

Overview

Plenary Session Room
ID: 918-4026-0791

Career Forum Room
ID: 916-3042-9994

**Cocktail Hour & Award
Ceremony Room**
ID: 916-3042-9994

General Break Room
ID: 999-7484-4282

Previous Speaker 1 Room
ID: 942-5768-0538

Previous Speaker 2 Room
ID: 970-6086-9621

Previous Speaker 3 Room
ID: 982-5350-9038

Parallel Session Rooms

DM
ID: 991-0684-8892

Axions & ALPs
ID: 917-9279-9034

Higgs
ID: 940-7865-5460

Top
ID: 916-0417-6879

**Theoretical Developments
& Extra Dimensions**
ID: 974-8703-1311

Cosmology
ID: 945-7949-8057

SUSY
ID: 980-7365-4372

QCD & EW
ID: 953-1231-4359

Neutrinos
ID: 948-3404-3473

BSM
ID: 922-9955-0143

Flavor
ID: 910-9273-6893

Tools
ID: 995-6890-0685

Plenary Session

	Monday	Tuesday	Wednesday
Chair	Marc Sher	Susanne Westhoff	Chris Kolda
8:40	Welcome Kathy Blee		
8:45	LHC update: New results, new techniques, and new ideas Jianming Qian	Muon physics at FNAL Jarek Kaspar	New Physics at the TeV Scale Matthew Reece
9:20	Prospects for LHC and HL-LHC physics Anadi Canepa	News from neutrino experiments Francesca Di Lodovico	What is the Dark Matter? Stefano Profumo
9:55	Physics at hadron colliders Tilman Plehn	Neutrino physics: the theory and phenomenology Pedro Machado	Axion physics Andreas Ringwald
10:30	Coffee Break		

	Monday	Tuesday	Wednesday
Chair	Hooman Davoudiasl	Shufang Su	Raman Sundrum
11:00	Developments in cosmological measurements Adam Riess	Physics Highlights from LHCb Katharina Mueller	Quantum computing Martin Savage
11:35	Multi-messenger probes for fundamental physics Daniel Holz	Physics at the Electron-Ion Collider (EIC) Jianwei Qiu	Some new thoughts on the hierarchy problem Nima Arkani-Hamed
12:10	Cosmology and new physics Scott Watson	BSM Opportunities at the LHC Zhen Liu	Strategy in pursuing high energy physics Christophe Grojean

12:45	Career Forum
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Parallel Session 1: Monday, May 4 (Early)

