

Overview

Plenary Session
Zoom ID: 939-5102-5550

General Break Room
Gather Town
<https://gather.town/i/kIGBNfIX>

Career Forum
Zoom ID: 954-0517-7426

Cocktail Hour & Award Ceremony
Zoom ID: 946-0331-0491

Parallel Session Rooms

Monday	Axions & ALPs I	Cosmology I	Flavor I	Tools I	BSM I	DM VII	DM I
2:15–4:00	Zhen Liu	Jason Kumar	Marco Guzzi	Tao Xu	Chris Hayes	Pouya Asadi	Ahmed Ismail
Zoom ID	994 4663 7338	910 3236 2960	956 1823 5024	936 8764 8384	940 6152 7104	918 7465 1865	996 6033 6254
Monday	Axions & ALPs II	Cosmology II	Flavor II	Tools II	BSM II	BSM VII	DM II
4:30–6:45	Doojin Kim	Arthur Kosowsky	Zack Sullivan	Daneng Yang	Ljiljana Morvaj	Christian Herwig	Nirmal Raj
Zoom ID	976 1608 8623	967 3479 1723	956 1823 5024	936 8764 8384	963 2859 3144	997 8244 5218	959 4148 1874
Tuesday	Higgs I	Cosmology III	Flavor III	SUSY I	BSM III	BSM VIII	DM III
2:00–4:00	Gang Li	Andrew Long	Da Liu	Stephen Martin	Richard Ruiz	Jure Zupan	Flip Tanedo
Zoom ID	969 4563 1806	913 7904 4495	975 3351 9613	972 1705 0349	998 3791 0748	960 3275 4961	943 8206 6548
Tuesday	Higgs II	Cosmology IV	Neutrino I	SUSY II	BSM IV	BSM IX	DM IV
4:30–6:30	Samuel Homiller	Bhupal Dev	Bei Zhou	Howard Baer	Ian Lewis	David Shih	Kaustubh Agashe
Zoom ID	997 7136 0238	925 9658 1799	967 3124 7559	972 1705 0349	977 7635 4926	913 1648 3787	949 5907 8943
Wednesday	Higgs III	Cosmology V	Neutrino II	QCD & EW I	BSM V	DM VIII	DM V
2:00–4:00	Lingfeng Li	Stefano Profumo	Kevin Kelly	Sida Lu	Tatha Ghosh	Bibhushan Shakya	Nobuchika Okada
Zoom ID	980 1327 2769	935 6704 2779	985 4572 9453	980 1723 9907	910 2168 0144	962 0631 4175	930 9405 1332
Wednesday	Higgs IV	Theory & Xtra Dim.	Neutrino III	QCD & EW II	BSM VI	DM IX	DM VI
4:30–6:45	Dorival Goncalves	Peizhi Du	Pedro Machado	Tobias Neumann	Brian Shuve	Joshua Berger	Juri Smirnov
Zoom ID	929 5144 7249	984 0420 7205	991 2891 2038	950 0309 2770	961 8674 6925	974 5836 2193	990 0482 2099

Passwords are sent to all participants through email, which are not available in the online document.

Plenary Session

	Monday	Tuesday	Wednesday
Chair	Keith Dienes	Doreen Wackerath	Kaladi Babu
8:40	Welcome Kathy Blee		
8:45	Dark matter direct detection Knut Moraas	Recent LHC Results Tulika Bose	Perspectives on neutrino physics Regina Abby Rameika
9:20	Dark matter: new searches for ancient particles Joseph Bramante	LHC phenomenology Veronica Sanz Gonzalez	Deep Learning Landscapes James Halverson
9:55	Probing the dark sector Natalia Toro	Future Perspectives at HL-LHC Laura Jeanty	Physics opportunities at future colliders Patrick Meade
10:30	Coffee Break		

	Monday	Tuesday	Wednesday
Chair	Lisa Everett	Christophe Grojean	Sekhar Chivukula
11:00	Dynamical tests of dark matter in the Milky Way Robyn Sanderson	Muon g-2 and muon physics on Fermilab campus James Mott	Scattering amplitudes and more Henriette Elvang
11:35	Physics with NANOGrav Maura McLaughlin	Beauty physics from Belle II Christoph Schwanda	General Neutrino Interactions Danny Marfatia
12:10	Cosmology in 2021: Concordances and Tensions Elizabeth Krause	Anomalies and their implications Bhupal Dev	New perspectives in particle physics Richard Keith Ellis

