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17.1 Lectures

	Convenor INSERT CHAIRMEN
08.30 - 09.10	David Edward Bruschi (University of York)
35+5 min.	Elements and applications of Relativistic Quantum Information
09.10 - 09.50	Gordon Semenoff (University of York)
35+5 min.	Infrared Quantum Information
55 5 mm.	Infrarca Zuameam Información
09.50 - 10.30	Dmitry Gorbunov (INR of RAS)
35+5 min.	Gravity Wave signatures of Electroweak Phase Transition in Split NMSSM
10.90 11.00	C -
10.30 - 11.00	Coffee 30 min
11.00 - 11.40	Nikos Mavromatos (University of London (GB))
35+5 min.	Self-Interacting Dark Matter, Right-Handed Neutrinos and Small-Scale
	Cosmology "Crisis"
11 10 10 00	
11.40 - 12.20	Atlas (University of London (GB))
35+5 min.	Collider searches for DM (ATLAS+CMS)
14.30 - 15.10	Vladimir Zelevinsky (Michigan State University)
35+5 min.	Chaotic Quantum Many-Body Systems and Philosophy of Thermalization
15.10 - 15.50	Boris Kopeliovich (UTFSM)
35+5 min.	Fragmentation of highly virtual partons
16 20 17 10	Landa Chamai (HTECM)
16.30 - 17.10 35+5 min.	Laszlo Csernai (UTFSM) Advances in Relativistic Fluid Dynamics, Observables, and Applications
99 ⊢9 mm.	Automices in Resultitione Frank Dynamics, Observations, and Applications
17.10 - 17.50	Evgeny Zabrodin (SINP MSU (RU) and University of Oslo (NO))
35+5 min.	Fluctuations and correlations

18.1 Special Session on QCD

	Convenor INSERT CHAIRMEN
09.00 - 09.30	Willibald Plessas (University of Graz)
25+5 min.	Pion-Dressing Effects in Nucleon and Delta Masses and Form Factors
09.30 - 10.00	Hugo Reinhardt (72076 Tbingen")
25+5 min.	Hamiltonian approach to QCD in Coulomb gauge
10.00 - 10.30	Mario Mitter (University of Graz)
25+5 min.	Quark, gluon and meson correlators of unquenched QCD
10.30 - 11.00	Coffee 30 min
15.00 - 15.30	Christian Schubert (UMSNH)
25+5 min.	Form factor decompositions of the QCD four-gluon vertex
15.30 - 16.00	James Edwards (Universidad Michoacana de San Nicols de Hidalgo)
25+5 min.	Worldline colour fields and non-Abelian quantum field theory
16.00 - 16.30	Coffee 30 min
16.30 - 17.00	Leonid Glozman (University of Graz)
25+5 min.	$SU(2N_F)$ symmetry of confinement in QCD and its observation at high T
17.00 - 17.30	Thierry Grandou ("UMR-CNRS-7010)
25+5 min.	Effective locality and non-abelian gauge-invariance
17.30 - 18.00	Ryo Yoshiike (Kyoto university)
25+5 min.	Non-linear effect of the fluctuation for the inhomogeneous chiral phase transition

18.2 W. Greiner Memorial Session

	Convenor INSERT CI	HAIRMEN
11.00 - 11.30 25+5 min.	Dirk Rischke (University Frankfurt) Anisotropic dissipative fluid dynamics	
11.30 - 12.00 25+5 min.	Carsten Greiner (University of Frankfurt) Comparison of hydrodynamical and transport theoretical cal p+A and $A+A$ collisions	$culations\ for$
12.00 - 12.30 25+5 min.	Gottfried Mnzenberg (GSI Darmstadt) Super Heavy Elements - experimental developments	
12.30 - 13.00 25+5 min.	Igor Mishustin ("Frankfurt Institute for Advanced Studies) Greiner and exotic matter	
13.00 - 13.30 25+5 min.	Mikhail Itkis (joint institute for nuclear research) Experimental investigation of fusion-fission mechanisms fo nuclei	$r\ superheavy$
13.30 - 15.00	Lunch	1 h 30 min