	BSM I	DM I	Neutrinos I	Cosmology I	Axions & ALPs I	SUSY I	QCD & EW I
Chair	Lisa Everett	Antonio Delgado	Peter Denton	Arthur Kosowsky	Bhupal Dev	Konstantin Matchev	Daniel Wiegand
2:00							
2:15	Topologically stable, finite energy electroweak-scale monopoles P. Q. Hung	Dark Matter searches with the ATLAS Detector Julian Wollrath	Looking forward to Neutrinos at the LHC Felix Kling	The Gravitational Waves from the Early-Universe Turbulent Sources Tinatin Kakhniashvili	Dark Photon searches at B-factories Giacomo De Pietro	Searches for strong production of supersymmetric particles with the ATLAS detector Marco Valente	Signal-background interference for digluon resonances at the Large Hadron Collider Prudhvi Nikhil Bhattachiprolu
2:30	Non-linearly realized discrete symmetries Saurav Das	Search for dark matter at CMS Simranjit Singh Chhibra	Long-lived heavy neutrino searches at the colliders Arindam Das	Gravitational Waves from Cosmological Phase Transitions in an Expanding Universe Huaike Guo		Searching for pair production of top squarks at the CMS Andrea Trapote Fernandez	Leading Fermionic Three-Loop Corrections to Electroweak Precision Observables Lisong Chen
2:45	Mirror color symmetry breaking in Twin Higgs models Wei Hu	Collider probes of real triplet scalar dark matter Yong Du	Scalar and Tensor Neutrino Interactions Hongkai Liu	A wrinkle in spacetime: searching for gravitational wave signatures of multiple hidden sectors. Paul Archer-Smith	X-ray Searches for Axions Christopher Dessert	Searches for electroweak production of supersymmetric particles with the ATLAS detector Jason Oliver	Master Integrals for the mixed EW-QCD corrections to the Drell-Yan production of a massive lepton pair Syed Mehedi Hasan
3:00	A new mechanism for Matter Anti-Matter asymmetry Arnab Dasgupta	Next Generation Dark Matter Models Linda Carpenter	Neutrino Non-Standard Interactions: Complementarities Between LHC and Oscillation Experiments Sudip Jana	Spin Effects in Non-relativistic General Relativity Beyond the Leading Order Brian Pardo	Axion Constraints from Quiescent Soft Gamma-ray Emission from Magnetars Sheridan Lloyd	SUSY phenomenology circa 2020 Howard Baer	The proton radius puzzle Gil Paz
3:15	Strong First-Order Electroweak Phase Transitions in the Standard Model with a Singlet Extension Anthony Hooper	Mirror Twin Higgs Portal Dark Matter Shayne Gryba	Neutrino Non-Standard Interactions via Light Scalars Garv Chauhan	Phase Transitions as Cosmological Witnesses Dan Vagie	Fast radio bursts from axion Fa Peng Huang	Stop and Gluino Searches at the LHC and Future Colliders Cem Salih Un	Large electron electric dipole moment in the standard model Nodoka Yamanaka
3:30	Minimal model of torsion mediated dark matter Debottam Das	A sub-GeV dark matter model Sumit Ghosh	How well do we know neutrino-electron scattering? EFT approach for neutrino interactions Oleksandr Tomalak	Signatures of complex scalar field with chemical potential in primordial non-gaussianities Arushi Bodas	Axion cooling of neutron star mergers Steven Harris	Simple Hidden Sector Dark Matter Zachary Johnson	Integration By Parts like identities in Schwinger-Feynman-Lee-Pomeransky parametrization Ray Sameshima
3:45	Phenomenology of CP-Violating Higgs Portal Dark Matter Linda Xu	Phenomenology of Singlet-doublet Fermionic Dark Matter Basabendu Barman	Muonium-Antimuonium Oscillations in Effective Field Theory Renaë Conlin	Thermal Loop Effects on Large-Scale Curvature Perturbation in the Higgs Inflation Po-Wen Chang	New Directions for Axion Searches via Scattering at Reactor Neutrino Experiments Adrian Thompson		
4:00	Coffee Break						

Parallel Session 2: Monday, May 4 (Late)