12:45	Career Forum
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Parallel Session: Monday, May 24 (Early)

	Axions & ALPs I	Cosmology I	Flavor I	Tools I	BSM I	DM VII	DM I
Chair	Zhen Liu	Jason Kumar	Marco Guzzi	Tao Xu	Chris Hayes	Pouya Asadi	Ahmed Ismail
2:00							
2:15	An even lighter QCD axion Pablo Quilez Lasanta	Classical Cosmological Collider Physics Reza Ebadi	Remarks on Direct CP in K, D and B decays Amarjit Soni	Anomaly detection using machine learning David Shih	Search for long-lived particles in CMS Celia Fernandez Madrazo	Dark-sector physics at Belle II Katharina Dort	Dark Matter searches in CMS Praveen Chandra Tiwari
2:30	The νDFSZ Axion model dubbed 2hdSMASH Michael Maxim Matlis	Massless Preheating and Electroweak Vacuum Metastability Jeff Kost	New physics in $b \rightarrow se^+e^-$: A model independent analysis Suman Kumbhakar		Searches for New Long-lived Particles with the ATLAS detector Jackson Carl Burzynski	Phenomenology of Inelastic Dark Matter at the SBN Experiments Joshua Berger	Searches for dark matter with the ATLAS detector Luigi Sabetta
2:45	High quality axions in solutions to the μ problem Prudhvi Bhattiprolu	Electroweak Phase Transition with an SU(2) Dark Sector Hongkai Liu	Measurement of the very rare $K^+ \rightarrow \pi^+ \nu \nu^-$ decay Bob Velghe	Nanosecond machine learning with BDT for high energy physics Tae Min Hong	Triggering long-lived particles in HL-LHC and the challenges in the first stage of the trigger system Prabhat Solanki	Searching for light dark matter at Fermilab's proton-fixed target experiment: DarkQuest Cristina Ana Mantilla Suarez	Mediator-Induced Decay Chains and Multijet Collider Signatures from Non-Minimal Dark Sectors Brooks Thomas
3:00	$SU(5) \times U(1)_X$ Axion Model with Observable Proton Decay Digesh Raut	Influence of asymmetry of potential on stability of domain walls Tomasz Krajewski	Lepton Flavor Universality in $Y(3S)$ Decays to Tau Leptons and Muons with the BaBar Experiment Brian Shuve	Training a new generation of Scientists via Outreach and Prototype Building. Waleska Aldana Segura	Using unsupervised machine learning to find SUEP at the LHC Jared Barron	The Light Dark Matter eXperiment, LDMX Christian Herwig	Tumblers: A Novel Signal for Dark Matter and Its Discovery Prospects at Colliders Tara Leininger
3:15	Photophilic hadronic axion from heavy magnetic monopoles Anton Sokolov	Hidden Naturalness in the Light of Cosmological Data Saurabh Bansal	Charmless B decays at Belle II Sebastiano Raiz	Explainable AI for ML Jet Taggers Lauren Meryl Hay	Promptly decaying SUEP signals at the LHC Aris-George-Baldur Spourdalakis	Detecting Dark Matter with Far-Forward Emulsion and Liquid Argon Detectors at the LHC Sebastian Trojanowski	Experimental signatures of a new dark matter WIMP Roland Allen
3:30	Hunting for axions in the solar basin William Derocco	Inflation From The MSSM Zurab Tavartkiladze	Tau physics prospects at Belle II GüNey Polat	Mass Unspecific Supervised Tagging (MUST) for boosted jets João Seabra	Jet Timing for LLP Searches Wen Han Chiu	Exoplanets as Sub-GeV Dark Matter Detectors Juri Smirnov	Exploring Multilepton Signatures From Dark Matter at the LHC Arran Charles Freegard
3:45	B-modes from Post-inflationary Gravitational Waves Sourced by Axionic Instabilities at Cosmic Reionization Sida Lu	Messenger inflation in gauge mediation and superWIMP dark matter Shinsuke Kawai	Rare Decays at LHCb Yanting Fan	Automating Boosted Decision Tree Analyses with MInOS Joel Walker	GAZELLE - a long-lived particle detector for Belle II? Ruth SchäFer	Machine Learning the 6th Dimension: Stellar Radial Velocities from 5D Phase-Space Correlations Adriana Dropulic	Right Handed Neutrinos, TeV Scale BSM Neutral Higgs and FIMP Dark Matter in EFT Framework Rojalin Padhan
4:00	Coffee Break						