18.3 Mini-workshop on Highly Ionising Avatars of New Physics

09.00 - 09.30 25+5 min.	Convenor INSERT CHAIRMEN Wim De Boer (KIT - Karlsruhe Institute of Technology (DE)) Perspectives on Detection of supersymmetric Dark Matter
09.30 - 10.00 25+5 min.	Yongmin Cho (Konkuk University) Cosmic Electroweak Monopole
10.00 - 10.30 25+5 min.	John Ellis (University of Graz) LHC Constraint on Light-by-light Scattering, Born-Infeld theory and the mass of an Electroweak Monopole
10.30 - 11.00	Coffee 30 min
11.00 - 11.30 25+5 min.	Sarben Sarkar (King's College London) Magnetic Monopoles from Global Monopoles in the presence of a Kalb-Ramond Field
11.30 - 12.00 25+5 min.	Laura Patrizii ("Universita e INFN) Status of the searches for Magnetic Monopoles
12.00 - 12.30 25+5 min.	Frederik Lauber (IceCube) Magnetic monopole searches with IceCube
12.30 - 13.00 25+5 min.	Adrian Bevan (Queen Mary University of London (GB)) Searching for monopoles in polar ice samples
13.00 - 13.30 25+5 min.	Oliver Gould (Imperial College London) Magnetic monopole production in heavy ion collisions
13.30 - 15.00	Lunch 1 h 30 min
15.00 - 15.30 25+5 min.	James Pinfold (University of Alberta (CA)) The MoEDAL Experiment Past, Present and Future.
15.30 - 16.00 25+5 min.	Richard Soluk (University of Alberta (CA)) The MoEDAL Detector at the LHC
16.00 - 16.30	Coffee 30 min
16.30 - 17.00 25+5 min.	Igor Ostrovskiy (University of Graz) Searching for magnetic monopoles with Solid State Breakdown Counters: from LHC to Space

17.00 - 17.30 25+5 min.	Jonathan Hays (University of London (GB)) Machine LEarning, Monopoles and MoEDAL
17.30 - 18.00 25+5 min.	Daniela Bauer (Imperial College (GB)) Distributed Computing for Small Collaborations
18.10 - 18.40 25+5 min.	Arka Santra (Univ. of Valencia and CSIC (ES)) Magnetic monopole production in photon fusion process.
18.40 - 19.10	Vasiliki Mitsou, Oscar Manuel Vives Garcia, Kazuki Sakurai, Roberto Ruiz De Austri (Univ. of Valencia and CSIC (ES))
25+5 min.	Long-lived charged supersymmetric particles and MoEDAL

19.1 Parallel session

15.00 - 15.30 25+5 min.	
15.00 - 15.30 25+5 min.	Viktor Riabov (Petersburg Nuclear Physics Institut (RU)) Resonance production in Pb-Pb collisions measured with the ALICE experiments at the LHC
15.30 - 16.00 25+5 min.	Cristina Bedda (Utrecht University (NL)) Measurements of D-meson production in p-Pb and Pb-Pb collisions with the ALICE detector at the LHC
16.00 - 16.30	Coffee 30 min
15.30 - 16.00 25+5 min.	Samuel Louis Bein (Hamburg University (DE)) CMS Search for new physics in events with jets, b-tagged jets, and large missing transverse momentum in the all-hadronic channel at $s=13~{\rm TeV}$
16.00 - 16.30	Coffee 30 min
16.30 - 17.00 25+5 min.	Maria Vasileiou (National and Kapodistrian University of Athens (GR)) Transverse momentum spectra and nuclear modification factors of identified charged hadrons in p-Pb and Pb-Pb collisions at $sNN=5.02$ TeV with ALICE
16.30 - 16.50 15+5 min.	Atlas (National and Kapodistrian University of Athens (GR)) Inclusive searches for squarks and gluinos with the ATLAS detector
16.50 - 17.15 20+5 min.	Athina Kourkoumeli-charalambidi ("Institute of Modern Physics) Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector
17.00 - 17.30 25+5 min.	Agnieszka uszczak (DESY @Cracow University of Technology) Dipole model analysis of highest precision HERA data, including very low $Q\hat{Z}$
17.00 - 17.30 25+5 min.	Varvara Batozskaya (National Centre for Nuclear Research (PL)) Measurements of the CP violating phase phi_s at LHCb
17.15 - 17.45	Sergey Polikarpov (National Research Nuclear University MEPhI (RU))

25+5 min. Recent CMS B physics results

17.30 - 18.00 Evgeni Kolomeitsev (Matej Bel University)

25+5 min. Fluctuations in non-ideal pion gas with dynamically fixed particle number

19.2 Special session on Astro-Cosmo-Gravity

Convenor INSERT CHAIRMEN 15.00 - 15.30 Violetta Sagun (CENTRA/BITP) 25+5 min. Neutron stars equation of state consistent with high-energy nuclear physics data 16.30 - 17.00 Alexandros Gezerlis ("Institute of Modern Physics) 25+5 min. Strongly interacting matter in neutron stars

19.3 B Heavy Ion Physics Session

Convenor INSERT CHAIRMEN

18.00 - 18.30	Sergei Voloshin (Wayne State University (US))
25+5 min.	Vorticity and global polarization in heavy ion collisions

