

## Saturday, 9 July 2022

### Astroparticle Physics and Cosmology - Room 8 (Blu) (09:00 - 10:45)

-Conveners: Elisa Bernardini

time	title	presenter
09:00	Cosmological radiation density with non-standard neutrino physics	PASTOR, Sergio
09:15	Searching for dark radiation at the LHC	MORANDINI, Alessandro
09:30	Strong interactions in Cosmology: strong CP problem, neutrino mass, Dark Matter, Dark Energy and gravitational radiowaves	PASECHNIK, Roman
09:45	Highlights from the ANTARES neutrino telescope	SPURIO, Maurizio
10:00	Neutrinos from core-collapse supernovae at KM3NeT	GOOS, Isabel
10:15	Recent results from the Baikal-GVD neutrino telescope	ZABOROV, Dmitry
10:30	Probing hadronic interactions using the latest data measured by the Pierre Auger Observatory	TRIMARELLI, Caterina

### Neutrino Physics - Room 2 (Italia) (09:00 - 10:45)

-Conveners: Annarita Margiotta

time	title	presenter
09:00	First significant measurement of the Earth's orbital parameters with solar neutrinos in Borexino	BIONDI, Riccardo
09:15	Study of antineutrino fluxes and other non-solar physics results with Borexino	ZAVATARELLI, Sandra
09:30	Dark rate reduction with machine learning techniques for the Hyper-Kamiokande experiment	LANGELLA, Aurora
09:45	Measuring neutrino oscillations precisely: Reducing Systematics in Water Cherenkov Detectors With the Water Cherenkov Test Experiment	ANTHONY, Lauren
10:00	Atmospheric Neutrino Oscillations with the Super-Kamiokande detector	POSIADALA-ZEZULA, Magdalena
10:15	Atmospheric neutrino oscillation studies with KM3NeT/ORCA	PESTEL, Valentin
10:30	Searches for neutrino physics beyond the standard model with KM3NeT/ORCA6	CARRETERO, Victor

### Heavy Ions - Room 5 (Aorio) (09:00 - 10:45)

-Conveners: Giulia Manca

time	title	presenter
09:00	New results on the heavy-flavor and quarkonia measurements with ATLAS	ZOU, Wenkai
09:15	New results on heavy flavor and quarkonia in heavy ion collisions with CMS	DAMAS, Florian
09:35	$\psi(2S)$ production and nuclear modification factor in nucleus-nucleus collisions with ALICE	PAUL, Biswarup
09:50	LHCb measurements of Quarkonia Production in Ultraperipheral PbPb collisions and Z production in $pPb$ collisions	LI, Hengne
10:10	Quarkonium polarization in Pb-Pb and pp collisions with ALICE	DING, Yanchun
10:25	Global analysis of nuclear PDFs with LHC vector boson, single inclusive hadron and heavy quark data	KLASEN, Michael

### Education and Outreach - Room 3 (Verde) (09:00 - 10:45)

-Conveners: Tapan Nayak

time	title	presenter
09:00	Outreach and educational activities of ALICE in the times of the pandemic	HATZIFOTIADOU, Despina
09:15	International Masterclasses: Forward from Pandemic	BILOW, Uta
09:30	Telling kids about Physics: the use of narration in interactive online communication formats for schools	COLLÀ RUVOLO, Cecilia
09:45	Outreach, Education and Communication Initiatives at the Pierre Auger Observatory	CATALDI, Gabriella
10:00	The INFN-LNF Bruno Touschek Visitor Centre: a hub for public engagement activities	BERTELLI, Susanna
10:15	Outreach activities for KEK 50th anniversary	TAKAHASHI, Shota
10:30	New educational activity about CMS air pads for education labs at CERN Science Gateway	THILL, Patrick

### Beyond the Standard Model - Room 10 (Magenta B) (09:00 - 10:45)

-Conveners: Antonio Sidoti; Sarah Williams

time	title	presenter
09:00	Improving LHC sensitivity to charged and neutral broad resonances of new gauge sectors with Drell-Yan measurements	FIASCHI, Juri
09:15	Searches for new phenomena in leptonic final states using the ATLAS detector	LI, Quanyin
09:30	Searches in CMS for new physics in final states with leptons	KARACHEBAN, Olena
09:45	Searches for new phenomena in hadronic final states using the ATLAS detector	ZHANG, Dengfeng
10:00	Searches in CMS for new physics in final states with jets	TZIAFERI, Eirini
10:15	Searches for leptoquarks with the ATLAS detector	AGARAS, Merve Nazlim

