

# ICHEP 2022

## Thursday, 7 July 2022

### Top quark and EW Physics - Room 4 (Rossa) (09:00 - 10:45)

-Conveners: Maria Aldaya; Martijn Mulders

time	title	presenter
09:00	Measurements of W/Z production at ATLAS	ZAKHARCHUK, Nataliia
09:15	Recent measurements of W and Z bosons with the CMS experiment	CIPRIANI, Marco
09:30	Measurements of top quark production cross-sections with the ATLAS detector	HAWKINGS, Richard
09:45	Measurement of $t\bar{t}$ and single top production cross sections in CMS	MULLER, Denise
10:05	Electroweak Physics in the Forward Region	LUCCHESI, Donatella
10:20	New physics results with the CMS Precision Proton Spectrometer	BELLORA, Andrea

### Accelerators: Physics, Performance, and R&D for future facilities - Room 12 (Celeste) (09:00 - 10:45)

-Conveners: Angeles Faus-Golfe

time	title	presenter
09:00	Crystal-based positron source for the lepton colliders	CHAIKOVSKA, Iryna
09:15	Considerations for Fermilab Multi-MW Proton Facility in the DUNE/LBNF era	NAGAITSEV, Sergei
09:30	Beam Dynamics Effects in the Muon g-2 Experiment	DRIUTTI, Anna
09:45	Tracking the magnetic field in the Fermilab Muon g-2 experiment	REIMANN, René
10:00	The Advanced Beam-Cooling Program at Fermilab: First Experimental Demonstration of Optical Stochastic Cooling	NAGAITSEV, Sergei
10:15	Pion-Production Target for Mu2e-II: Simulation Design and Prototype	PRONSKIKH, Vitaly
10:30	Crystal-based extraction of the electron beam circulating in the DESY II Booster Synchrotron	MAZZOLARI, Andrea

### Quark and Lepton Flavour Physics - Room 9 (Indaco) (09:00 - 10:45)

time	title	presenter
09:00	Branching fractions and CP asymmetries in $B \rightarrow c\bar{c}l$ decays through $b \rightarrow c$ process at Belle	SMITH, Kim
09:17	Beauty to open charm final states at LHCb	HOLLITT, Sophie
09:34	Measurements of the CKM angle $\gamma$ at LHCb	EVANS, Timothy
09:51	Recent Belle II results on hadronic B decays	SKORUPA, Justin
10:08	ATLAS measurements of $CP$ violation and rare decay processes with beauty mesons	REZNICEK, Pavel
10:25	Beauty to charmonium decays at LHCb	HU, Wenhua

### Formal Theory - Room 7 (Gialla) (09:00 - 10:45)

-Conveners: Jaroslav Trnka; Silvia Penati

time	title	presenter
09:00	Dark Phase Transition and Gravitational Wave of Strongly Coupled Hidden Sectors	WANG, ZHIWEI
09:15	A new approach to observables in quantum gravity	MAAS, Axel
09:30	Classical and quantum gravitational scattering with Generalized Wilson Lines	BONOCORE, Domenico
09:45	Radiation dynamics in the multibrane Randall-Sundrum model	CAI, Haiying
10:00	A new mechanism for symmetry breaking from nilmanifolds	DEANDREA, Aldo
10:15	The limits of the strong CP problem	TAMARIT, Carlos

### Dark Matter - Room 11 (Magenta A) (09:00 - 10:45)

-Conveners: Marco Selvi

time	title	presenter
09:00	Thermal WIMPs and the Scale of New Physics	BENIWAL, Ankit
09:15	Updating constraints on the decaying dark matter scenario	ALVI, Shahbaz Nihal Ahmed
09:35	Post-Recombination Spectral Distortions from Dark Matter Energy Injection	QIN, Wenzer
09:50	Blazar-Boosted Dark Matter	GRANELLI, Alessandro
10:10	New Strategies and Targets for Probing of Velocity-Dependent Dark Matter Annihilation	KUMAR, Jason
10:25	Soft Scattering Evaporation of Dark Matter Subhalos by Inner Galactic Gases	LIN, Yugen

**Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (09:00 - 10:45)****-Conveners: Gunar Schnell; Maria Ubiali**

time	title	presenter
09:00	Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions	COOPER-SARKAR, Amanda
09:15	The NNPDF4.0 global analysis and related studies	STEGEMAN, Roy
09:30	Determination of proton parton distribution functions using ATLAS data	ZHANG, Zhiqing
09:45	Probing Parton Distribution Functions at LHCb	XU, Menglin
10:00	Emergence of resummation scales in the evolution of the QCD strong coupling and PDFs	BOZZI, Giuseppe
10:15	EKO and yadism: theory predictions for PDF fitting	CANDIDO, Alessandro
10:30	Parton structure at the LHeC and FCC-he	GWENLAN, Claire