19.4 Mini-Workshop on Latest Results and New Physics in the Higgs Sector

08.30 - 08.55 20+5 min.	Convenor INSERT CHAIRMEN Maxime Gouzevitch (Universite Claude Bernard-Lyon I (FR)) Introduction to the Mini-Workshop on Latest Results and New Physics in the Higgs Sector	
08.55 - 09.25 25+5 min.	Atlas (Universite Claude Bernard-Lyon I (FR)) $BEH\ overview\ (ATLAS)$	
09.30 - 10.00 25+5 min.	Anna Kropivnitskaya (The University of Kansas (US)) Higgs parameters measurement with CMS data	
10.00 - 10.30 25+5 min.	Atlas ("ITP) Measurement of cross sections and couplings of the Higgs Boson in fermionic production and decay modes with the ATLAS detector	ı
10.30 - 11.00	Coffee 30 min	L
11.00 - 11.30 25+5 min.	Valeria Botta (Deutsches Elektronen-Synchrotron (DE)) Measurements of the Higgs $H(125)$ boson at CMS	
11.30 - 11.55 20+5 min.	Asma Hadef, Asma Hadef (Joint Institute for Nuclear Research) ttH Coupling Measurement with the ATLAS Detector at the LHC	
11.55 - 12.25 25+5 min.	Oleg Lebedev (University of Helsinki) The Higgs and cosmology	
12.25 - 12.55 25+5 min.	Junquan Tao ("Institute of High Energy Physics) Search for rare and exotic Higgs Boson decay modes at CMS	
12.55 - 13.25 25+5 min.	Atlas (Joint Institute for Nuclear Research (RU)) Search for rare and exotic Higgs Boson decay modes and Higgs boson pair production with the ATLAS detector	a
15.00 - 15.30 25+5 min.	Pier Paolo Giardino (Brookhaven National Laboratory) Single Higgs production at LHC as a probe for anomalous Higgs self coupling	-
15.30 - 16.00 25+5 min.	Konstantin Androsov (INFN Pisa (IT)) Search for new physics in HH final state in CMS	
16.00 - 16.30	Coffee 30 min	L

16.30 - 17.00 25+5 min.	Atlas (National and Kapodistrian University of Athens (GR)) Search for neutral and charged BSM Higgs Bosons with the ATLAS detector
17.00 - 17.30 25+5 min.	Luca Panizzi (INFN Genova (Italy)) Phenomenological scenarios to fit a possible excess in the di-muon + jets channel
17.30 - 18.00 25+5 min.	Luigi Marchese (University of Oxford (GB)) Measurement of $Z\to b\bar b$ cross section and search for Higgs-like particle produced in association with b quarks at CDF
18.00 - 18.30 25+5 min.	Justin Andrew Williams (The University of Kansas (US)) Search for Anomalous Quartic Photon Coupling at the LHC

20.1 Poster session

	Convenor INSERT CHAIRMEN
20.00 - 21.00 55+5 min.	Frederic Lassiaille (FL research) Surrounding matter theory
20.00 - 21.00 55+5 min.	Hexi Shi (Frascati (RM) Italy") Search for the violation of Pauli principle at LNGS - first physics result of VIP2 experiment
20.00 - 20.30 25+5 min.	Andre Sopczak (Czech Technical University (CZ)) ttH Coupling Measurement with the ATLAS Detector at the LHC
20.00 - 21.00 55+5 min.	Wim De Boer (KIT - Karlsruhe Institute of Technology (DE)) Molecular Clouds as the Origin of the Gamma-Ray GeV excess
20.00 - 21.00 55+5 min.	Marjan Abbasipour (Iran University of Science and Technology) Modification of Material Surface by Plasma
20.00 - 21.00 55+5 min.	Igor Bulyzhenkov (Moscow Institute of Physics and Technology) Gravity until equipartition of relativistic kinetic energies.
20.00 - 21.00 55+5 min.	Timur Kamalov (Moscow Institute of Physics and Technology) Quantum Correction for Newtons Law of Motion
20.00 - 21.00 55+5 min.	Chhanda Samanta (Virginia Military Institute) A-dependence of $\Lambda\Lambda$ -bond and charge symmetry energies
20.00 - 21.00 55+5 min.	Shihan Sajeed (University of waterloo) Insecurity of detector-device-independent quantum key distribution
20.00 - 21.00 55+5 min.	Luigi Marchese, Luigi Marchese (University of waterloo) muon performance
20.00 - 21.00 55+5 min.	Alessandro Romito (Lancaster University) Thermodynamics along individual trajectories of a quantum bit
20.00 - 21.00 55+5 min.	Jorge Bernal Arroyo (Lancaster University) New Mathematical Formulation of the Correspondence Principle
20.00 - 21.00 55+5 min.	Gopinath Kamath (Indian Institute of Technology Tirupati) Cylindrical symmetry: II. The Greens function in $3+1$ dimensional curved space