	BSM II	DM II	Tools	Cosmology II	Flavor I	Higgs I	QCD & EW II
Chair	Gil Paz	Jonathan Cornell	Jurgen Reuter	Keisuke Harigaya	Simon Eidelman	Will Shepherd	Bin Yan
4:30	Sensitivity of LNV Meson Decays in Different Experiments Sanjoy Mandal	Detecting keV-range super-light dark matter using graphene Josephson junction Doojin Kim	A universal framework for t-channel dark matter models Benjamin Fuks	Hubble Hullabaloo and String Cosmology Luis Anchordoqui	Flavor Mini-review Joachim Brod	A Light Scalar Explanation of Muon g-2 and the KOTO Anomaly Jia Liu	Valence and Connected Sea Partons in Hadronic Tensor and LaMET Kehfei Liu
4:45	Pair-production of dark particles in meson decays Matheus Hostert	The relation between Migdal effect and dark matter-electron scatterings in atoms and semiconductors Mukul Sholapurkar	A Robust Measure of Event Isotropy at Colliders Cari Cesarotti	Braneworld Cosmological Effect on Freeze-in Dark Matter Density and Lifetime Frontier Victor Baules		Light Scalars and the KOTO Anomaly Samuel Homiller	Gluon parton distribution function from Lattice QCD Zhouyou Fan
5:00	Hunting Inflaton at FASER Nobuchika Okada	Multiphonon excitations from dark matter scattering in crystals Brian Campbell-Deem	Learning Physics at Future e^-e^+ Colliders with Machine Lingfeng Li	A Reconstruction Conjecture: Deciphering the Structure of the Dark Sector from the Matter Power Spectrum Brooks Thomas	A low-scale flavon model with a ZN symmetry Junichiro Kawamura	Neutral and Doubly-Charged Scalars at Future Lepton Colliders Fang Xu	Strange parton distribution function (PDF) from lattice QCD Rui Zhang
5:15	Diagnosing the Hidden Sector with MATHUSLA and CMS Jared Barron	Millicharged Dark Sectors at FerMINI, Neutrino Experiments, and Neutrino Observatories Yu-Dai Tsai	Generalized Interpretation of single VLQ Searches at the LHC Avik Roy	Deciphering the Structure of the Dark Sector from the Matter Power Spectrum: A Concrete Example Fei Huang	A \mathcal{T}_{13} Family Symmetry Model for Quarks and Leptons Moinul Hossain Rahat	Updated constraints on the Georgi-Machacek model Ameen Ismail	The Electroweak PDFs (I): the general considerations Keping Xie
5:30	Long-lived particle search @ LHC Xiaoping Wang	Dynamics of millicharged dark matter in supernova remnants Jung-Tsung Li	Delaunay Tessellations for Bayesian Wombling on LHC Data Alex Roman	Spontaneous Freeze Out of Dark Matter from an Early Thermal Phase Transition Lucien Heurtier	Revisiting $X(3872) \rightarrow D^0 \bar{D}^0 \pi^0$ in XEFT Lin Dai	Constraints on the Inert(1+2)HDM Marco Merchand	The Electroweak PDFs (II): the necessity and applications Yang Ma
5:45	Supernova limit on a light CP-even scalar and implications for the KOTO anomaly Yongchao Zhang	FIMP dark matter at the KOTO experiment Benjamin Lehmann	JHU generator framework: new features for Higgs boson studies Heshy Roskes	Warm Self-Interacting Dark Matter Bounds from Lyman Alpha Daniel Gift	Charm-meson Triangle Singularity in e^+e^- Annihilation into $D^0 \bar{D}^0 \gamma$ Jun Jiang	Probing Exotic Charged Higgs Decays in the Type-II 2HDM through Top Rich Signal at a Future 100 TeV pp Collider Shuailong Li	Recent observation and measurements of vector-boson fusion and scattering with ATLAS Jing Chen
6:00	Searching for Dark Photon Dark Matter with LIGO Fengwei Yang	Dark Scalars and Heavy Neutral Leptons at the Fermilab SeaQuest Experiment Mudit Rai	A quantum algorithm for model independent searches for new physics Prasanth Shyamsundar	Post-inflationary Production of Light Dark Sector Anish Ghoshal	Doubly Heavy Tetraquarks in the Heavy-Diquark Limit with Error Bars Liping He	Testing the EWPT of 2HDM at future lepton Colliders Wei Su	
6:15	Searching for long-lived particles with CMS during Run-3 and at the HL-LHC Sven Dildick	Absorption of Fermionic Dark Matter by Nuclear Targets Robert McGehee			ATLAS results on quarkonia and heavy flavour production (including exotics) Tatiana Lyubushkina	Higgs troika for baryon asymmetry Matthew Sullivan	

Parallel Session 3: Tuesday, May 5 (Early)