10:30	Searches in CMS for new physics with low mass mediators	MUKHERJEE, Swagata
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### **Computing and Data handling - Room 12 (Celeste) (09:00 - 10:45)**

-Conveners: Graeme A Stewart; Daniele Bonacorsi

time	title	presenter
09:00	The IRIS-HEP Analysis Grand Challenge	HELD, Alexander
09:15	EDM4hep - a common event data model for HEP experiments	GAEDE, Frank
09:30	Key4hep Project Status Update	VOLKL, Valentin
09:45	Grand Challenge of Software Training in HEP	DECONINCK, Wouter
10:00	FAIR Principles for data and AI models in high energy physics research and education	ROY, Avik
10:15	Gauss and Gaussino: the LHCb simulation software and its new experiment agnostic core framework.	MAZUREK, Michał

### **Detectors for Future Facilities, R&D, novel techniques - Room 4 (Rossa) (09:00 - 10:45)**

-Conveners: Jianchun Wang; Daniela Daniela Bortoletto

time	title	presenter
09:00	Characterization of the transient response of diamond sensors to collimated, sub-picosecond, 1 GeV electron bunches	JIN, Yifan
09:15	BULLKID - Bulky and low-threshold kinetic inductance detectors	VIGNATI, Marco
09:30	Forward silicon tracking detector developments for the future Electron-Ion Collider	LI, Xuan
09:45	Picosecond timing resolution with 3D trench silicon sensors	BORGATO, Federica
10:00	Production of Large Area Picosecond Photo-Detectors – LAPPDTM: 2022 Status Update	SHIN, Shawn
10:15	Capacitively Coupled LAPPDs with 2D Pixelated Readout Planes for Ring Imaging Cherenkov Detectors in High Energy and Nuclear Physics Experiments	KISELEV, Alexander

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

time	title	presenter
09:00	Radiative and electroweak-penguin $B \rightarrow S \gamma$ decays at Belle	KANG, Kookhyun
09:17	New physics constraints from angular analyses of B meson decays in CMS	BOLETTI, Alessio
09:34	Flavor Phenomenology with Scalar Leptoquarks	SUMENSARI, Olcyr
09:51	Electroweak Penguin Decays at LHCb	CELANI, Sara
10:08	Probing CP violation in semi-leptonic decays through time-evolution	NOVOA BRUNET, Martin Rodrigo

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

-Conveners: Tiziano Camporesi; Carla Sbarra; Felix Reidt

time	title	presenter
09:00	New trigger strategies for CMS during Run 3	FONTANESI, Elisa
09:18	ATLAS Trigger system for Run 3	THEMISTOKLEOUS, Neofytos
09:35	Overview of the HL-LHC Upgrade for the CMS Level-1 Trigger	RADBURN-SMITH, Benjamin
09:53	The Muon Trigger of the ATLAS experiment: performance and improvements for Run 3	VENTURA, Andrea
10:10	The performance of the ATLAS Inner Detector tracking trigger in high pileup collisions at 13 TeV at the Large Hadron Collider (Run-2) and plans for Run-3	SIMPSON, Harry
10:28	The global feature extractor: A new component of the Level-1 Calorimeter trigger Phase-I upgrade for the ATLAS experiment	TOSCIRI, Cecilia

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

-Conveners: Silvia Penati; Davide Fioravanti

time	title	presenter
09:00	Towards a beyond the Standard Model model with elementary particle non-perturbative mass generation	ROSSI, Giancarlo
09:15	An exceptional G(2) extension of the Standard Model from an algebraic conjecture: implications for the strong sector and dark matter	MASI, Nicolò
09:30	SU(5) aGUT: a minimal asymptotic grand unification model	CACCIAPAGLIA, Giacomo
09:45	Possible discrepancies in the spectrum of GUT models	DOBSON, Elizabeth
10:00	Phenomenology of an N=1 split-like model resulting from the dimensional reduction of an N=1, 10D E(8) gauge theory over a modified flag manifold	PATELLIS, Gregory
10:15	Modular symmetries and the flavor problem	MELONI, Davide
10:30	Electroweak Flavour Unification	DAVIGHI, Joe