Parallel Session: Monday, May 24 (Late)

	Axions & ALPs II	Cosmology II	Flavor II	Tools II	BSM II	BSM VII	DM II
Chair	Doojin Kim	Arthur Kosowsky	Zack Sullivan	Daneng Yang	Ljiljana Morvaj	Christian Herwig	Nirmal Raj
4:30	Search for feebly interacting particles with NA62 Roberta Volpe	A proposal for relative in-flight flux self-calibrations for spectro-photometric surveys Silvano Tosi	Complementary Probes of Lepton Flavor at a Muon Collider Qianshu Lu	Criteria for projected discovery and exclusion sensitivities of counting experiments Stephen Martin	Third-generation leptoquark searches in CMS Izaak Neutelings	The REDTOP experiment: An η/η' factory to explore BSM physics Corrado Gatto	Stellar Shocks From Dark Asteroids Kevin Zhou
4:45	Heavy Axion at DUNE Zhen Liu	A Dark Sector to Restore Cosmological Concordance Itamar Allali	Getting chirality right: single scalar leptoquark solutions to the $(g-2)_e/\mu$ puzzle Innes Bigaran	Analysis of Bayesian estimates for missing higher orders in perturbative calculations Aleksas Mazeliauskas	Search for heavy resonances in boosted jet plus MET final state in CMS Kamal Lamichhane	FASER: Forward Search Experiment at the LHC Benedikt Vormwald	Celestial-Body Focused Dark Matter Annihilation Throughout the Galaxy Payel Mukhopadhyay
5:00	ALP Searches at Neutrino and Dark Matter Frontier Experiments Adrian Thompson	Massive Neutrino Self-interactions and The Hubble Tension Shouvik Roy Choudhury	Radiative M1 Decays of Heavy Flavor Baryons in Effective Mass Scheme Avijit Hazra	Triggering on electrons and photons in CMS in Phase2 and its physics implications Swagata Mukherjee	Searches for heavy resonances decaying into Z, W, and Higgs bosons at CMS Xudong Lyu	Multi-TeV Signals of Baryogenesis in Higgs Troika Model Matthew Sullivan	Where is a Miracle-less WIMP Ruled Out? Jason Arakawa
5:15	Challenges for an axion explanation of the muon $g-2$ measurement Chen Sun	Hubble tension with an extra radiation and neutrino degeneracy Yo Toda	The re-discovery of the decays for the CP violation measurements Chiara La Licata	Study of energy deposition patterns in hadron calorimeter for prompt and displaced jets using convolutional neural network Rhitaja Sengupta	Bounds on Gauge Bosons Coupled to Non-conserved Currents Soubhik Kumar	A New Approach to Electroweak Symmetry Non-Restoration Yikun Wang	Indirect Detection of Secluded Supersymmetric Dark Matter Patrick Barnes
5:30	Heavy QCD Axion in $b \rightarrow s$ transition Vazha Loladze	Quasars as New Standard Candles Rance Solomon	The search for rare top production and decay processes with the ATLAS experiment at the LHC Anil Sonay	A W^\pm polarization analyzer from Deep Neural Networks Taegyun Kim	New bounds on sneutrino masses through collider searches Humberto Gilmer	Detecting New Physics as Novelty Xuhui Jiang	Optimal Observation Strategies for Velocity-Suppressed Dark Matter Annihilation Nolan Smyth
5:45	Probing axion-like particles with $\gamma\gamma$ final states from vector boson fusion processes at the LHC Elijah Sheridan	Linking the supersymmetric standard model to the cosmological constant Yucheng Qiu	Top quark precision measurements with the ATLAS experiment at the LHC Alexander Basan	Effective collider data analysis with ADL and CutLang Sezen Sekmen	tZ' production at hadron colliders Marco Guzzi	Simplifying Multidimensional Constraints on Narrow Resonances James Osborne	Mirror Neutron Stars Jack Setford
6:00	Axions and scalars in neutron star mergers Steven Harris	String-inspired Infinite Derivative Non-local QFT: Non-perturbative results Marco Frasca	Signatures of toponium formation in LHC run 2 data Ya-Juan Zheng	Constraining new physics with SModelS v2.0: long-lived particles Jan Heisig	Search for new resonances coupling to third generation quarks at CMS James William Dolen	The Higgs of Baryon Number and Dark Matter Alexis Plascencia	Indirect Detection Signatures of a Dark Glueball Spectrum Caleb Gemell
6:15	Top quark production in association with additional particles at CMS: $tt+bb$, $tt+cc$, ttZ , ttW , $tt\gamma$, tZ and $tttt$ production David Walter	Post-Minkowskian Spinning Binary Dynamics in the Worldline Effective Field Theory Approach Zixin Yang	Vector boson plus heavy-flavor jets measurements at CMS Meena Meena	Tuning Pythia for Forward Physics at the LHC Max Fieg	ATLAS Searches for Resonances Decaying to Boson Pairs Enrico Junior Schioppa	Probe Light Scalars in 2HDMs at FASER Huayang Song	Probing Baryonic Dark Matter Models with Gravitational Waves Bartosz Fornal
6:30		The Hubble Constant in the Axi-Higgs Universe Hoang Nhan Luu	ATLAS measurements of CP violation and rare decays processes with beauty mesons Pavel Reznicek	Artificial Event Variables for Collider Analyses Prasanth Shyamsundar	Searches for new physics in events with jets in the final state in CMS Xuli Yan	Results on rare and new top quarks interactions, including EFT, in CMS Clara Ramon Alvarez	