**Astroparticle Physics and Cosmology - Room 8 (Blu) (09:00 - 10:45)****-Conveners: Fabio Finelli**

time	title	presenter
09:00	Tachyonic preheating and its observational signatures	TOMBERG, Eemeli
09:15	Ending inflation with a bang: Higgs vacuum decay in $R^2$ gravity	MANTZIRIS, Andreas
09:30	Phase transitions: A source of cosmic-frontier phenomenology	CAMARGO-MOLINA, Eliel
09:45	Bubble wall dynamics at the electroweak phase transition	GUIGGIANI, Andrea
10:00	Fate of electroweak symmetry in the early Universe: Non-restoration and trapped vacua in extended Higgs sectors	BIEKOETTER, Thomas
10:15	Leptogenesis from U(1) flavor symmetry	MARCIANO, Simone
10:30	Slow-roll inflation in Palatini F(R) gravity	RACIOPPI, Antonio

**Higgs Physics - Room 5 (Aavorio) (09:00 - 10:45)****-Conveners: Karsten Köneke; Sylvie Braibant**

time	title	presenter
09:00	Measurements of the Higgs boson couplings and their interpretations in bosonic final states at the ATLAS experiment	MUNGO, Davide Pietro
09:15	Measurements of the Higgs boson couplings and their interpretations in fermionic final states at the ATLAS experiment	DI GREGORIO, Giulia
09:30	Higgs boson differential and STXS measurements - fermion channels	BROMMER, Sebastian
09:45	Higgs boson differential and STXS measurements - bosonic channels	TARABINI, Alessandro
10:00	Measurements of the Higgs boson fiducial and differential cross sections in bosonic final states at the ATLAS experiment	SCHAFFER, Arthur
10:15	Constraints on the Higgs-charm coupling by CMS	POZDNYAKOV, Andrey
10:30	Search for Higgs boson decays to second generation fermions and other Higgs boson rare decays at the ATLAS experiment	WARD, Robert

**Heavy Ions - Room 3 (Verde) (09:00 - 10:45)****-Conveners: Manuel Colocci**

time	title	presenter
09:00	Light flavour particle production in the smallest hadronic systems created in ALICE at the LHC	KRÜGER, Mario
09:15	Anisotropic flow of (multi-)strange hadrons in Au+Au collisions at BES-II energies.	DIXIT, Prabhupada
09:35	Elliptic flow of strange and multi-strange hadrons in isobar collisions $\sqrt{s_{\mathrm{NN}}} = 200\text{--}600\text{ GeV}$ from RHIC-STAR	BAIRATHI, Vipul
09:50	New insights into strangeness production in pp collisions with ALICE at the LHC	ERCOLESSI, Francesca
10:10	New measurements in fixed-target collisions at LHCb	MARIANI, Saverio
10:25	The Search for the Schwinger Production of Magnetic Monopoles in Pb-Pb Collisions at the LHC	OSTROVSKIY, Igor

**Beyond the Standard Model - Room 10 (Magenta B) (09:00 - 10:45)****-Conveners: Niki Saoulidou; Antonio Sidoti**

time	title	presenter
09:00	Leptoquark and vector-like quark extended models as the explanation of the muon $g-2$ anomaly	HE, Shi-Ping
09:15	Flavour anomalies, Light Dark Matter and rare B decays with missing energy in $L_{\mu}\text{-}L_{\tau}$ model	MOHANTA, Rukmani
09:30	BSM scenarios with missing energy at future lepton colliders	ROBENS, Tania
09:45	Pair production of charged IDM scalars at high energy CLIC	KLAMKA, Jan
10:00	Search for darkonium at BABAR.	GARZIA, Isabella
10:15	The search of the X17 particle with the MEG-II detector	BENMANSOUR, Hicham

**Neutrino Physics - Room 2 (Italia) (09:00 - 10:45)****-Conveners: Alessandra Tonazzo**

time	title	presenter
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09:00	Neutrino Oscillation Measurements at T2K	SKWARCZYNSKI, Kamil
09:15	The T2K Near Detector Upgrade	YEVAROUSKAYA, Uladzislava
09:30	Measurement of Standard and Non-standard Oscillations at NOvA	DAVIES, Gavin
09:45	Deep Learning Event Reconstruction at NOvA	BIAN, Jianming
10:00	Measurements of Neutrino Interaction Cross Sections at T2K	ZARNECKI, Grzegorz
10:15	Neutrino Scattering Measurements at NOvA	CREMONESI, Linda
10:30	MINERvA medium-energy physics results	PLOWS, Komninos-John

**Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors - Room 6 (Bianca) (09:00 - 10:45)**

-Conveners: Carla Sbarra; Petra Merkel; Felix Reidt

time	title	presenter
09:00	General overview of ATLAS Upgrades projects for HL-LHC	MILIC, Adriana
09:18	A High-Granularity Timing Detector for the ATLAS Phase-II upgrade	LIANG, Zhijun
09:35	Flavour Physics at the High Luminosity LHC: LHCb Upgrade II	WANG, Jianchun
09:53	The CMS MTD Endcap Timing Layer: Precision Timing with Low Gain Avalanche Detectors	TORNAGO, Marta
10:10	Precision Timing with the CMS MTD Barrel Timing Layer for HL-LHC	ADDESA, Francesca Maria
10:28	New opportunities for understanding high-density QCD matter with CMS PhaseII detector at the High Luminosity LHC era	ZHANG, Yousen