	BSM III	DM III	Neutrinos II	Higgs II	Flavor II	Top	Theory & Xtra Dim.
Chair	Rodolfo Capdevilla	Yuhsin Tsai	Manimala Mitra	Jia Liu	Lin Dai	Lingfeng Li	Keith Dienes
2:00	Searches for Diboson Resonances at ATLAS Alex Emerman	Ultralight Boson Dark Matter Constraints from Superradiance Leveraging the Event Horizon Telescope Collaboration's Observations of M87* Peter Denton	Probing New Physics with Standard Double Beta Decay Lukas Graf	Composite Higgs Models at the LHC and beyond Da Liu	Recent results on bottomonium from Belle Simon Eidelman	Pheno at a distance: A global search for new physics with top quarks Susanne Westhoff	Naturalness versus Stringy Naturalness Shadman Salam
2:15	Beyond exclusive leptonic resonances with the ATLAS detector Damiano Vannicola	Looking for primordial black holes in the spectra of GRBs and FRBs Wei Xue	Neutrinoless double beta decay in minimal left-right symmetric model with long range contributions Juan Carlos	A Natural Composite Higgs via Universal Boundary Conditions Florian Goertz	Search for rare B decays with the LHCb experiment Titus MombCher	Single-top-quark production at NNLO Tobias Neumann	Towards predictivity in asymptotically safe quantum gravity with matter Marc Schiffer
2:30	Search for new phenomena in leptonic final states at CMS Angira Rastogi	Asteroid-Mass Primordial Black Holes as Dark Matter Nolan Smyth	TeV-scale Lepton Number Violation: $0\beta\beta$ -decay, the origin of matter and energy frontier probes Sebastian Urrutia-Quirga	Doubly Charged Higgs Boson Production at Hadron Colliders Richard Ruiz	First measurements of isospin amplitudes in Λ_{cb} and Ξ_{cb} decays Aravindhan Venkateswaran	Probing $Z\bar{t}t$ couplings using Z boson polarization in ZZ production at hadron colliders Bin Yan	States of Low Energy and the Initial State(s) of the Inflaton Rudrajit Banerjee
2:45	Collider signature of multicharged vectorlike leptons Nilanjana Kumar	A testable hidden-sector model for Dark Matter and neutrino masses Julia Gehrlein	Searches for Atmospheric Long-Lived Particles Carlos Arguelles	The Higgs and Leptophobic Force at the LHC Elliot Golias	ATLAS Measurements of CP Violation and Rare Decays Processes with Beauty Mesons Ann-Kathrin Perrevoort	Measurement of top-quark properties with the ATLAS detector at the LHC Jacob Julian Kempster	The on-shell viewpoint of effective field theory Minglei Xiao
3:00	Analysis of the Scalar sector and prospect of a scalar dark matter candidate in the Electroweak Scale Right handed neutrino-model Shreyashi Chakdar	Constraining atomic dark matter with white dwarfs Jack Setford	Towards Minimal SU(5) Shaikh Saad	Flavor Changing Neutral Higgs Boson Meets the Top and the Tau at Hadron Colliders Rishabh Jain	Latest measurement of $K^+ \rightarrow \pi^+\nu\bar{\nu}$ with the NA62 experiment at CERN Roberta Volpe	Measurement of rare top-quark production processes with the ATLAS detector Zhi Zheng	A Tale of Two U(1)s: Kinetic Mixing from Lattice WGC States Aditya Parikh
3:15	Beyond the Standard Model Effective Field Theory: The Singlet Extended Standard Model Shekhar Adhikari	UV and IR freeze-in production of fermionic dark matter and its possible X-ray signature Sougata Ganguly	Constraining Sterile Neutrino Dark Matter in Left-Right Theories David Dunsy	A New Precision Process at FCC-hh: the diphoton leptonic Wh channel Alejo Rossia	Searches for exotics decays with NA62 Stefan Alexandru Ghinescu	Rare top quark production in CMS: ttZ, ttW, ttgamma, tZ, tgamma, and tttt production Clara Ramon Alvarez	Signals of KK graviton from extended warped extra dimensions at the LHC (I) Majid Ekhterachian
3:30	Drell-Yan in the SMEFT Including Coupling Shift Effects Alyssa Horne	"Non-Local" Effects from Boosted Dark Matter in Indirect Detection Steven Clark		EFT Perspective on Precision Higgs Couplings in Neutral Naturalness Models Huayang Song	Searches for lepton flavour and lepton number violation in K+ decays Paolo Massarotti	Recent top quark properties in CMS Agostino De Iorio	Signals of KK graviton from extended warped extra dimensions at the LHC (II) Deepak Sathyan
3:45				Probing Extended Scalar Sector Through $e^+e^- \rightarrow Zh$ Process at NLO Jia Zhou	[More] Treasures from Kaons Amarjit Soni	Recent ttbar and single top inclusive and differential cross sections results in CMS Silvano Tosi	Microscopic black holes at IceCube and beyond Ningqiang Song
4:00	Coffee Break						

Parallel Session 4: Tuesday, May 5 (Late)