Parallel Session: Tuesday, May 25 (Early)

	Higgs I	Cosmology III	Flavor III	SUSY I	BSM III	BSM VIII	DM III
Chair	Gang Li	Andrew Long	Da Liu	Stephen Martin	Richard Ruiz	Jure Zupan	Flip Tanedo
2:00	Searches for Higgs boson pair production with the full LHC Run 2 dataset in ATLAS Sean Joseph Gasiorowski	Constraints on Axions from Cosmic Distance Measurements Manuel Buen-Abad	The SM expectation for muon $g-2$ Hartmut Wittig	Resolving a challenging supersymmetric low-scale seesaw scenario at the ILC Joel Jones-Perez	Searches for new phenomena in leptonic or hadronic final states using the ATLAS detector Avik Roy	Light Scalar and Lepton Anomalous Magnetic Moments Vishnu Padmanabhan Kovilakam	Freeze-in Dark Matter from a Minimal B-L Model and Possible Grand Unification Nobuchika Okada
2:15	Four-fermion operators in Higgs production and decay Lina Alasfar	Cosmological Tension of Ultralight Axion Dark Matter and its Solutions Jacob Leedom		Flavored Gauge Mediated Supersymmetry Breaking Models with Discrete Non-Abelian Symmetries Shu Tian Eu	Searches for vector-like quarks at CMS Francesco Fabozzi	Electroweak Symmetry Non-restoration in UV-complete Models with New Fermions Yu Hang Ng	Testing freeze-in with Z' bosons MaiRa Dutra
2:30	Higgs Flavor and Multi-Higgs Production Samuel Homiller	CMB birefringence due to ultra-light axion strings Mudit Jain	$R_{D^{(*)}}$, $R_{K^{(*)}}$ and muon $g-2$ anomalies in RPV supersymmetry and the discovery prospect at LHC Fang Xu	Exploring color-octet scalar parameter space in minimal R-symmetric models Matthew Smylie	The anomalous $Zb\bar{b}$ couplings: From LEP to LHC Bin Yan	Freeze-in Leptogenesis via Dark Matter Oscillations Justin Berman	Spin-2 mediated Dark Matter in Warped Extra-Dimensions Arturo De Giorgi
2:45	Recent HH results (resonant and non-resonant) in CMS Lata Panwar	Gravity waves from nonlinear dynamics of axion-like particles Aleksandr Chatrchyan	Searches for lepton flavour and lepton number violation in K^+ decays Joel Christopher Swallow	Color-octet scalars in Dirac gaugino models with broken R symmetry Taylor Murphy	Single Vector-Like quark production via chromo-magnetic moment at the LHC Xing Wang	Crunching dilaton, hidden naturalness Ameen Ismail	Exploring the Co-SIMP Dark Sector Aditya Parikh
3:00	Di-Higgs resonance searches in weak boson fusion Rahool Kumar Barman	White Dwarfs as Axion Probes Christopher Dessert	Flavourful Feebly-Interacting Particles for flavour and $g-2$ anomalies Luc Jean Marie Darmé	Landscape Higgs and sparticle mass predictions from a logarithmic soft term distribution Shadman Salam	Scalar Leptoquark Pair Production at Hadron Colliders Christoph Borschensky	Collider and GW complementarity in the 2HDM Ajay Kaladharan	Prospect of a light pseudoscalar dark matter Shreyashi Chakdar
3:15	CP-Violation in 2HDM is Discrete, but Triple Higgs can Reveal Xiaoping Wang	Flavor-specific Neutrino self interaction in Cosmology Subhajit Ghosh	New Contributions to Flavor Observables from Left-Right Symmetric Models with Universal Seesaw Ritu Dcruz	Sparticle and Higgs boson masses from the landscape: dynamical vs. spontaneous SUSY breaking Howard Baer	Searches for new physics in events with leptons in the final state in CMS Jie Xiao	Vacuum stability in dynamical seesaw model Sanjoy Mandal	Phenomenology of Dark matter in two higgs doublet models with complex scalar singlet Juhi Dutta
3:30	Strong First-Order Electroweak Phase Transitions in the Standard Model with a Singlet Extension Anthony Hooper	Resonant neutrino self-interactions in astrophysical spectra Jeffrey Hyde	Explaining $g_\mu - 2$ and $R_{K^{(*)}}$ using the light mediators of $U(1)_{T3R}$ Sumit Ghosh	Moduli Stabilisation and the Statistics of SUSY Breaking in the Landscape Igor Broeckel	Searches for leptoquarks with the ATLAS detector Andre Sopczak	Interference Effect in LNV and LNC Meson Decays for Left Right Symmetric Model Siddharth Prasad Maharathy	A model of electroweakly interacting non-abelian vector dark matter Motoko Fujiwara
3:45	Triplet Charged Higgs bosons at the LHC Priyotosh Bandyopadhyay		Testing Lepton Flavor Universality at the Z Pole Lingfeng Li	Parameter Inference from Event Ensembles and the Top-Quark Mass Katherine Fraser	$\geq 4\mu$ signal from a vector-like lepton decaying to a muon-philic Z' boson at the LHC Junichiro Kawamura	Multi-charged TeV scale scalars and fermions in the framework of a radiative seesaw model Avnish .	Continuum-Mediated Self-Interacting Dark Matter Ian Chaffey
4:00	Coffee Break						