**Beyond the Standard Model - Room 10 (Magenta B) (11:15 - 13:00)**

-Conveners: Antonio Sidoti; Michal Malinsky

time	title	presenter
11:15	Search for sub-millicharged particles at J-PARC	JEONG, Hoyong
11:30	The HPS experiment at Jefferson Lab	DE NAPOLI, Marzio
11:45	Dark sector studies with the PADME experiment	VALENTE, Paolo
12:00	First results for searches of exotic decays with NA62 in beam-dump mode	MINUCCI, Elisa
12:15	Latest results and future prospects of the NA64 experiment at CERN SPS	MARSICANO, Luca
12:30	Search for invisible decays at BESIII	JIANG, Houbing
12:45	Techniques for model-independent interpretations of hidden particle searches	KLOSE, Philipp

**Quark and Lepton Flavour Physics - Room 9 (Indaco) (11:15 - 13:00)**

time	title	presenter
11:15	CP violation in charmless multibody B decays at LHCb	GOMES, Alvaro
11:32	Recent Belle II results on decay-time-dependent CP violation	LA LICATA, Chiara
11:49	Measurements of charm lifetimes at Belle II	NELLIKUNNUMMEL, Nisar
12:06	(Semi-)leptonic D decays at BESIII	BALOSSINO, Ilaria
12:23	$\Lambda_c^+$ decays at BESIII	GENG, Cong
12:40	Incorporating final-state interactions in the prediction of the measured CP-asymmetry of D-meson two-body decays	VALE SILVA, Luiz

**Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors - Room 6 (Bianca) (11:15 - 13:00)**

-Conveners: Carla Sbarra; Petra Merkel; Felix Reidt

time	title	presenter
11:15	Performance of CMS High-Granularity Calorimeter for HL-LHC	DAVID, André
11:32	Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC	DEIANA, Allison
11:49	The CMS ECAL upgrade for precision timing measurements at the High-Luminosity LHC	ARGIRO', Stefano
12:06	Upgrade of the ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC	FIORINI, Luca
12:23	Physics opportunities with a MIP Timing Detector in CMS for HL-LHC	SOFFI, LIVIA
12:40	The new improved RPCs of CMS prevailing the challenges of High-Lumi LHC	ASILAR, Ece

**Higgs Physics - Room 5 (Avorio) (11:15 - 13:00)**

-Conveners: Yuji Enari; María Cepeda

time	title	presenter
11:15	Studies of anomalous couplings of the Higgs boson and its CP structure at CMS	CHATTERJEE, Suman
11:30	Measurements of the CP structure of Higgs-boson couplings with the ATLAS detector	GOBLIRSCH-KOLB, Maximilian
11:45	Precision measurements of the Higgs boson mass and width using four-lepton and diphoton final states	BARONE, Gaetano
12:00	Higgs couplings combination at CMS	BONANOMI, Matteo

12:15	Combined Higgs boson measurements at the ATLAS experiment	WANG, Zirui
12:30	Development of novel experimental techniques to improve the understanding of the Higgs sector by the ATLAS experiment	JIGGINS, Stephen
12:45	Jet Clustering Techniques for New Higgs Boson Searches in Hadronic Final States	JAIN, Shubhani

**Accelerators: Physics, Performance, and R&D for future facilities - Room 12 (Celeste) (11:15 - 13:00)**

-Conveners: Jie Gao

time	title	presenter
11:15	The CLIC and ILC accelerator status and plans	FAUS-GOLFE, Angeles
11:35	Report of electron beam acceleration with STF-2 cryomodules for the ILC	KURATA, Masakazu
11:50	Study status of the CEPC Machine-Detector Interface and Interaction Region	SHI, Haoyu
12:05	FCC-ee Energy Calibration and Polarization	KEINTZEL, Jacqueline
12:20	FCC-ee Booster Design	DALENA, Barbara
12:35	FCC-ee Collective Effects and their mitigation	CARIDEO, Emanuela

**Formal Theory - Room 7 (Gialla) (11:15 - 13:00)**

-Conveners: Jaroslav Trnka; Silvia Penati

time	title	presenter
11:30	RGEs and positivity bounds of the SMEFT dimension-8 operators.	DAS BAKSHI, Supratim
11:45	MATCHETE: Matching Effective Theories Efficiently	PAGÈS, Julie
12:00	On a common origin of gauge interactions and flavour structure of the Standard Model	PASECHNIK, Roman
12:15	Axion Effective Action	VUONG, Pham Ngoc Hoa
12:30	Quantum algorithm for querying causality of multiloop scattering amplitudes	RAMIREZ URIBE, Norma Selomit
12:45	The Nielsen-Olesen vortex coupled to Einstein gravity in AdS <sub>3</sub>	EDERY, Ariel

**Dark Matter - Room 11 (Magenta A) (11:15 - 13:00)**

-Conveners: Marco Selvi

time	title	presenter
11:15	Minimal Consistent Dark Matter Models for systematic Dark Matter exploration	BELYAEV, Alexander
11:30	Bound-state effects for dark matter models: from the relic density to experimental searches	BIONDINI, Simone
11:50	Importance of Non-Perturbative Effects for the Exclusion or Discovery of Dark Matter Models	HARZ, Julia
12:05	Accidental composite dark matter in SU(5)-GUT theories	VERMA, Sonali
12:25	Dynamics of quarks and gauge fields in the lowest-energy states in QCD and QED	KOSHELKIN, Andrew
12:40	A fermionic portal to vector dark matter from new gauge sector	THONGYOI, Nakorn