20.00 - 21.00 55+5 min.	Luis Gonzalez-mestres (John Naisbitt University) New particles and nonstandard new Physics
20.00 - 21.00 55+5 min.	Valerio Mascagna (Sezione di Pavia) Experimental technique for \bar{p} -nucleus annihilation cross section measurements at low energy
20.00 - 21.00 55+5 min.	Luca Venturelli (Sezione di Pavia) Antiproton-nucleus annihilation cross section at low energy
20.00 - 21.00 55+5 min.	Christian Farnese ("INFN) The new front end and DAQ of the ICARUS detector
20.00 - 21.00 55+5 min.	Ryan Parker (University of York) Hybrid Photonic Loss Resilient Entanglement Swapping
20.00 - 21.00 55+5 min.	Virendrasinh H. Kher, Nayneshkumar Devlani, Ajay Kumar Rai (University of York) Radiative transitions and the mixing parameters of the D meson
20.00 - 21.00 55+5 min.	Zalak Marfatia, Ajay Kumar Rai (University of York) Heavy baryon spectroscopy in Hypercentral constituent quark model
20.00 - 21.00 55+5 min.	Adam Balcerzak (University of Szczecin) Varying constants quantum cosmologies
20.00 - 21.00 55+5 min.	Yifan Cheng ("Academia Sinica) Possible Approach to Dynamical Supersymmetry Breaking via Nambu– Jona-Lasinio Model
20.00 - 21.00	Georgios Karathanasis (National and Kapodistrian University of Athens (GR))
55+5 min.	The new CMS Barrel Muon Track Finder
20.00 - 21.00	Alexander Joan Cristo Jurez-domnguez (Benemrita Universidad Autnoma de Puebla)
55+5 min.	Quantization Aspects of a Hypercomplex Field
20.00 - 21.00 55+5 min.	Swagata Mukherjee (Rheinisch-Westfaelische Tech. Hoch. (DE)) Search for R-parity violating supersymmetry and Quantum black-holes in $e+mu$ final state in CMS
20.00 - 21.00 55+5 min.	mer Bayraktar (Max Planck Institute for the Science of Light) Experimental Relativistic Quantum Information with a Geostationary Satellite
20.00 - 21.00	Andrea Lavagno ("Politecnico di Torino)

55+5 min.	$Nuclear\ phase\ transition\ and\ thermodynamic\ instabilities\ in\ dense\ nuclear\ matter$
20.00 - 21.00	Mohammad M. Qaemmaqami (Institute for Research in Fundamental Sciences (IPM))
55+5 min.	On the Butterfly Effect in 3D Gravity
20.00 - 21.00 55+5 min.	Anna Stakia (CERN) Search for supersymmetry in events with one lepton, multiple jets and missing transverse momentum in proton-proton collisions at $s=13~{\rm TeV}$
20.00 - 21.00 55+5 min.	Anna Stakia (CERN) Jet-flavour tagging using deep-learning in the CMS experiment
20.00 - 21.00 55+5 min.	Ralf Seidl (RIKEN) Latest results on azimuthal anisotropy at RHIC-PHENIX
20.30 - 21.00 25+5 min.	Elisaveta Zherebtsova (National Research Nuclei University MEPhI) Procedure for event characterization in Pb-Pb collisions at 40AGeV in the NA49 experiment at CERN SPS
20.40 - 21.00 15+5 min.	Laszlo Csernai (National Research Nuclei University MEPhI) Applications of Advances in Relativistic Fluid Dynamics to Laser Fusion
20.40 - 21.00 15+5 min.	Cristiano Sebastiani ("Sapienza Universita e INFN) Search for displaced lepton jets with the ATLAS experiment
20.40 - 21.00 15+5 min.	Oleksii Ivanytskyi (BITP) On bimodal size distribution of spin clusters in the one-dimensional Ising model

20.2 A Particle Physics

08.30 - 09.00 25+5 min.	Convenor INSERT CHAIRMEN John Ellis (The University of Kansas (US)) What Physics Beyond the Standard Model?
09.00 - 09.30 25+5 min.	Malgorzata Kazana (NCBJ Warsaw (PL)) CMS Overview
09.30 - 10.00 25+5 min.	Atlas (NCBJ Warsaw (PL)) ATLAS overview highlight talk
10.00 - 10.30 25+5 min.	Yasmine Sarah Amhis (NCBJ Warsaw (PL)) LHCb overview
10.30 - 11.00	Coffee 30 min
11.00 - 11.30 25+5 min.	Vladimir Gligorov (Centre National de la Recherche Scientifique (FR)) Flavourful roads to New Physics
11.30 - 12.00 25+5 min.	Rainer Mankel (Deutsches Elektronen-Synchrotron (DE)) ATLAS and CMS prospects for Higgs measurements and searches at the high luminosity LHC
12.00 - 12.30 25+5 min.	Marek Karliner (Tel Aviv University (IL)) Prediction and discovery of doubly-heavy baryon

20.3 C Quantum Optics and Quantum Information

Convenor INSERT CHAIRMEN

18.00 - 18.50 Avshalom Elitzur (Iyar)
45+5 min. Would Nega-Particles Prove to be Essential Ingredients of Quantum Reality?