Parallel Session: Tuesday, May 25 (Late)

	Higgs II	Cosmology IV	Neutrino I	SUSY II	BSM IV	BSM IX	DM IV
Chair	Samuel Homiller	Bhupal Dev	Bei Zhou	Howard Baer	Ian Lewis	David Shih	Kaustubh Agashe
4:30	Flavorful Composite Higgs Models Yi Chung	Gravitational Waves as a Big Bang Thermometer Jan Schuette-Engel	Search for heavy neutral lepton production at the NA62 experiment Marco Mirra	Exploring Uncharted Soft Displaced Vertices in Open Data Daneng Yang	New spin 0 physics from TeV to THz Jesse Liu	Forward Physics Facility Felix Kling	Dark Matter with a Bounce Bibhushan Shakya
4:45	Indirect CP probes of the Higgs-top-quark interaction: current LHC constraints and future opportunities Henning Bahl	Precision gravitational wave spin observables from EFT Brian Alan Pardo	The neutrinoless $\beta\beta$ process at the LHC Richard Ruiz	Higgsino Dark Matter in Electron Electric Dipole Moments Benjamin Sheff	Complementary exploring low mass vector dark matter, dark photon and dark Z' Raymundo Ramos	Anomaly-free U(1) and the proton charge radius Carlos Alvarado	Electroweak Confinement and $SU(2)_L$ Dark Matter Jessica N. Howard
5:00	Resurrecting bbh with Kinematic Shapes Zhuoni Qian	Gravitational waves from first-order phase transition during inflation Haipeng An	Heavy Dirac/Majorana Fermion Decays Kevin Kelly	Distribution of supersymmetry μ parameter and Peccei-Quinn scale f_a from the landscape Robert Wiley Deal	Searching for dark gauge bosons in next-generation neutrino experiments Doojin Kim	Resonant Leptogenesis and Collider Signals from Discrete Flavor and CP Symmetries Garv Chauhan	Baryogenesis and Dark Matter from Dark, 1st Order Phase Transitions Robert McGehee
5:15	Higgs to Charm Quarks in Vector Boson Fusion plus a Photon Sze Ching Iris Leung	Gravitational Wave Backgrounds from Low Scale Inflation Simran Nerval	Heavy Neutrinos at Future Linear e+e- Colliders Krzysztof Mekala	A Supersymmetric Flavor Clockwork Sri Aditya Gadam	Disentangling SMEFT operators with future low-energy PVES experiments Daniel Wiegand	The LHC limits on the B-anomalies motivated U_1 leptoquark models. Subhadip Mitra	Joint CMB and BBN Constraints for Light Dark Sectors with Dark Radiation Cara Giovanetti
5:30	Softly Shifting Away from Dark Matter Direct Detection: Reviving the Higgs Portal Ling-Xiao Xu	DarkFlux: a new dark matter phenomenology tool Linda Carpenter	Neutrino masses from a pseudo-Dirac bino and its detection prospects Julia Gehrlein	Searches for strong production of supersymmetric particles with the ATLAS detector Yang Liu	Hints of Light New Physics at XENON1T and Muon g-2 Experiments Tessio Melo	Unified Framework for B-Anomalies, Muon g-2, and Neutrino Masses Anil Thapa	A Reconstruction Conjecture: Deciphering the Structure of the Dark Sector from the Matter Power Spectrum Fei Huang
5:45	Higgs boson couplings to quarks and leptons with the ATLAS experiment Eleanor Jones	Can we observe the QCD phase transition-generated gravitational waves through pulsar timing arrays? Tina Kahniashvili	New signatures of decaying HNLs in large scale detectors Ryan Plestid	Searches for third generation SUSY particles with the CMS experiment Jon Wilson	Model-independent considerations of dark sectors Rashmish Mishra	Bayesian Density Estimation with Voronoi Tessellations on Spatial Data Alex Roman	Extracting Dark-Matter Velocities from Halo Masses: A Reconstruction Conjecture Kevin Manogue
6:00	A handle on anomalous top-Higgs couplings in top quark pair production through EW loops Till Martini	First result on cosmological first-order phase transitions with LIGO-Virgo's three observing run data Huaike Guo	Supersymmetric minimal U(1) $_X$ model at the TeV scale with right-handed Majorana neutrino dark matter Desmond Villalba	Searches for electroweak production of supersymmetric particles with the ATLAS detector Batool Safarzadeh Samani	Searching for soft leptons in compressed spectra with a Boosted Decision Tree Alyssa Horne	The Weak Eightfold Way: $SU(3)_W$ unification of the electroweak interactions Hung P. Q.	Superheavy scalar dark matter from gravitational particle production in α -attractor models of inflation Siyang Ling
6:15	Recent Higgs measurements in CMS Soumya Mukherjee	Gravitational waves with astrometric data Deyan Mihaylov	Phenomenology of the minimal inverse seesaw model with Abelian flavour symmetries Henrique Brito C�mara	CP-Violating Invariants in the SMEFT Emanuele Gendy Abd El Sayed	Recent Results of Dark Sector Searches with the BaBar Experiment Bertrand Echenard	SMEFT Effects on the Angular Orientation of Jet Splitting Products. Matthew Biasucci	Higgs-portal dark matter in brane world cosmology Taoli Liu
6:45	Cocktail Hour & Award Ceremony						

Parallel Session: Wednesday, May 26 (Early)