**Astroparticle Physics and Cosmology - Room 8 (Blu) (11:15 - 13:00)**

-Conveners: Guenter Sigl; Fabio Finelli

time	title	presenter
11:15	The LiteBIRD mission	PAOLETTI, Daniela
11:30	Redshift evolution of cosmic birefringence in CMB anisotropies	GALAVERNI, Matteo
11:45	Cosmic Birefringence: Cross-Spectra and Cross-Bispectra with CMB Anisotropies	GRECO, Alessandro
12:00	DarkHistory NN: Computing early universe exotic energy injection imprints with Neural Network	SUN, Yitian
12:15	Relativistic Relics from the Primordial Bath: QCD Axion	HAJKARIM, Fazlollah

**Heavy Ions - Room 3 (Verde) (11:15 - 13:00)**

-Conveners: Martin Spousta

time	title	presenter
11:15	Nuclear modification of anti-kT jets from R=0.2 to R=1.2 with the CMS detector	ROLAND, Christof
11:30	Searching for jet quenching effect using high-multiplicity inclusive jet and h+jet semi-inclusive jet in pp collisions with ALICE	KOTLIAROV, Artem
11:50	Multipartonic cascades in expanding media	ADHYA, Souvik
12:05	The sPHENIX experiment at RHIC	SARSOUR, Murad
12:25	eA and high parton densities at the LHeC and FCC-he	ARMESTO, Néstor
12:40	A tool for automated perturbative cross section computations for nucleus+nucleus reactions at next-to-leading order using the MadGraph5_aMC@NLO framework	SAFRONOV, Anton

**Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (11:15 - 13:00)**

-Conveners: Alice Ohlson; Marco Pappagallo

time	title	presenter
11:15	Pseudo- and quasi-PDFs in the BFKL approximation	CHIRILLI, Giovanni Antonio
11:30	Neutral meson measurements in ALICE in pp collisions at $\sqrt{s} = 13$ TeV	KOENIG, Joshua Leon
11:45	Constraining hadronization with prompt and non-prompt charm baryons in small collision systems with ALICE at the LHC	ZHU, Jianhui
12:00	Probing hadronization with flavor correlations of leading particles in jets	CHIEN, Yang-Ting
12:15	Observation of simultaneous production of 3 J/psi mesons in pp collisions	MEJIA GUISAO, Jhovanny Andres
12:30	Jet fragmentation and QCD measurements at LHCb	COOKE, Naomi

**Neutrino Physics - Room 2 (Italia) (11:15 - 13:00)**

-Conveners: Alessandra Tonazzo

time	title	presenter
11:15	Heavy neutrino production at the FCC-ee: Dirac or Majorana?	DREWES, Marco
11:30	Measuring neutrino beam flux with NA61/SHINE	ZIMMERMAN, Eric D
11:45	Status of the ANNIE experiment	NIESLONY, Michael
12:00	ENUBET: the first monitored neutrino beam	BRANCA, Antonio
12:15	Status of NA65(DsTau) data taking and analysis	GULER, Ali Murat
12:30	DUNE The Deep Underground Neutrino Experiment	BOOTH, Alexander BOOTH, Alexander
12:45	The DUNE Near Detector	BATTISTI, Federico

**Top quark and EW Physics - Room 4 (Rossa) (11:15 - 13:00)**

-Conveners: Matteo Negrini; Malgorzata Worek

time	title	presenter
11:15	Searches for rare top quark decay and BSM top interactions in CMS	MENG, Lu
11:30	Searches for FCNC interactions of the top quark with the ATLAS experiment at the LHC	XIA, Mingming
11:45	KKMChh: Matching CEEX Photonic ISR to a QED-Corrected Parton Shower	YOST, Scott
12:05	Probing the Weak Mixing Angle at high energies at the LHC	VAZZOLER, Federico
12:20	Two-loop QED corrections to the di-muon production in e+ e- collisions, and related processes	RONCA, Jonathan
12:40	Overview of theoretical precision of future e+e- colliders	WARD, Bennie

**Top quark and EW Physics - Room 4 (Rossa) (14:30 - 16:30)**

-Conveners: Malgorzata Worek; Ken Mimasu

time	title	presenter
14:30	Vector boson scattering results in CMS	HADDAD, Yacine
14:45	Measurements of multi-boson production at ATLAS	BLUMENSCHNEIN, Ulla
15:05	Multiboson production in CMS	VISCHIA, Pietro
15:20	Vector boson scattering from gauge invariant perturbation theory	RIEDERER, Bernd
15:35	A sensitivity study of VBS and diboson WW to dimension-6 EFT operators at the LHC	BOLDRINI, Giacomo
15:50	EFT interpretations in top quark events in CMS	GOLDOUZIAN, Reza
16:05	Complete study of four top quarks production at the LHC in the SMEFT	EL FAHAM, Hesham