### **Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (09:00 - 10:45)**

-Conveners: Gunar Schnell; Maria Ubiali

time	title	presenter
09:00	Global extraction of unpolarized quark TMDs at N3LL	BOZZI, Giuseppe
09:15	Non-perturbative contributions to vector boson transverse spectra: PDF bias and flavor dependence in TMD distributions	HAUTMANN, Francesco
09:30	Transverse momentum dependent splitting functions in the Parton Branching method	KEERSMAEKERS, Lissa
09:45	Latest Hermes results on azimuthal single- and double-spin asymmetries in semi-inclusive deep-inelastic scattering by transversely polarized protons	PAPPALARDO, Luciano Libero
10:00	Measurement of lepton-jet correlation in deep-inelastic scattering with the H1 detector using machine learning for unfolding	XU, YAOYUAN
10:15	Azimuthal correlations in high pT processes with the TMD parton branching method at NLO	VAN KAMPEN, Mees
10:30	$\Lambda$ polarization and gluon TMDs in semi-inclusive DIS at low and high transverse momentum	PISANO, Cristian

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

-Conveners: Marco Selvi

time	title	presenter
09:00	Sub-GeV Dark Matter search with CRESST-III	PATTAVINA, Luca
09:20	Searching for Sub-GeV Dark Matter with SENSEI	BOTTI, Ana Martina
09:40	Status of the DAMIC-M dark matter experiment	CASTELLO-MOR, Nuria
10:00	Searching for Light Dark Matter with Aligned Carbon Nanotubes: the ANDROMEa Project	CAVOTO, Gianluca
10:20	NEWS-G searches for light dark matter: Results with a hydrogen-rich target	NIKOLOPOULOS, Konstantinos

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

-Conveners: John Conway; Niki Saoulidou

time	title	presenter
11:15	Searches for feebly interacting new particles at FCC-ee	SFYRLA, Anna
11:30	Detecting long-lived particles trapped in detector material at the LHC	ALIMENA, Juliette
11:45	Exploring the lifetime and cosmic frontier with the proposed MATHUSLA experiment	ALPIGANI, Cristiano
12:00	Searches in CMS for long-lived particles and other non-conventional signatures	FERNÁNDEZ MADRAZO, Celia
12:15	Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector	LONGARINI, Iacopo
12:30	The MoEDAL-MAPP Experiment at the LHC – The Continuation of the LHC's 1st Dedicated Search Experiment	PINFOLD, James
12:45	WrapUp	

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

-Conveners: Annarita Margiotta

time	title	presenter
11:15	Hierarchy and NSI study of P2O in its Optimal Configuration	SINGHA, Dinesh Kumar
11:30	Prospects and recent results from KM3NeT/ARCA	KALACZYNSKI, Piotr
11:45	Searching for Astrophysical Tau Neutrinos in the Andes	ZHELNIN, Pavel
12:00	The NEXT-100 time projection chamber and electroluminescent region	ALMAZAN, Helena
12:15	Measurement of the $^{136}\text{Xe}$ $\beta\beta$ half-life with NEXT-White	REDWINE, Adam
12:30	R&D toward future barium tagging phases of the NEXT program	HERRERO GOMEZ, Pablo
12:45	Neutrino physics with the PandaX-4T detector	HAN, Ke

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

-Conveners: Marco Pappagallo; Alice Ohlson

time	title	presenter
11:15	Excited charm hadron spectroscopy at LHCb	CHEN, Chen
11:35	Studies of conventional doubly heavy hadrons at LHCb	SPRADLIN, Patrick
11:50	Study of charmonia and bottomonia at Belle	PINNA ANGIANI, Gianluca
12:05	Spectroscopy and decays of b-hadrons at LHCb	AO, Dong
12:20	Amplitude analyses of charm decays at LHCb	GONCALVES ABRANTES, Fernanda
12:35	Shapes and sizes of diquarks in lattice QCD	FRANCIS, Anthony

#### **Heavy Ions - Room 5 (Aorio) (11:15 - 13:00)**

-Conveners: Yvonne Pachmayer

time	title	presenter
11:15	Quarkonia production and elliptic flow in small systems measured with ALICE	COQUET, Maurice

11:30	First measurement of $\Upsilon(3S)$ meson in PbPb collision.	LEE, Soohwan
11:50	Collision energy and system size dependence of $J/\psi$ production in heavy-ion collisions with the STAR experiment	WANG, Yan
12:05	Measurement of the inclusive, prompt and non-prompt $J/\psi$ production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE	SHARMA, Himanshu
12:25	Heavy flavor and exotic production at LHCb	WANG, Jianqiao
12:40	Heavy-flavour meson and baryon production in high-energy nucleus-nucleus collisions	BERAUDO, Andrea