	Higgs III	Cosmology V	Neutrino II	QCD & EW I	BSM V	DM VIII	DM V
Chair	Lingfeng Li	Stefano Profumo	Kevin Kelly	Sida Lu	Tatha Ghosh	Bibhushan Shakya	Nobuchika Okada
2:00	Studies of the CP properties of the Higgs boson at the ATLAS experiment Ana Luisa Carvalho	Black Hole Production of Monopoles the Early Universe Saurav Das	Predictions for the Leptonic Dirac CP-Violating Phase Alexander Stuart	Analytic continuations of two loop four point master integrals for amplitudes with vector boson final states Sushruth Muralidharan	The THDMa revisited Tania Robens	Neutron stars as Pauli batteries: probing the neutron portal with internal heating of pulsars Nirmal Raj	Low-mass inelastic dark matter direct detection via the Migdal effect Jason Kumar
2:15	Searches for new physics in Extended Higgs Sectors in CMS Tanvi Wamorkar	Dark matter and dark radiation from primordial black holes Jeremy Auffinger	Neutrino masses from simple scoto-seesaw model with spontaneous CP violation D. Barreiros	NNLO single-top-quark production and decay: Discrepancies resolved, PDFs challenged Zack Sullivan	Probing the minimal $U(1)_X$ model at future electron-positron colliders via the fermion pair-production channel Arindam Das	Neutron star heating by inelastic dark matter Aniket Joglekar	Dark Matter Daily Modulation With Anisotropic Organic Crystals Carlos Blanco
2:30	Searches for BSM Higgs bosons at ATLAS Sanmay Ganguly	Precision Calculation of Dark Radiation from Spinning Primordial Black Holes and Early Matter Dominated Eras Barmak Shams Es Haghi	Leptogenesis from $SU(5)$ GUT with \mathcal{T}_{13} Family Symmetry Moinul Hossain Rahat	NLO corrections to $W^+Z\gamma$ production in SM and tree-level effects of dimension-eight operators in SMEFT at the LHC Huanfeng Cheng	Multi-lepton anomalies at the LHC and implications Bruce Mellado	Macroscopic Dark Matter Constraints from the Red Giant Branch Helium Flash Zachary Johnson	Sources of Low-energy Events in Sub-GeV Dark Matter Detectors Peizhi Du
2:45	Beyond the Standard Model Effective Field Theory: The Singlet Extended Standard Model and Higgs Flts Ian Lewis	Signals of primordial black holes at gravitational wave interferometers Ethan Villarama	A scotogenic model for realistic neutrino mixing with S_3 symmetry Soumita Pramanick	Multiboson measurements at CMS Shilpi Jain	Phenomenology at the LHC of composite particles from strongly interacting Standard Model fermions via four-fermion operators of Nambu-Jona-Lasinio type Francesco Romeo	Probing dark matter interactions below the neutrino floor with PopIII stars Cosmin Ilie	Sources of Low-Energy Backgrounds in SENSEI Mukul Sholapurkar