20.4 Special Session on Instruments and Methods in HEP

Convenor INSERT CHAIRMEN

10.00 - 10.30 25+5 min.	Silvio Donato (Universitaet Zuerich (CH)) Overview talk on trigger performances (CMS)
12.00 - 12.50 45+5 min.	Nicolas Berger (LAPP Annecy (CNRS/IN2P3)) Lecture on Statistical analysis methods by ATLAS
13.30 - 14.00 25+5 min.	Thomas Josua Mettler (Universitaet Bern (CH)) The Short Baseline Neutrino Detector at Fermilab
14.00 - 14.30 25+5 min.	Antonio Sbrizzi ("Universita e INFN) The LUCID-2 detector
14.30 - 15.00 25+5 min.	Murat Ali Guler (University of St Andrews) Directional dark matter search with nuclear emulsion

20.5 Workshop on continuous variables and quantum information

	Convenor INSERT (CHAIRMEN
13.00 - 13.30	Silvio Donato (Universitaet Zuerich (CH))	
25+5 min.	Overview talk on trigger performances (CMS)	
13.30 - 15.00	Lunch	1 h 30 min
13.30 - 13.00	Lunch	1 11 00 111111
15.00 - 15.50	Nicolas Berger (LAPP Annecy (CNRS/IN2P3))	
45+5 min.	Lecture on Statistical analysis methods by ATLAS	
16 20 17 00	Thomas Issue Mettler (University of Dam (CII))	
16.30 - 17.00	Thomas Josua Mettler (Universitate Bern (CH)) The Short Baseline Neutrino Detector at Fermilab	
25+5 min.	The Short Dasetine Neutrino Detector at Fermilao	
17.00 - 17.30	Antonio Sbrizzi ("Universita e INFN)	
25+5 min.	The LUCID-2 detector	
17.30 - 18.00	Murat Ali Guler (University of St Andrews)	
25+5 min.	Directional dark matter search with nuclear emulsion	

20.6 Workshop on Exotic Hadrons

11.00 - 11.30	Convenor INSERT CHAIRMEN Maria Chekhova (Max-Planck Institute for the Science of Light)	
25+5 min.	Phase supersensitivity in an unbalanced $SU(1,1)$ interferometer	
11.30 - 12.00 25+5 min.	U L Andersen (Max-Planck Institute for the Science of Light) Squeezed light enhanced sensing of a micro-mechanical oscillator	
12.00 - 12.30 25+5 min.	Radim Filip (Palacky University in Olomouc) Highly nonlinear quantum optics and optomechanics	
12.30 - 13.00 25+5 min.	Christian Ralf Mller (Tel Aviv University (IL)) From Quantum-Limited Measurements towards Quantum Squeezing Detection over Satellite Links	
15.00 - 15.20 15+5 min.	Vladimir Shevchenko (University of Glasgow) Quantum measurements in finite space-time domain	
15.20 - 15.40 15+5 min.	Aurelian Isar ("National Institute of Physics and Nuclear Engineering) Dynamics of quantum correlations in two-mode Gaussian open quantum systems	
15.40 - 16.00 15+5 min.	Mihaescu Tatiana (KVI-CART/University of Groningen) Gaussian quantum steering of two bosonic modes in a squeezed thermal environment	
16.00 - 16.30	Coffee 30 min	
16.30 - 17.00 25+5 min.	Ladislav Mista (Palacky University) Gaussian intrinsic entanglement	
17.00 - 17.30 25+5 min.	Petros Wallden (University of Edinburgh) Relativistic and Device Independent Verifiable Quantum Computation	
17.30 - 17.50 15+5 min.	Matthew Thornton (University of St Andrews) Gigahertz quantum signatures compatible with telecommunication technologies	
17.50 - 18.10 15+5 min.	Tom Douce (Universit Pierre et Marie Curie) Quantum advantage and fault tolerant universal quantum computing in continuous variables	