	BSM IV	DM IV	Neutrinos III	Higgs III	QCD & EW III	SUSY II	Axions & ALPs II
Chair	Da Liu	Robert McGehee	Ahmed Ismail	Ian Lewis	Tobias Neumann	Adam Martin	Brooks Thomas
4:30	Searches for resonances in hadronic final states with the ATLAS detector Binbin Dong	Dark Matter from a secluded Dark SU(N) Theory with a Single Quark Flavor Logan Morrison	Gravitational Origin for Neutrino Masses Hooman Davoudiasl	Constraining the Higgs boson self-coupling in a combined measurement of single and double Higgs boson channels at the ATLAS experiment Eleonora Rossi	On the Validity of SMEFT Studies: VH and VV Production Samuel Lane	Flavored Gauge Mediation with Discrete Non-Abelian Symmetries Lisa Everett	The High Quality QCD Axion and the LHC Soubhik Kumar
4:45	New Limits on Coloured Three Jet Resonances Hassan Easa	Exotic Compact Objects in a Dissipative Dark Sector Jae Hyeok Chang	Dodelson-Widrow Mechanism in the Presence of Self-Interacting Neutrinos Walter Tangarife	Combined Higgs boson measurements at the ATLAS experiment Kunlin Ran	Removing Flat Directions in SMEFT Fits: Complementing the LHC with polarized EIC Data Daniel Wiegand	Generating the Cabibbo Angle in Models of Discrete, Non-Abelian Flavored Gauge Mediation Ariel Rock	QCD axion DM and inflation scale Wen Yin
5:00	Search for unconventional signatures at CMS Malgorzata Kazana	Light Z and Dark Matter from U(1) _X Gauge Symmetry Satomi Okada	A renormalizable model of gauged neutrino self-interactions and the Hubble tension Andreas Trautner	Studies of Higgs boson properties in decays to two b-quarks at the ATLAS experiment Weitao Wang	Simulating Multi-Jet Events at Hadron Colliders using Forward Branching Phase Space Generators Terrance Figy	A landscape solution to the SUSY flavor and CP problems Dibyashree Sengupta	Gravitational Production of Ultra light Dark(est) Matter Nathan Herring
5:15	Search for dark sector in CMS Swagata Mukherjee	Freeze-In dark matter from secret neutrino interactions Li Haolin	Neutrino-dark matter connections in gauge theories Alexis Plascencia	Studies of rare production and decay processes of the Higgs boson at the ATLAS experiment Nadezda Proklova	Measurements of inclusive multi-boson production at ATLAS Louie Dartmoor Corpe	Probing Lepton Flavor Violating decays in MSSM with Non-Holomorphic Soft Terms Samadrita Mukherjee	Axion Coupling Quantization in the Presence of Mixing Katherine Fraser
5:30	Prospects for searches for Leptoquarks with large coupling with the top quark Subhadip Mitra	Neutrino Portal to FIMP Dark Matter with an Early Matter era Yongcheng Wu	Dark Matter annihilation to neutrinos: New limits and future prospects Ali Kheirandish	Searches for BSM Higgs at ATLAS Josefina Alconada	Precision measurements of W and Z boson production at ATLAS Victor Solovveyev	Mixed gluinos and sgluons from a new SU(3) x SU(3) gauge group Stephen Martin	Dynamical axion misalignment with small instantons Manuel Buen-Abad
5:45	Signatures of the \tilde{R}_2 class of leptoquarks at the upcoming ep colliders Rojalin Padhan	Co-SIMP Miracle Juri Smirnov	GZK neutrinos through Earth Ibrahim Safa	Measurements of Higgs boson properties in the final state with four leptons at the ATLAS experiment Verena Maria Walbrecht	Jet and Photon Measurements using the ATLAS detector Manuel Alvarez Estevez	One Model Fits All: A Minimal R-parity Violating Supersymmetric Model for the Flavor Anomalies, Muon g-2 and ANITA Bhupal Dev	SMART U(1) _X - Standard Model with Axion, Right handed neutrinos, Two Higgs doublets and U(1) _X gauge symmetry Digesh Raut
6:00	Searches for heavy BSM particles coupling to third generation quarks at CMS James William Dolen	KINDER Dark Matter Patrick Fitzpatrick	On the general characteristics of neutrino-driven outflows Payel Mukhopadhyay	Searches for scalar sector extensions of the standard model via $H \rightarrow ZA \rightarrow llbb$ process at CMS Aashaq Shah	Precision Predictions at N ³ LO Bernhard Mistlberger	A multicomponent dark matter scenario consistent with experiment Roland Allen	QCD Axion Dark Matter from a Late Time Phase Transition Jacob Leedom
6:15	Full Run 2 Results for Disappearing Tracks at CMS Brian Francis	Cooking Pasta with Dark Matter Rebecca Leane		Recent Higgs boson measurements in the WW final state using CMS data Siewyan Hoh			
6:45	Cocktail Hour & Award Ceremony						

Phone Connection Numbers

Dial +1 267 831 0333 or 877 853 5247 (toll free), followed by ID and password
Passwords not available in online document

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