**Heavy Ions - Room 3 (Verde) (14:30 - 16:30)**

-Conveners: Yvonne Pachmayer

time	title	presenter
14:30	Charm production: constraint to transport models and charm diffusion coefficient with ALICE	CATALANO, Fabio
14:45	Study of charm quark diffusion with jet- $D^0$ angular correlation in heavy ion collisions with CMS	WANG, Jing
15:00	Measurement of non-prompt and prompt $D^0$ azimuthal anisotropy in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with CMS	STOJANOVIC, Milan
15:20	Beauty production in heavy-ion collisions with ALICE at the LHC	ZHANG, Biao
15:35	Flavor dynamics and partonic energy loss studies with b-jet shapes measurements in pp and PbPb collision data from CMS	NGUYEN, Matthew
15:55	Studies of beauty hadronization and in-medium energy loss with B+ and Bs spectra	SHENG, Tzu-An
16:10	Transport coefficients of heavy mesons in a thermal medium	TORRES-RINCON, Juan

**Technology and Industrial Applications - Room 7 (Gialla) (14:30 - 16:30)**

-Conveners: Hucheng Chen

time	title	presenter
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14:30	Innovation Ecosystems: The ATTRACT Example	GARCIA TELLO, Pablo
14:45	A new detector to muon tomography for glaciers melting monitoring	RABAGLIA, Sara
15:00	Multipurpose J-PET detector for tests of discrete symmetries and medical imaging	SHIVANI, Shivani SHIVANI, Shivani
15:15	Quantifying calcium concentration in living cells through detection of photoluminescence single photon trails	VESCO, Guglielmo
15:30	Worldwide industrial developments for compact accelerators based on the Nb3Sn superconducting radiofrequency (SRF) technology.	GRIGORY, Eremeev
15:45	A Silicon-photomultiplier based random bit streamer I	CACCIA, Massimo
16:00	Superconducting radio frequency technology enabling new transformative applications in QIS and dark matter searches	GRASELLINO, Anna
16:15	Power electronics in HEP experimental caverns	GIORDANO, Ferdinando

### **Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (14:30 - 16:30)**

-Conveners: Maria Ubiali; Giovanni Abbiendi

time	title	presenter
14:30	Vector boson associated with jets in CMS	GRAS, Philippe
14:50	Measurements of W and Z boson production in association with heavy flavor at ATLAS	GIACOBBE, Benedetto
15:05	Linear Power Corrections in Collider Processes	LIMATOLA, Giovanni
15:20	Drell-Yan lepton-pair production: qT resummation at N3LL and fiducial cross section at N3LO	FERRERA, Giancarlo
15:35	Determination of the strong-coupling constant from the Z-boson transverse-momentum distribution	CAMARDA, Stefano
15:50	The strong coupling at the tau mass scale from a new vector isovector spectral function	BOITO, Diogo
16:05	QCD corrections to Wbb production at the LHC	HARTANTO, Heribertus Bayu

### **Astroparticle Physics and Cosmology - Room 8 (Blu) (14:30 - 16:30)**

-Conveners: Sadakazu Haino; Mercedes Paniccia

time	title	presenter
14:30	Gravitational-wave event validation by Advanced LIGO and Advanced Virgo detectors. Procedures and challenges for the upcoming observing runs	DI RENZO, Francesco
14:45	Impacts of the external environment on the Virgo detector during the third Observing Run (O3: April 2019 – March 2020)	ARNAUD, Nicolas
15:00	Revealing the Cosmic History with Gravitational Waves	TAMARIT, Carlos
15:15	Very Special Linear Gravity: A Gauge Invariant Graviton Mass	SANTONI, Alessandro
15:30	Gravitational-wave cosmology with dark sirens: state of the art and perspectives for 3G detectors	MANCARELLA, Michele
15:45	Astrometry for Gravitational-Wave Detection in the 10 nHz– $\mu$ Hz Band	FEDDERKE, Michael A.

### **Detectors for Future Facilities, R&D, novel techniques: Joint session with Operation, Performance and Upgrade - Room 6 (Bianca) (14:30 - 16:30)**

-Conveners: Gianluigi Cibinetto; Mogens Dam

time	title	presenter
14:30	The Silicon Vertex Detector of the Belle II Experiment	LAUTENBACH, Klemens
14:50	Development and Performance of the Belle II DAQ Upgrade	ZHOU, Qi-Dong
15:10	The Belle II Upgrade Program	KRIZAN, Peter
15:30	ALICE FoCal	RAUCH, Max
15:50	A truly cylindrical inner tracker for ALICE	MAGER, Magnus
16:10	ALICE 3	JACAZIO, Nicolo'

### **Higgs Physics - Room 5 (Aporio) (14:30 - 16:30)**

-Conveners: Maria Cepeda; Karsten Köneke

time	title	presenter
14:30	Double Higgs production at CMS	BURY, Florian
14:45	Search for resonant and nonresonant di-Higgs boson production at CMS using jet substructure techniques	D'AMANTE, Valeria
15:00	Probing the nature of electroweak symmetry breaking with Higgs boson pairs in ATLAS	CORTES GONZALEZ, Arely
15:15	Constraining the Higgs boson self-coupling in a combined measurement of single and double Higgs boson channels at the ATLAS experiment	D'AMICO, Valerio
15:30	Recent HL-LHC projections from CMS	PUROHIT, Arnab
15:45	Prospects for single- and di-Higgs measurements at the HL-LHC with the ATLAS experiment	METE, Tulin
16:00	Imprint of quark flavor violating SUSY in h(125) decays at future lepton colliders	HIDAKA, Keisho
16:15	Effective Field Theory interpretations of Higgs boson measurements by the ATLAS experiment	KORTNER, Sandra