20.7 Workshop on Future of Fundamental Physics

	Convenor INSERT CHAIRMEN
15.00 - 15.30 25+5 min.	Dominik Werthmller (University of Glasgow) Exotic Baryons at MAMI
15.30 - 16.00 25+5 min.	Johan Messchendorp (KVI-CART/University of Groningen) Prospects for Exotic Hadron Spectroscopy at PANDA
16.00 - 16.30	Coffee 30 min
16.30 - 17.10 35+5 min.	Jianbin Jiao (Shandong University) light exotic hadrons at BESIII
17.10 - 17.40 25+5 min.	Hideko Nagahiro (Nara Women's University) Structure of excited charmed baryons studied by pion emission decays
17.40 - 18.00 15+5 min.	Atsushi Hosaka (Osaka University) Heavy hadron production for the study of their structure
18.00 - 18.40 35+5 min.	H. Noumi (Universit Pierre et Marie Curie) Strange and Charm Baryon Spectroscopy at J-PARC
18.40 - 19.00 15+5 min.	Milena Piotrowska (Jan Kochanowski University) Excited vector mesons: phenomenology and predictions for a yet unknown vector $\bar{s}s$ state with a mass of about 1.93 GeV

20.8 S. Belyaev Memorial Session

	Convenor INSERT CHAIRMEN
12.00 - 12.30 25+5 min.	Vladimir Zelevinsky (Michigan State University) Introduction
12.30 - 13.00 25+5 min.	Peter Ring (Technical University Munich) Covariant density functionals in nuclear physics and their microscopic origin.
13.30 - 14.00 25+5 min.	Michael Urin (Universitaet Bern (CH)) DAMPING OF SIMPLE MODES OF HIGH-ENERGY NUCLEAR EX- CITATIONS
14.00 - 14.30 25+5 min.	Elena Litvinova (Western Michigan University) Isospin dynamics in nuclear structure
14.30 - 15.00 25+5 min.	Oleg Sushkov (University of New South Wales) Bose condensation of triplons in quantum magnets

20.9 Mini-workshop:Correlations and Fluctuations in Relativistic Heavy Ion Collisions

	Convenor INSERT CHAIRMEN
15.00 - 15.30 25+5 min.	Vladimir Zelevinsky (Michigan State University) Introduction
15.30 - 16.00 25+5 min.	Peter Ring (Technical University Munich) Covariant density functionals in nuclear physics and their microscopic origin.
16.00 - 16.30	Coffee 30 min
16.30 - 17.00 25+5 min.	Michael Urin (Universitaet Bern (CH)) DAMPING OF SIMPLE MODES OF HIGH-ENERGY NUCLEAR EX- CITATIONS
17.00 - 17.30 25+5 min.	Elena Litvinova (Western Michigan University) Isospin dynamics in nuclear structure
17.30 - 18.00 25+5 min.	Oleg Sushkov (University of New South Wales) Bose condensation of triplons in quantum magnets

21.1 Session on Physics Education and Outreach

15.00 - 15.25	Convenor INSERT CHAIRMEN Mina Katramatou (Kent State University)
20+5 min.	Active Learning Teaching for Introductory Physics
15.25 - 15.50	Gerassimos Petratos (Kent State University)
20+5 min.	Trends in Undergraduate Physics Education in the US
16.30 - 16.55 20+5 min.	Georgios Fanourakis (Nat. Cent. for Sci. Res. Demokritos (GR)) The European Researchers' Night: concepts and impact
16.55 - 17.20 20+5 min.	Helen Gourlay (Brunel University) Learning about A Level Physics students understandings of particle physics using concept mapping
17.20 - 17.45 20+5 min.	Antonios Leisos (Aristotle University of Thessalonki (GR)) The Hellenic Open University Cosmic Ray Telescope: Research and Educational Activities
17.45 - 18.10 20+5 min.	Lazaros Merakos (Greek Universities Network) Opening up Greek Universities: opencourses.gr

21.2 Public talk

Convenor INSERT CHAIRMEN

19.30 - 20.30	John Ellis ("INFN)	
55+5 min.	What are we? Where do we come from? Where are we go	ing?
20.30 - 21.30	Dinner	1 h 00 min

22.1 Workshop on Quantum Foundations and Quantum Information

Convenor INSERT CHAIRMEN

14.45 - 15.00 10+5 min.	(University of Bonn (DE)) Opening words	
15.00 - 15.30 25+5 min.	Alessandro Romito (Lancaster University) Ubiquitous non-local entanglement with Majorana bound states	
15.30 - 16.00 25+5 min.	Yutaka Shikano (The University of Tokyo) Quantum Dynamical Simulation by Quantum Walk	
16.00 - 16.00	Coffee	00 min
16.30 - 17.00 25+5 min.	Lajos Diosi (Wigner Research Centre for Physics) Pure state post-selection is universal	
17.00 - 17.30 25+5 min.	Angelo Bassi (Department of Physics - University of Trieste) Wave function collaspe and gravity	
17.30 - 18.00 25+5 min.	Ron Folman (Ben-Gurion University of the Negev) Matter waves exposed to the external world: Decoherence, grave plementarity and time irreversibility	ity, com-
18.00 - 18.30 25+5 min.	Andrea Alberti (University of Bonn) Testing the superposition principle with individual trapped atom	S