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

-Conveners: Elisa Bernardini; Fabio Finelli

time	title	presenter
11:15	The Euclid Mission	TROJA, Antonino
11:30	Euclid: performance on main cosmological parameter science	TUTUSAUS, Isaac
11:45	Euclid Legacy Science prospects	SORCE, Jenny
12:00	Baryon Acoustic Oscillations: difficulties, assumptions and a new promising cosmological standard ruler for the Euclid galaxy survey	ANSELMINI, Stefano
12:15	Multi-messenger studies with DESI	PALMESE, Antonella
12:30	Looking for dilaton fields in the Ly-alpha forest	HAMAIDE, Louis

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

-Conveners: Marco Selvi

time	title	presenter
11:15	Update on dark matter searches after five years of data taking in NaI crystals at COSINE-100	NEAL, Robert
11:35	Status and prospects for SABRE North	TOMEI, Claudia
11:55	The COSINUS dark matter search with cryogenic NaI detectors	EINFALT, Leonie
12:15	The NEWSdm experiment for directional dark matter searches	ASADA, Takashi
12:35	The CYGNUS Galactic Directional Recoil Observatory	BARACCHINI, Elisabetta

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

-Conveners: Carla Sbarra; Tiziano Camporesi; Felix Reidt

time	title	presenter
11:35	First performance of the real-time reconstruction at LHCb	CERVENKOV, Daniel
11:55	LHCb HLT1: Tracking and vertexing at 30MHz with GPUs	AGAPOPOULOU, Christina
12:15	LHCb HLT2: Real-time alignment, calibration, and software quality-assurance	SAUR, Miroslav
12:35	FELIX: the new ATLAS readout system from Run 3 to High Luminosity LHC	GOTTARDO, Carlo Alberto

### **Detectors for Future Facilities, R&D, novel techniques - Room 4 (Rossa) (11:15 - 13:00)**

-Conveners: Cornelia Wunderer; Felix Sefkow

time	title	presenter
11:15	TORCH, a novel time of flight detector for LHCb upgrade II	RADEMACKER, Jonas
11:30	Development of the time-of-flight particle identification for future Higgs factories	DUDAR, Bohdan
11:45	Design and construction of Cosmic Muon Veto for the mini-ICAL detector at IICHEP, Madurai	BHEESETTE, Satyanarayana
12:00	LIGHT-1: A 3U Cubesat Mission for the detection of Terrestrial Gamma-Ray Flashes	DI GIOVANNI, Adriano
12:15	Precision measurements of photosensor components for the Hyper-Kamiokande Outer Detector	SAMANI, Soniya
12:30	Development of an Optical Module for IceCube-Gen2	MAKINO, Yuya

### **Computing and Data handling - Room 12 (Celeste) (11:15 - 13:00)**

-Conveners: Andrew McNab; Daniele Bonacorsi

time	title	presenter
11:15	Calorimetry with Graph Neural Networks in CMS	ROTHMAN, Simon
11:30	MadFlow: automating Monte Carlo simulation on GPU for particle physics	CRUZ MARTINEZ, Juan Manuel
11:45	OpenForBC, the GPU partitioning framework	LEGGER, Federica
12:00	QCD tree amplitudes on modern GPUs: A case study for novel event generators	BOTHMANN, Enrico
12:15	Sustainable Cyberinfrastructure for Matrix Element Analyses through Deep Learning	NEUBAUER, Mark

### **Education and Outreach - Room 3 (Verde) (11:15 - 13:00)**

-Conveners: Tapan Nayak

time	title	presenter
11:15	Sharing ATLAS Science: communicating to the public	ANTHONY, Katarina

11:30	Experience with CMS Physics briefings	BLEKMAN, Freya
11:45	INFN ScienzaPerTutti: 20 years of science for society	OPPEDISANO, Chiara
12:00	The ASIMOV Prize for scientific publishing - HEP researchers trigger young people toward science	VENTURA, Andrea
12:15	Communicating the next collider	CHALMERS, Matthew
12:35	Discussion on future	

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

time	title	presenter
11:15	Rare Radiative decays at LHCb	VIEITES DÍAZ, María
11:32	Test of LF(U)V at CMS	RITI, federica
11:49	Lepton Flavour Violation at LHCb	BIAN, Lingzhu
12:06	The origin of flavour anomalies from neutrino properties	MORAIS, António
12:23	Recent Belle II results on electroweak penguins	GANIEV, Eldar
12:40	Imprint of SUSY in radiative B-meson decays	HIDAKA, Keisho