### **Dark Matter - Room 11 (Magenta A) (14:30 - 16:30)**

-Conveners: Priscilla Pani

time	title	presenter
14:30	The Higgs boson as a tool to search for Dark Matter in CMS	KHURANA, Raman
14:50	Search for Dark Matter with mono-X Signatures in CMS	KUMAR, Deepak
15:10	Dark Matter searches at LHCb	JOHNSON, Daniel
15:30	Searches for dark matter with the ATLAS detector	SAIMPERT, Matthias
15:50	Search for invisible particles produced in association with single-top-quarks with the ATLAS detector using Run-2 data	NAVARRO GONZÁLEZ, Josep
16:10	Recent dark-sector results at Belle II	GRAZIANI, Enrico

### **Neutrino Physics - Room 2 (Italia) (14:30 - 16:30)**

-Conveners: Matteo Tenti

time	title	presenter
14:30	Sensitivity of DUNE to low energy physics searches	CUESTA, Clara
14:45	An absolute $\nu$ mass measurement with the DUNE experiment	POMPA, Federica
15:00	ProtoDUNE Physics and Results	CALCUTT, Jacob
15:15	Status and Recent Progress towards the second DUNE Far Detector Module	NAYAK, Nitish
15:30	Exploring NSI sensitivities for T2HK and DUNE	GIRI, Anjan
15:45	Probing scalar Non Standard Interactions at DUNE, T2HK and T2HKK	MEDHI, Abinash
16:00	The ESSnuSB High Intensity Neutrino Super Beam	BAUSSAN, Eric
16:15	nuSTORM; Neutrinos from Stored Muons	LONG, Kenneth

### **Quark and Lepton Flavour Physics - Room 9 (Indaco) (14:30 - 16:30)**

time	title	presenter
14:30	Mixing and indirect CP violation in charm mesons at LHCb	EK-IN, Surapat
14:47	Study of Branching fraction and CP Asymmetry of charm mesons at Belle	SANGAL, Aman
15:04	Direct CPV in charm hadrons at LHCb	MACCOLINI, Serena
15:21	Rare charm decays at LHCb	FONTANA, Marianna
15:38	Hadronic D decays at BESIII	LAVANIA, Anita
15:55	Baryon/Lepton number violation searches at BESIII	WANG, Tengjiao
16:12	Cabibbo angle anomalies: indication of new physics at TeV scale?	BELFATTO, Benedetta

### **Beyond the Standard Model - Room 10 (Magenta B) (14:30 - 16:30)**

-Conveners: Lesya Shchutska; Michal Malinsky

time	title	presenter
14:30	Constraints on leptoquarks from lepton-flavour-violating tau-lepton processes	MONSALVEZ-POZO, Kevin
14:45	Triple-leptoquark interactions for tree- and loop-level proton decays	FAJFER, Svjetlana
15:00	Phenomenology of TeV-scale scalar Leptoquarks in the EFT	WUDKA, Jose
15:15	Multi-lepton probes of new physics	BAR-SHALOM, Shaouly
15:30	High-pT probes of 4321 and beyond	FAROUGHY, Darius
15:45	Framework for neutrino masses and flavor anomalies	THAPA, Anil
16:00	Exploiting the discovery potential of the LHC data using the Data Directed Paradigm	BRESSLER, Shikma
16:15	Search for new resonances coupling to third generation quarks at CMS	DE LEO, Ksenia

### **Accelerators: Physics, Performance, and R&D for future facilities - Room 12 (Celeste) (14:30 - 16:30)**

-Conveners: Gaku Mitsuka

time	title	presenter
14:30	The FCC-ee Preinjector and the PSI Positron Production at SwissFEL	CRAIEVICH, Paolo
14:45	Overview of the LHeC and FCC-he accelerator concepts	HOLZER, Bernhard
15:05	PERLE: The development of a multi-turn, high current ERL	KAABI, Walid
15:20	The Electron-Ion Collider: an overview	VERDÚ-ANDRÉS, Silvia
15:40	Status and challenges of the Future Circular Hadron Collider FCC-hh	GIOVANNONZI, Massimo
16:00	Progress towards the CERN Gamma Factory	MARTENS, Aurelien

### **Accelerators: Physics, Performance, and R&D for future facilities - Room 12 (Celeste) (17:00 - 19:00)**

-Conveners: Vladimir Shiltsev

time	title	presenter
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17:00	Plans for future energy frontier accelerators to drive particle physics discovery	PASTRONE, Nadia
17:20	Machine-detector interface studies for a multi-TeV muon collider	CALZOLARI, Daniele
17:35	High Field Magnet Development for HEP in Europe – A Roadmap by the LDG HFM Expert Panel	AUCHMANN, Bernhard
17:50	High-resolution, low-latency, bunch-by-bunch feedback systems for nano-beam production and stabilization	BURROWS, Philip
18:05	A new method with minimized systematic error sources to detect axion dark matter in storage rings using an rf Wien filter	KIM, On
18:20	Storage ring proton EDM comprehensive systematic errors study for $10^{-29}$ e-cm level.	SEMERTZIDIS, Yannis
18:35	Channeling at accelerators high-energy frontier and future developments from GALORE	ROMAGNONI, Marco