3:00	Combined Higgs boson measurements by the ATLAS experiment and their Effective Field Theory interpretations Jiayi Chen	Dark Black Holes in the Mass Gap Lillian Santos-Olmsted	Study of tau neutrino production with nuclear emulsion at CERN-SPS Dstau Coll.	Mixed EW-QCD three-loop leading fermionic corrections to electroweak precision observables Lisong Chen	(New) Physics at a multi-TeV Muon Collider Antonio Costantini	Nuclear Fusion inside Dark Matter Javier Fernández Acevedo	Superfluid EFT for sub-GeV dark matter detection Yining You
3:15	Higgs Production in Association with a Dark-Z at Future Electron Positron Colliders Pierce Giffin	Phenomenology of magnetic black holes with electroweak-symmetric coronas Mrunal Korwar	Quasi-Dirac neutrinos and the Baryon Asymmetry of the Universe Alberto Tonero	CuTe-MCFM: Fiducial q_T resummation for color-singlet processes at N ³ LL+NNLO Tobias Neumann	Searching for New Physics at Muon Colliders Cari Cesarotti	The 511 keV Excess and Primordial Black Holes in our Solar System Celeste Keith	Etching Plastic Searches for Dark Matter Amit Bhoonah
3:30	Determination of Higgs boson properties in decays to bosons at the ATLAS experiment Anamika Aggarwal	The Price of Curiosity: Information Recovery in de Sitter Space Lars Aalsma	Exploring neutrino long-range interactions in the cosmos Ivan Esteban	Two-loop QCD corrections to Wbb production at hadron colliders Heribertus Bayu Hartanto	Renormalization of scalar EFTs at higher orders Weiguang Cao	Probing light dark matter particles with astrophysical experiments Tanmay Poddar	Self-interacting Inelastic Dark Matter in the Light of XENON1T Excess Manoranjan Dutta
3:45	Results and Prospects of Radiative and Electroweak Penguin Decays at Belle (II) Soumen Halder	Hot Qubits on the Horizon Gregory Kaplanek	Transient Sources and the light curves of BSM-induced neutrino echoes in the optically thin limit Ali Kheirandish	Electroweak Restoration at the LHC and Beyond Samuel Lane	Unveiling the Higgs at FCC-hh with new diboson precision measurements. Alejo Rossia	Multiscatter Multi-component Capture of Dark Matter Caleb Levy	Muon $(g-2)$ and XENON1T Excess with Dark Matter in $L_\mu - L_\tau$ Model Satyabrata Mahapatra
4:00	Coffee Break						

Parallel Session: Wednesday, May 26 (Late)