#### **Book Launch: When Cosmology meets the Arts and Philosophy - Room 7 (Gialla) (11:15 - 13:00)**

#### **Heavy Ions - Room 5 (Avorio) (14:30 - 16:30)**

-Conveners: Manuel Colocci

time	title	presenter
14:30	Exploring the hadronic phase of relativistic heavy-ion collisions with resonances in ALICE	DAS, Prottay
14:45	Multistrange Hyperon Production on Nuclear Targets	MERINO, Carlos
15:00	Study of the dynamics of the production of light nuclei in small systems with ALICE	BARIOGLIO, Luca
15:20	System-size dependence of particle production at mid- and forward rapidity with ALICE	MODAK, Abhi
15:35	Rescattering effects on resonances production in small systems with ALICE at the LHC	RUBINI, Nicola
15:55	ATLAS measurements of photon-photon fusion processes in Pb+Pb collisions	LANG, Valerie
16:10	Jet Measurements in Heavy Ion Collisions with the ATLAS Experiment	COLE, Brian

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

-Conveners: Lesya Shchutska; Michal Malinsky

time	title	presenter
14:30	Sifting through the SM for the hints of an ALP	BANDYOPADHYAY, Triparno
14:45	Search for an Axion-Like Particle in $B \rightarrow K a_s$ , with $a_s \rightarrow \gamma \gamma$ at BABAR.	LUSIANI, Alberto
15:00	Recent Results of the Coherent-CAPTAIN Mills Experiment	NEWMARK, Darcy
15:15	Constraining axion couplings with the JUNO detector	NATH, Newton
15:30	Probing new physics at the LUXE experiment	HUANG, Shan
15:45	Search for new particles at the ILC	BERGGREN, Mikael
16:00	Measuring neutrino dynamics in NMSSM with a right-handed sneutrino LSP at the ILC	LIU, Yi
16:15	Wrap Up	

#### **Education and Outreach - Room 3 (Verde) (14:30 - 16:30)**

-Conveners: Gwenhael de Wasseige

time	title	presenter
14:30	Innovations in teaching of the Physics and Astronomy laboratories	BEZNOSKO, Dmitriy
14:45	LA-CoNGA physics: an open science education collaboration between Latin America and Europe for High Energy Physics	NAVARRO, Gabriela
15:00	Incorporating creativity and interdisciplinarity in science teaching: The case of Art & Science across Italy"	SIMONE, Federica Maria
15:15	The Sketchbook and the Collider	NIKOLOPOULOS, Konstantinos
15:30	Report on REINFORCE EU-funded citizen's Science project (2019-2022)	KATSANEVAS, stavros
15:50	Round table on REINFORCE sub-projects	

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

-Conveners: Fabio Finelli; Chiara Caprini

time	title	presenter
14:30	Early Universe Cosmology with LISA	RICCIARDONE, Angelo
14:45	Cosmology with massive black hole binary mergers in the LISA era.	MANGIAGLI, Alberto

15:00	Searching for primordial features with LISA	FUMAGALLI, Jacopo
15:15	Novel Manifestations of Primordial Black Holes	TAKHISTOV, Volodymyr
15:30	Signature from Primordial Black Hole evaporation	CALABRESE, Roberta
15:45	Gravitational waves propagation as a probe of new fundamental physics	HAEGEL, Leïla

#### **Computing and Data handling - Room 12 (Celeste) (14:30 - 16:30)**

-Conveners: Frank Gaede; Daniele Bonacorsi

time	title	presenter
14:30	Quantum Machine Learning for b-jet identification	ZULIANI, Davide
14:45	Quantum clustering and jet reconstruction at the LHC	MARTÍNEZ DE LEJARZA, Jorge
15:00	Towards a hybrid operating system for quantum computers	CARRAZZA, Stefano
15:15	Imposing exclusion limits on new physics with machine-learned likelihoods	SANDÁ SEOANE, Rosa María
15:30	Interpretability of an Interaction Network for identifying $\$H \rightarrow b\bar{b}\$$ jets	ROY, Avik
15:45	Shared I/O Developments for Run 3 in the ATLAS Experiment	METE, Alaettin Serhan
16:00	Modernisation of the LHCb continuous integration build system	SZYMAŃSKI, Maciej

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

-Conveners: Giovanni Abbiendi; Marco Pappagallo

time	title	presenter
14:30	Recent CMS results on exotic resonances	YI, Kai
14:45	ATLAS results on exotic hadronic resonances	BOUHOVA-THACKER, Evelina
15:00	Studies of mesonic exotic states at LHCb	MA, Ruiting
15:15	Studies of pentaquark states at LHCb	NERI, Nicola
15:30	Recent XYZ results at BESIII	SPATARO, Stefano
15:50	Recent quarkonium results at Belle II	Ji, Qingping
16:05	Double charm tetraquark in $\$DD^*\$$ scattering from lattice QCD	MADANAGOPALAN, Padmanath