22.2 Joint Quantum Session

Convenor INSERT CHAIRMEN 11.00 - 11.30 Lorenzo Maccone (Instituto de Fsica Corpuscular) 25+5 min. Quantum time mechanism, towards quantum spacetime 11.30 - 12.00 Ralf Schuetzhold (University Duisburg-Essen) 25+5 min. Fundamental quantum effects in the laboratory? 12.00 - 12.30 Yuval Gefen (University of Science and Technology of China) Manifestation and Detection of Discord in Nanostructures

23.1 D Astroparticle, Cosmology,d Gravity, Math Phys

Convenor INSERT CHAIRMEN 13.00 - 13.30 Mario Buscemi ("Universit di Catania) 25+5 min. The Pierre Auger Observatory: latest results and future perspectives 13.30 - 15.00 Lunch 1 h 30 min

23.2 H. Oeschler Memorial Session

	Convenor INSERT CHAI	\mathbf{RMEN}
15.00 - 15.30	Jean Cleymans (University of Cape Town (ZA))	
25+5 min.	Helmut Oeschler and Particle Chemistry in Heavy Ion Collision	is
15.30 - 16.00 25+5 min.	Krzysztof Redlich (University of Wroclaw (PL)) Linking the particle yields data in HIC and lattice QCD results	
16.00 - 16.30	Coffee	30 min
16.30 - 17.00 25+5 min.	Unknown Unknown (University of Wroclaw (PL)) Probing resonance matter with HADES	

23.3 Workshop on Physics at FAIR-NICA-SPS-BES/RHIC

	Convenor INSERT CHAIRMEN
09.30 - 10.00 25+5 min.	Yu. B. Ivanov (RIKEN) Three-fluid Hydrodynamics-based Event Simulator Extended by UrQMD final State interactions (THESEUS) for FAIR-NICA-SPS-BES/RHIC energies
10.00 - 10.30 25+5 min.	Hanna Zbroszczyk (Warsaw University Of Technology) Two-particle correlations using THERMINATOR model for BES program
10.30 - 11.00	Coffee 30 min
11.00 - 11.30 25+5 min.	Kyrill Bugaev ("Bogolyubov Institute for Theoretical Physics) Probing the tricritical endpoint of QCD phase diagram at NICA-FAIR energies
11.30 - 12.00 25+5 min.	Oleksii Ivanytskyi (BITP) Separate freeze-out of strange particles and the quark-hadron phase transition
12.00 - 12.30 25+5 min.	Antoni Marcinek (Polish Academy of Sciences (PL)) New Baryonic and Mesonic Observables from NA61/SHINE
15.00 - 15.30 25+5 min.	Andrej Kugler ("Nuclear Physics Institute) Flow at SIS energies - overview of SIS18 results and prospect for SIS100
15.30 - 16.00 25+5 min.	Chi Yang (Shandong University) The STAR detector upgrade and future plan
16.00 - 16.30	Coffee 30 min

23.4 Workshop on NCG

	Convenor INSERT CHAI	\mathbf{RMEN}
08.30 - 09.10	Latham Boyle (Perimeter Institute)	
35+5 min.	What is the standard model of particle physics trying to tell us?	
09.10 - 09.50	Nadir Bizi (UPMC (Paris VI))	
35+5 min.	A Noncommutative Geometry inspired GUT	
09.50 - 10.30	Shane Farnsworth (Max-Planck Institute for Gravitational Phys	sics)
35+5 min.	Applications of non-associative geometry in particle physics	
10.30 - 11.00	Coffee	30 min
11.00 - 11.40	Koen Van Den Dungen (SISSA)	
35+5 min.	Families of spectral triples and foliations of spacetime	
11.40 - 12.20	Tomasz Miller (Warsaw University of Technology)	
35+5 min.	Causal relations in noncommutative spacetime	
12.20 - 13.00	Nicolas Franco (University of Namur)	
35+5 min.	Physical models from noncommutative causality	
15.00 - 15.40	Anna Pachol (Queen Mary University of London)	
35+5 min.	Introduction to noncommutative digital geometry	
16.30 - 17.10	Christopher Fritz (Sussex University)	
35+5 min.	Noncommutative Spherically Summetric Spacetimes at Semicals: der	sical Or-

