(b\bar{b})$ channel using quantum classifiers	BELIS, Vasileios

Nuclear, Particle- & Astrophysics: IV: Accelerator - Room B (5:00 PM - 7:15 PM)

time	[id] title	presenter
5:00 PM	[M38] [331] High-Field Magnet Development for Accelerators in CHART MagDev	AUCHMANN, Bernhard
5:15 PM	[M71] [332] High Temperature Superconducting Undulator Development at PSI/CHART	LIANG, Xiaoyang
5:30 PM	[M15] [333] Developing a new collaborative software framework for FCC-ee simulations	CARLIER, Felix Simon
5:45 PM	[M83] [334] Precision Luminosity Measurement at the LHC	WANCZYK, Joanna
6:00 PM	[M70] [335] Ion Laser InterAction Mass Spectrometry – providing utmost isotope abundance sensitivity	Dr MARTSCHINI, Martin

6:15 P	M086] □336	Relative Formation Probabilities for Fluoride and Oxyfluoride Anions Containing U, Np, Pu and Am in Accelerator Mass Spectrometry Measurements at VERA	WIEDERIN, Andreas
6:30 P	M088] □337	Increasing the ionization yield for the detection of ²³⁶ U and ²³³ U by AMS	KERN, Michael
6:45 P	M092] □338	Determination of ¹³⁵ Cs and ¹³⁷ Cs by Accelerator Mass Spectrometry	WIESER, Alexander
7:00 P	M084] □339	AMS of ⁹⁰ Sr at the sub-fg-level using laser photodetachment at VERA	MARCHHART, Oscar

Nuclear, Particle- & Astrophysics: VI: Astroparticles II - Room D (5:00 PM - 6:45 PM)

time	[id]	title	presenter
5:00 P	M08] □351	LEGEND - The Large Enriched Germanium Experiment for Neutrinoless Double Beta Decay	MÜLLER, Yannick
5:15 P	M156] □352	Cosmic ray Sub-Iron and Nickel nuclei fluxes measurement from AMS-02 data	ROBYN, Erwan
5:30 P	M166] □353	The XENONnT detector and physics programme	Mr PERES, Ricardo
5:45 P	M103] □354	Cosmic-ray propagation under consideration of spatially resolved source distributions	Ms THALER, Julia
6:00 P	M115] □355	Search for astrophysical sources of neutrinos with IceCube	LUCARELLI, Francesco
6:15 P	M196] □356	UHECR Acceleration in FR-0 Jetted Active Galaxies	Dr MERTEN, Lukas
6:30 P	M14] □357	Multi-messenger characterization of Mrk501 during historically low X-ray and gamma-ray activity	HECKMANN, Lea Alina

Thursday, September 2, 2021

Nuclear, Particle- & Astrophysics: IX: Detector - Room D (2:30 PM - 4:30 PM)

time	[id] title	presenter
2:30 PM	[M44] □381□Completing the data transmission chain for the HL-LHC ATLAS ITk Pixel detector	HARTE, Thierry Guillaume
2:45 PM	[M47] □382□Silicon strip sensors for the CMS Tracker Phase-2 Upgrade	DAMANAKIS, Konstantinos
3:00 PM	[M51] □383□Silicon sensor development for the High Granularity Calorimeter of the CMS experiment at CERN	BABELUK, Maximilian
3:15 PM	[M67] □384□The upgrade of the CMS Electromagnetic Calorimeter for the High-Luminosity LHC	MARCHESE, Luigi
3:30 PM	[M36] □385□Micro-lens enhanced silicon photomultiplier arrays for the LHCb SciFi Tracker	TRIPPL, Carina
3:45 PM	[M73] □386□The SND@LHC data acquisition system	ZAFFARONI, Ettore
4:00 PM	[M98] □387□Powering the opto-electrical conversion system for the data transmission of the ATLAS Inner Tracker detector at the HL-LHC	KUNZMANN, Jan Andreas
4:15 PM	[M67] □388□CMS Phase-1 pixel detector readiness for the next LHC Run	NOEHTE, Lars

Nuclear, Particle- & Astrophysics: VII: Low Energy I - Room B (2:30 PM - 4:30 PM)

time	[id] title	presenter
2:30 PM	[M5] □362□Ultracold neutron production and extraction from the solid deuterium moderator of the PSI UCN source	RIENÄCKER, Ingo
2:45 PM	[M2] □363□Muonic atom spectroscopy with radioactive targets	VOGIATZI, Stergiani Marina
3:00 PM	[M29] □364□High Intensity Muon Beam project (HIMB): how to improve the most intense muon beam in the world	DAL MASO, Giovanni
3:15 PM	[M40] □365□A final cooling scheme for muon colliders: a door opener for future discovery machines	STECCHAUNER, Bernd Michael
3:30 PM	[M71] □366□Development of a high-brightness ultra-cold muon beam for future precision experiments with muons and muonium	IWAI, Ryoto
3:45 PM	[M41] □367□Muonium Spectroscopy	CORTINOVIS, Irene
4:00 PM	[M79] □368□Investigation of muonium emitters at room temperature	NUBER, Jonas

Nuclear, Particle- & Astrophysics: X: High Energy Physics III - Room D (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[M26] □391□Measurement of the Higgs boson production in the associated vector boson production mode where the vector boson decays leptonically and the Higgs boson decays to a pair of bottom quarks	GEDIA, Krunal Bipin
5:15 PM	[M0] □392□Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections and EFT interpretation in the single-lepton channel at CMS	LECHNER, Lukas
5:30 PM	[M17] □393□EFT measurements using top quarks with CMS	SCHWARZ, Dennis
5:45 PM	[M9] □394□SMEFT results in Higgs sector from CMS experiment	CHATTERJEE, Suman

6:00 PM	[M99] [395]	Top mass calibration for Monte-Carlo event generators	JIN, Oliver
6:15 PM	[M28] [396]	zfit: scalable pythonic fitting	ESCHLE, Jonas
6:30 PM	[M02] [397]	Towards Colour Flow Evolution at Two loops	RUFFA, Ines
6:45 PM	[M34] [398]	Generalization abilities of translationally equivariant neural networks	SCHUH, Daniel

Nuclear, Particle- & Astrophysics: VIII: Dark Sector and Low Energy II - Room B (5:00 PM - 7:00 PM)

time	[id]	title	presenter
5:00 PM	[M05] [371]	Exploring coherent neutrino-nucleus scattering with NUCLEUS experiment	Dr GHETE, Vasile Mihai
5:15 PM	[M38] [372]	Latest results of NA64 searching for Dark Sectors at the CERN SPS	BANTO OBERHAUSER, Benjamin
5:30 PM	[M04] [373]	Searches for Dark Sectors Weakly Coupled to Muons at the NA64 μ experiment at CERN	SIEBER, Henri Hugo
5:45 PM	[M10] [374]	Sp(4) SIMP Dark Matter on the Lattice	ZIERLER, Fabian
6:00 PM	[M36] [375]	ArDM - The only Dual-Phase Tonne-scale Liquid Argon Dark Matter Detector	STAUFFER, Alexander Martin
6:15 PM	[M65] [376]	Measurement of the Lamb shift of Antihydrogen atoms in GBAR	BLUMER, Philipp Peter
6:30 PM	[M27] [377]	Black Holes, Entropy and Holography	WUTTE, Raphaela
6:45 PM	[M22] [378]	Novel Developments in R-Matrix Theory	Prof. LEEB, Helmut