### **Beyond the Standard Model - Room 10 (Magenta B) (17:00 - 19:00)**

-Conveners: Lesya Shchutska; Sarah Williams

time	title	presenter
17:00	Searches for new phenomena in final states with 3rd generation quarks using the ATLAS detector	HEINRICH, Jochen Jens
17:15	Single production of vector-like quarks	DEANDREA, Aldo
17:30	Searches for vector-like quarks and leptons at CMS	BONILLA, Johan
17:45	WrapUp	
18:00	Soft gluon resummation for associated squark-gaugino production at the LHC	NEUWIRTH, Alexander Puck
18:15	Searches for compressed SUSY scenarios with the CMS experiment	FLOWERS, Zachary
18:30	Searches for electroweak production of supersymmetric particles with the ATLAS detector	NOBE, Takuya
18:45	Electroweak phase transition in the $Z_3$ -invariant NMSSM: implications of LHC and dark matter searches and prospects of detecting the gravitational waves	ROY, Subhojit

### **Top quark and EW Physics - Room 4 (Rossa) (17:00 - 19:00)**

-Conveners: Martijn Mulders; Ken Mimasu

time	title	presenter
17:00	High precision measurement of the W-boson mass at CDFII	HAYS, Chris
17:15	W mass measurement at LHCb	RAMOS PERNAS, Miguel
17:30	Status of the W-boson mass averaging project	AMOROSO, Simone
17:45	Status of the global electroweak fit with Gfitter in the light of new precision measurements	KOGLER, Roman
18:00	Global analysis of electroweak data in the Standard Model and beyond	PIERINI, Maurizio
18:15	SMEFT Analysis of the W boson mass in light of the recent CDF measurement	BAGNASCHI, Emanuele Angelo
18:30	EWK precision measurements at FCC-ee	PAUS, Christoph
18:45	Electroweak physics at CEPC	LIU, Bo

### **Neutrino Physics - Room 2 (Italia) (17:00 - 19:00)**

-Conveners: Laura Patrizii

time	title	presenter
17:00	High-energy neutrino measurements with FASERnu	TAKUBO, Yosuke
17:15	SND@LHC - A new Scattering and Neutrino Detector at the LHC	ZAFFARONI, Ettore
17:30	Spontaneous origin of CP phase in the neutrino sector	PRAMANICK, Rohan
17:45	Analytical treatment of neutrino oscillation and decay in matter	CHATTOPADHYAY, Dibya S.
18:00	A New Results of AMoRE-I Experiment	KIM, HAN BEOM
18:15	The status of the HOLMES experiment	ORIGO, Luca
18:30	Recent results from the ECHo experiment	GASTALDO, Loredana
18:45	Neutrino, DM, and Axion Physics with IsoDAR @ Yemilab	THOMPSON, Adrian

### **Dark Matter - Room 11 (Magenta A) (17:00 - 19:00)**

-Conveners: Priscilla Pani

time	title	presenter
17:00	The Light Dark Matter eXperiment, LDMX	HERDE, Hannah
17:20	New approach to DM searches with mono-photon signature	MEKALA, Krzysztof
17:40	Phenomenology of the Dark Matter sector in the Two Higgs Doublet Model with Complex Scalar Singlet extension	DUTTA, Juhi
18:00	$(g-2)_{e,\mu}$ and strongly interacting dark matter with collider implications	KHAN, Sarif
18:20	Z'-mediated Majorana dark matter: complementarity of direct-detection and LHC searches	FIASCHI, Juri
18:40	Cosattering in micrOMEGAs: a case study for the singlet-triplet dark matter model	ALGUERO, Gaël

### **Quark and Lepton Flavour Physics - Room 9 (Indaco) (17:00 - 19:00)**



time	title	presenter
17:00	Precision measurements of rare pion decays with the PIONEER experiment	RIES, Dieter
17:17	Precise measurement of the Decay $K^\pm \rightarrow \pi^0 \pi^0 \mu^\pm \nu$	MADIGOZHIN, Dmitry
17:34	Searches for lepton flavour and lepton number violating $K^+$ decays at the NA62 experiment	DUK, Viacheslav
17:51	Status of the $KL \rightarrow \pi^0 \nu$ number study at the J-PARC KOTO experiment	TUNG, Yu-Chen
18:08	A new $K_S^0 \rightarrow \pi^0 e^+ e^- \nu$ branching fraction measurement from KLOE-2	PASSERI, Antonio
18:25	Precision tests of Quantum Mechanics and CPT symmetry with entangled neutral kaons at KLOE	CZERWIŃSKI, Eryk