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

-Conveners: koun choi

time	title	presenter
14:30	Latest results from DEAP-3600	MCLAUGHLIN, Joseph
14:50	DarkSide-20k and the Future Liquid Argon Dark Matter Program	WANG, Yi
15:10	Status of the XENONnT dark matter experiment	DI GANGI, Pietro
15:30	The LUX-ZEPLIN (LZ) experiment	COTTLE, Amy
15:50	Recent progress and plan of PandaX experiment	LIN, Qing
16:10	Dark matter search to the limits: the DARWIN experiment	MACOLINO, Carla

#### **Equality, Diversity and Inclusion - Room 7 (Gialla) (14:30 - 16:30)**

-Conveners: Isabella Garzia; Genevieve Guinot; Haiyan Gao

time	title	presenter
14:30	Introduction to the EDI session	GUINOT, Genevieve GAO, Haiyan GARZIA, Isabella ERAN JONA, Meytal BRAGE, Tomas
14:40	D&I Evolution at CERN since Higgs boson	CARVALHO, Louise
15:05	The GENERA Network - promoting gender equality in physics	BRAGE, Tomas
15:30	Break/Discussion	
15:40	Diversity, Equity, and Inclusion Contributed Papers and Reports at Snowmass 2021	BONILLA, Johan
16:05	The need for cultural and structural change within the international high energy physics community to open equitable access and success for Africa.	MURONGA, Azwinndini

#### **Detectors for Future Facilities, R&D, novel techniques - Room 4 (Rossa) (14:30 - 16:30)**

-Conveners: Gianluigi Cibinetto; Daniela Daniela Bortoletto

time	title	presenter
14:30	An overview of the nEXO experiment	LI, Zepeng

14:45	The DUNE vertical drift TPC	LANTWIN, Oliver
15:00	LIME: a gaseous TPC with optical readout	PIACENTINI, Stefano
15:15	FLArE: Forward Liquid Argon Experiment for High Energy Neutrino and Dark Matter Searches at LHC	BIAN, Jianming
15:30	LiquidO: a Novel Neutrino Detection Concept	DUSINI, Stefano
15:45	RES-NOVA: detecting Supernova neutrinos with archaeological Pb-based cryogenic detectors	PATTAVINA, Luca
16:00	Very High Energy Physics and Astronomy with Tau and Photon Probes	SASAKI, Makoto

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

time	title	presenter
14:30	CMS measurements of rare B0s mesons decays	KOVALSKYI, Dmytro
14:47	LFU and CP violation	SMOLKOVIC, Aleks
15:04	Purely Leptonic Rare decays at LHCb	VAN VEGHEL, Maarten
15:21	Search for rare baryonic decays of beauty hadrons at LHCb	AKAR, Simon
15:38	Lepton Flavour Universality tests in electroweak penguin decays at LHCb	SCHMITT, Sebastian
15:55	Search for baryon-number-violating and lepton-flavor-violating decays at Belle	DE MARINO, Gaetano

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

-Conveners: Laura Patrizii

time	title	presenter
14:30	Latest results from CUPID-0	FANTINI, Guido
14:45	Latest results from the CUORE experiment	DELL'ORO, Stefano
15:00	Final results from GERDA: a neutrinoless double beta decay search	SHTEMBARI, Lolian
15:15	KamLAND-Zen 800	GANDO, Azusa
15:30	Searching for neutrinoless double beta decay with LEGEND experiment	BURLAC, Nina
15:45	Search for Neutrinoless Double-Beta Decay with LEGEND-1000	WILLERS, Michael
16:00	The R2D2 neutrinoless double-beta decay experiment	WARD, Robert

#### **Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors - Room 6 (Bianca) (14:30 - 16:30)**

-Conveners: Felix Reidt; Tiziano Camporesi; Carla Sbarra

time	title	presenter
14:30	The GEM GE1/1 station of the CMS muon detector: status, commissioning and operation in magnetic field	MITTAL, Monika
14:50	Design optimization and initial performance of the GEM GE2/1 detector for the upgrade of the CMS endcap muon system	ABBOTT, Sam
15:10	Longevity studies for the CMS Muon System towards HL-LHC	PRIMAVERA, Federica
15:30	Performance of the ATLAS New Small Wheels in preparation for LHC Run-3 data taking	GUAN, Liang
15:50	The LHCb Muon Detector Upgrades	PAOLUCCI, Lorenzo