24.1 Special Session on Instruments and Methods in HEP

	Convenor INSERT CHAIRMEN
11.00 - 11.30	You Zhou (University of Copenhagen (DK))
25+5 min.	Correlations of anisotropic flow in relativistic heavy-ion collisions at the LHC
11.30 - 12.00 25+5 min.	Grigory Nigmatkulov (National Research Nuclear University MEPhI) Pion and kaon Bose-Einstein correlations from the BES program at $STAR$
12.00 - 12.30 25+5 min.	Ewa Maksymiuk (Jan Kochanowski University) Equations of anisotropic hydrodynamics for quark and gluon fluids

24.2 Mini-workshop:Correlations and Fluctuations in Relativistic Heavy Ion Collisions

Convenor INSERT CHAIRMEN

09.30 - 10.00	Ewa Maksymiuk (Jan Kochanowski University)
25+5 min.	Equations of anisotropic hydrodynamics for quark and gluon fluids

25.1 Workshop on Future of Fundamental Physics

05.30 - 06.15 40+5 min.	John William Womersley (University of Arizona) The challenges of large infrastructure physics projects in the 21st century
06.15 - 06.55 35+5 min.	Jie Gao ("Institute of High Energy Physics) The CEPC/SppC project: status and challenges
06.55 - 07.30 30+5 min.	Davide Gamba (CERN) Status and plans of the Compact Linear Collider project
08.00 - 08.35 30+5 min.	Erik Adli (University of Oslo (NO)) $AWAKE: \ the \ proton-driven \ plasma \ wakefield \ accelerator \ experiment \ at \ CERN$
08.35 - 09.10 30+5 min.	Mario Antonelli (INFN e Laboratori Nazionali di Frascati (IT)) Low emittance muon beam for multi-TeV muon collider
12.00 - 12.30 25+5 min.	Amarjit Soni (BNL) Advances in Direct CP violation
12.30 - 13.00 25+5 min.	Giulia Ricciardi (Univ. Napoli Federico II) Tensions in the flavour sector

25.2 S. Belyaev Memorial Session

	Convenor INSERT CHAI	RMEN
08.30 - 09.15	John William Womersley (IFIN-HH)	
40+5 min.	The challenges of large infrastructure physics projects in the 21st	century
09.15 - 09.55	Jie Gao ("Institute of High Energy Physics)	
35+5 min.	The CEPC/SppC project: status and challenges	
09.55 - 10.30	Davide Gamba (CERN)	
30+5 min.	Status and plans of the Compact Linear Collider project	
10.30 - 11.00	Coffee	30 min
11.00 - 11.35	Erik Adli (University of Oslo (NO))	
30+5 min.	AWAKE: the proton-driven plasma wakefield accelerator experi	ment at
	CERN	
11.35 - 12.10	Mario Antonelli (INFN e Laboratori Nazionali di Frascati (IT))	
30+5 min.	Low emittance muon beam for multi-TeV muon collider	
15.00 - 15.30	Amarjit Soni (BNL)	
25+5 min.	Advances in Direct CP violation	
15.30 - 16.00	Giulia Ricciardi (Univ. Napoli Federico II)	
25+5 min.	Tensions in the flavour sector	
16.00 - 16.30	Coffee	30 min

25.3 Workshop on (Super)gravity, String theory and Related Topics

11.00 - 11.10 05+5 min.	Convenor INSERT CHAI Augusto Sagnotti (Scuola Normale Superiore and INFN-Sezione (IT)) Introduction	
11.10 - 11.55 40+5 min.	Nikos Irges (National Technical University of Athens) Non-perturbative Gauge-Higgs Unification	
11.55 - 12.40 40+5 min.	Silvia Nagy (University of Nottingham) Supergravity as Yang-Mills squared: from classical to quantum	
12.40 - 13.25 40+5 min.	Fabio Riccioni (INFN - National Institute for Nuclear Physics) Exotic branes and non-geometric fluxes in string theory	
15.00 - 16.00 55+5 min.	Paolo Natoli (Universit di Ferrara) Cosmology with PLANCK: exploring the early Universe via the	CMB
16.00 - 16.30	Coffee	30 min
17.15 - 18.00 40+5 min.	Andrea Campoleoni (Universit Libre de Bruxelles) Higher spins in 3D: from AdS to flat space	
18.00 - 18.45 40+5 min.	Alessandro Tomasiello (Milan Bicocca University) Recent progress on M5-branes at singularities	

25.4 Interdisciplinary Session

Convenor INSERT CHAIRMEN

17.00 - 17.30	Georgios Pavlos (Democritus University of Thrace)
25+5 min.	Complexity and unification in Physical theory