### **Astroparticle Physics and Cosmology - Room 8 (Blu) (17:00 - 19:15)**

-Conveners: Guenter Sigl; Elisa Bernardini

time	title	presenter
17:00	Unique Properties of Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer	YAN, Qi
17:15	Unique Properties of Secondary Cosmic Rays: Results from the Alpha Magnetic Spectrometer	OLIVA, Alberto
17:30	Unique Properties of the 3rd Group of Cosmic Rays: Results from the Alpha Magnetic Spectrometer	CHEN, Yao
17:45	Properties of Cosmic Deuteron and $^3\text{He}$	DELGADO, Carlos
18:00	Properties of Cosmic Beryllium Isotopes	WEI, Jiahui
18:15	Anisotropy of Protons and Light Primary Nuclei in Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS	MOLERO GONZALEZ, Miguel
18:30	Unique Properties of Daily Proton Fluxes up to 100 GV	CONSOLANDI, cristina
18:45	Precision Measurement of low energy positron fluxes by AMS	GÁMEZ LÓPEZ, Carmen
19:00	Spectra of Cosmic Ray Fluorine, Sodium and Aluminum and the Hints of Low-energy Excesses	MASI, Nicolò

### **Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors - Room 6 (Bianca) (17:00 - 19:00)**

-Conveners: Felix Reidt; Carla Sbarra; Petra Merkel

time	title	presenter
17:00	The Phase 2 upgrade of the CMS Inner tracker	SANCHEZ CRUZ, Sergio
17:20	The Phase-2 upgrade of the CMS Outer Tracker	LI, Jack
17:40	ATLAS ITk Pixel Detector Overview	D'AURIA, Saverio
18:00	The ATLAS ITk Strip Detector System for the Phase-II LHC Upgrade	DIEZ CORNELL, Sergio
18:20	Prototyping Serial Powering with RD53A and ITkPixV1	HINTERKEUSER, Florian
18:40	Expected tracking performance of the ATLAS Phase-II Inner Tracker Upgrade	STREBLER, Thomas

### **Heavy Ions - Room 3 (Verde) (17:00 - 19:00)**

-Conveners: Yen-Jie Lee

time	title	presenter
17:00	Thermal radiation and direct photon production in Pb-Pb and pp collisions with dielectrons in ALICE	SEKIHATA, Daiki
17:15	Very low- $p_T$ di-muon production in peripheral Au+Au collision at 200 GeV at STAR	LI, Ziyang
17:30	Electroweak-boson production from small to large collision systems with ALICE at the LHC	ZHAO, Mingrui
17:50	Wigner distributions of photons in nuclei and the centrality dependence of $\gamma\gamma$ processes	SZCZUREK, Antoni KLUSEK-GAWENDA, Mariola SCHAEFER, Wolfgang
18:05	Diffraction and exclusive processes in heavy ion collisions with CMS	BALDENEGRO BARRERA, Cristian
18:25	$J/\psi$ photoproduction and the production of dileptons via photon-photon interactions in hadronic Pb-Pb collisions measured with ALICE	BAILHACHE, Raphaelle
18:40	Direct photon production and correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ALICE experiment	SAS, Mike

### **Technology and Industrial Applications - Room 7 (Gialla) (17:00 - 19:00)**

-Conveners: Magnus Mager

time	title	presenter
17:00	Novel techniques for high density channel $\gamma$ measurements based on SiPM	PERRI, Marco
17:15	Towards efficient neutron spectroscopy with a Nitrogen-filled Spherical Proportional Counter	MANTHOS, Ioannis
17:30	MAPS for x-ray detection: trading high efficiency for low cost	GIUBILATO, Piero
17:45	ORIGIN, an EU project targeting real-time 3D dose imaging and source localization in brachytherapy: commissioning and first results of a 16-sensor prototype.	GIAZ, Agnese
18:00	Development of a new compact and 2D-multiplexed Time Projection Chamber for muon tomography	LEHURAUX, Marion
18:15	The Bergen proton-CT	ROEHRICH, Dieter
18:30	Quantum computing for particle physics applications	TAVERNELLI, Ivano

**Higgs Physics - Room 5 (Aorio) (17:00 - 19:00)****-Conveners: Sylvie Braibant; Fabio Maltoni**

time	title	presenter
17:00	Impact of radiative corrections on decays of the charged and CP-odd Higgs bosons	AIKO, Masashi
17:15	Electroweak phase transition in the nearly aligned Higgs effective field theory	TANAKA, Masanori
17:30	Exploring SMEFT operators through single top-quark production associated with the Higgs boson at the LHC	ROY, Arnab
17:45	Electroweak baryogenesis in aligned two Higgs doublet model	MURA, Yushi

**Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (17:00 - 19:05)****-Conveners: Maria Ubiali; Alice Ohlson**

time	title	presenter
17:00	Inclusive jet measurements in CMS	CONNOR, Patrick
17:15	QCD and SMEFT analysis of double-differential inclusive jet cross sections at 13 TeV (CMS)	LIPKA, Katerina
17:30	Precision measurements of jet and photon production at the ATLAS experiment	ROLOFF, Jennifer
17:45	Probing the initial state with isolated photon production in small collision systems with ALICE	XU, ran
18:00	Event Shape and Jet Substructure Measurements in high $Q^2$ Deep Inelastic Scattering at HERA	ZHANG, Zhiqing
18:20	First measurement of anti-kT jet spectra and jet substructure using the archived ALEPH e+e- data at 91.2 GeV	CHEN, Yi
18:35	Linear power corrections to e+e- shape variables in the three-jet region	OZCELIK, Melih Arslan
18:50	High-precision QCD physics at FCC-ee	GIULI, Francesco