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

-Conveners: Tiziano Camporesi; Carla Sbarra; Felix Reidt

time	title	presenter
17:00	The MAPP (MoEDAL Apparatus for Penetrating Particles) Upgrade to the MoEDAL-LHC Experiment at Run-3	SOLUK, Richard
17:20	Performance and upgrade studies of the KAPAE detector for positronium physics	PARK, Hyeoungwoo
17:40	Overview of ATLAS forward proton detectors for LHC Run 3 and plans for the HL-LHC	ERLAND, Paula
18:00	The CMS Precision Proton Spectrometer timing system: Run 2 performance and Run 3 upgrade status and perspective	BOSSINI, Edoardo
18:20	Proton reconstruction with the Precision Proton Spectrometer (PPS) in Run 2 and expectations from Run 3	OBERTINO, Maria Margherita

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

-Conveners: Sarah Williams; Lesya Shchutska

time	title	presenter
17:00	Exploring Physics Beyond the Standard Model with MicroBooNE	MARSDEN, David
17:15	Search for Heavy Neutral Leptons in $\tau$ -lepton decays with the BABAR detector.	MIDDLETON, Sophie
17:30	New BSM Physics at the LHeC and FCC-he	FISCHER, Oliver
17:45	Searches for Heavy Neutral Leptons in CMS	VERMASSEN, Basile
18:00	Search for heavy neutral lepton production and decay with the IceCube Neutrino Observatory	FISCHER, Leander
18:15	Heavy Neutrinos at Future Linear e+e- Colliders	MEKALA, Krzysztof
18:30	Origin of Neutrino Masses on the Convex Cone of Positivity Bounds	LI, Xu

18:45	WrapUp	
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### **Detectors for Future Facilities, R&D, novel techniques - Room 4 (Rossa) (17:00 - 19:00)**

-Conveners: Cornelia Wunderer; Jianchun Wang

time	title	presenter
17:00	The BDx experiment at Jefferson Laboratory	CELENTANO, Andrea
17:15	The ALPS II Experiment	SHAH, Rikhav
17:30	FASER Status and Prospects	SHIVELY, Savannah
17:45	The NUSES space mission	DI GIOVANNI, Adriano
18:00	ECCE forward physics and detector design	SCHMIDT, Nicolas
18:15	Detector Challenges of the strong-field QED experiment LUXE at the European XFEL	BORYSOV, Oleksandr

### **Computing and Data handling - Room 12 (Celeste) (17:00 - 19:00)**

-Conveners: Graeme A Stewart; Daniele Bonacorsi

time	title	presenter
17:00	Large Scale Data Handling experience at INFN-CNAF Data Center	MORGANTI, Lucia
17:15	Data-Acquisition System Upgrade at the KOTO Experiment	LIN, Chieh
17:30	TomOpt: Differentiable Optimisation of Muon-Tomography Detectors	STRONG, Giles Chatham
17:45	Software and computing challenges in a Muon Collider Detector	ANDREETTO, Paolo
18:00	Non-Parametric Data-Driven Background Modelling using Conditional Probabilities	SILVA, Julia Manuela

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

-Conveners: Matteo Tenti

time	title	presenter
17:00	The SuperChooz Pathfinder Exploration	CABRERA, Anatael
17:15	Reduction of TI-208 backgrounds for Zr-96 neutrinoless double beta decay experiment using topological information of Cherenkov light	FUKUDA, Yoshiyuki
17:30	Exploiting a future galactic supernova to probe neutrino magnetic moments	PORTO SILVA, Yago Philippe

### **Education and Outreach - Room 3 (Verde) (17:00 - 19:00)**

-Conveners: Gwenhael de Wasseige

time	title	presenter
17:00	Crowdfunding your outreach	STOLPOVSKIY, Mikhail
17:15	Sustainability in High Energy, Cosmology and Astroparticle Physics – A White Paper	MILLINGTON, Peter
17:35	Raising awareness on gender issues: a path through physics, outreach and diversity	MASULLO, Maria Rosaria
17:55	Final discussion	

### **Equality, Diversity and Inclusion - Room 7 (Gialla) (17:00 - 19:00)**

-Conveners: Isabella Garzia; Genevieve Guinot; Haiyan Gao

time	title	presenter
17:00	Invited, Valued and Welcome? Negotiating Diversity and Equity in Physics	GÖTSCHER, Helene
17:25	Women in science and engineering: Issues, theories, and new findings	CANETTO, Silvia Sara
17:50	Break/Discussion	
17:55	Why Diversity Charters should not avoid equality actions	BRUNI, Alessia
18:15	Discussion - what did we learn from research, recommendations, experience	

### **Heavy Ions - Room 5 (Aporio) (17:00 - 19:00)**

-Conveners: Martin Spousta

time	title	presenter
17:00	Results from the Beam Energy Scan program at STAR	ZBROSZCZYK, Hanna
17:15	Searching for the critical point: news from fluctuations study in the NA61/SHINE experiment	CYBOWSKA, Justyna
17:35	Two-Particle Correlations of Hadrons in $e^+e^-$ Collisions at Belle	CHEN, Yu-Chen
17:50	Two-particle correlation in $e^+e^-$ collisions at 91-209 GeV with archived ALEPH data	LEE, Yen-Jie
18:05	Azimuthal correlations in photoproduction and deep inelastic $ep$ scattering at HERA	BUSSEY, Peter

### **Strong interactions and Hadron Physics - Room 1 (Europa Auditorium) (17:00 - 19:00)**

-Conveners: Alice Ohlson; Marco Pappagallo

time	title	presenter
17:00	Non-perturbative QCD up to high temperatures: the case of mesonic screening masses	PEPE, Michele
17:15	Measurement of the hypertriton properties and production with ALICE	DITZEL, Janik
17:30	Extending the ALICE strong-interaction studies to nuclei: measurement of proton-deuteron and $\Lambda$ -deuteron correlations in pp collisions at $\sqrt{s} = 13$ TeV	SINGH, Bhawani
17:45	Charged particle correlations with ATLAS	ASTALOS, Robert
18:00	Light Meson Spectroscopy at BESIII	HOU, guoyi
18:15	The hybrid nonet of $\pi_1(1600)$ and $\eta_1(1855)$ : analysis and predictions	SHASTRY, Vanamali
18:30	Studying light flavour resonances with polarised photon beams	HAMMOUD, Nadine

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

-Conveners: Mercedes Paniccia

time	title	presenter
17:00	Multi-Messenger astrophysics with the Pierre Auger Observatory	MASTRODICASA, Massimo
17:15	The Pierre Auger Observatory: latest results and future perspectives	SANCHEZ, Federico
17:30	ALPACA experiment: A new air shower array to explore the sub-PeV gamma-ray sky in the southern hemisphere	SAKO, Takashi
17:45	Latest results from DAMPE	STOLPOVSKIY, Mikhail
18:00	CALET on the International Space Station: new direct measurements of cosmic-ray iron and nickel	STOLZI, Francesco
18:15	The High Energy Cosmic-Radiation Detection (HERD) facility for direct cosmic-ray measurements.	MORI, Nicola
18:30	Recent results on gamma-ray observation by the Tibet ASgamma experiment	TAKITA, Masato

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

-Conveners: koun choi

time	title	presenter
17:00	Searching for dark matter with the PICO bubble chambers	VAZQUEZ-JAUREGUI, Eric
17:20	Latest Results from the PROSPECT Reactor Antineutrino Experiment Including Limits on Sub-GeV Boosted Dark Matter	WEATHERLY, Pierce
17:40	Xenon-1T excess as a possible signal of a sub-GeV hidden sector dark matter	KLASEN, Michael
18:00	MIGDAL: Towards an unambiguous observation of the Migdal effect in nuclear scattering	KATSIOLAS, Ioannis
18:20	Dark Matter Data Center	BANERJEE, Heerak

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

time	title	presenter
17:00	A New Tool for Detecting BSM Physics in $B \rightarrow K^* \ell \ell$ Decays	SIBIDANOV, Alexei
17:17	Update on the Unitarity Triangle global fits by the UFit Collaboration	BONA, Marcella
17:34	Combining low- and high-energy constraints on flavourful EFTs	ALLWICHER, Lukas
17:51	Probing Flavor at High- $p_T$ in LHC	JAFFREDO, Florentin
18:08	Heavy flavor physics at FCC-ee	ZUO, Xunwu
18:25	Footprints of Majorana Neutrinos in Rare Meson Decays	HARZ, Julia

#### **CTAO: the World's largest ground-base gamma-ray observatory: CTAO: the World's largest ground-base gamma-ray observatory - Room 1, Europa Auditorium (19:15 - 20:15)**

-Conveners: Federico Ferrini