	Higgs IV	Theory & Xtra Dim.	Neutrino III	QCD & EW II	BSM VI	DM IX	DM VI
Chair	Dorival Goncalves	Peizhi Du	Pedro Machado	Tobias Neumann	Brian Shuve	Joshua Berger	Juri Smirnov
4:30	A suppressed Higgs coupling in a classically conformal extension of the standard model Victor Baules	An Environmental Solution to the Strong CP Problem Tim M.P. Tait	CP-Violating Neutrino Non-Standard Interactions in Long-Baseline-Accelerator Data Peter Denton	Jet and Photon Measurements using the ATLAS detector Christian Wiel	Minimal SU(5) Unification Shaikh Saad	The Primordial Black Holes Variations Stefano Profumo	Cancellation in Dark Matter-Nucleon Interactions: the Role of Non-Standard-Model-like Yukawa Couplings Bibhabasu De
4:45	Higgs Mechanism from On-Shell Massive Amplitude Da Liu	Lorentz Invariance from Locality of Massless Spin 2 Jacob Litterer	Neutrino Decoherence in Simple Open Quantum Systems Bin Xu	Multi-boson production including photon-photon fusion at ATLAS Prajita Bhattarai	Characterising Different Beyond the Standard Model Signatures at Present and Future Colliders Saunak Dutta	Radiofrequency Dark Photon Dark Matter across the Sun Jia Liu	Closing the window for WIMPy inelastic dark matter with heavy nuclei Ningqiang Song
5:00	Form Factor Effects in Higgs Couplings Pedro Bittar	Scattering Amplitudes of Massive Spin 2 particles in extra dimensional theories Dipan Sengupta	Axial and pseudoscalar form factors from charged current quasielastic neutrino-nucleon scattering Oleksandr Tomalak	Towards Mixed QCD-EW corrections to Drell-Yan processes beyond resonance region Syed Mehedi Hasan	Probing UV-completion via Gravitational Waves: Pecei-Quinn Phase Transition Anish Ghoshal	Visible Dark Photon Flashes from Neutron Star Mergers Melissa Diamond	Improved Calculation of Dark Matter-Electron Scattering in Semiconductors Tanner Trickle
5:15	Vacuum stability and perturbativity with extended Higgs and neutrinos Shilpa Jangid	Scattering Amplitudes of Massive Spin-2 Particles in Extra Dimensional Theories Kirtimaan Mohan	About distinguishing different neutrinoless double beta mechanisms Oliver Scholer	RESOLVING THE DILEPTONIC tt COMBINATORIAL PROBLEM Zhongtian Dong	Detecting new forces in the gravitational wave background Benjamin Lehmann	The causal structure of superfluid dark matter Mark Hertzberg	Implications on new physics from neutrino non-standard interactions in the EFT framework Yong Du
5:30	Off-shell Higgs Couplings in $H^* \rightarrow ZZ \rightarrow l\nu\nu$ Han Qin	geoSMEFT and some applications Michael Robert Trott	Neutrinoless double beta decay and left-right symmetry Gang Li	Quark and Gluon Contents of a Lepton at High Energies Yang Ma	Viable Full Unification of the Standard Model into E_8 Francisco J. De Anda N.	Sterile Neutrino Dark Matter via Secret Neutrino Interactions Walter Tangarife	Twin Higgs Portal Dark Matter Shayne Gryba
5:45	Directly Probing the Higgs-top Coupling at High Scales Roshan Mammen Abraham	A Real Time Approach to Quantum Tunneling Neil Shah	Explaining the MiniBooNE Excess Through a Mixed Model of Oscillation and Decay Nicholas Kamp	$W^+ W^- H$ production through bottom quarks fusion at hadron colliders Biswajit Das	Parity Solutions to the Strong CP Problem Amara Mccune	keV sterile neutrino dark matter enabled by a dark photon Gonzalo Alonso-Álvarez	Galactic Acceleration from Pulsar Timing Reza Ebadi
6:00	Renormalizable models of flavor-specific scalars Mudit Rai	The Chirality-Flow Formalism for Amplitude Calculations Andrew Lifson	Correlating Muon $g-2$ Anomaly with Neutrino Magnetic Moments Sudip Jana	Resurgence of the QCD Adler function Juan Carlos Vasquez	Positivity in Multi-Field EFTs Xu Li	Thermal Squeezeout of Dark Matter Pouya Asadi	ATLAS results on charmonium and B,c and exotic heavy hadrons Leonid Gladilin
6:15	Merging and Matching in Herwig 7 using HJets Terrance Figy	Real Classical Geometry with arbitrary deficit parameter(s) α_I in Deformed Jackiw-Teitelboim Gravity Davood Momeni	The Singly-Charged Scalar Singlet as the Origin of Neutrino Masses Tobias Felkl	Measurements of V+jets production in CMS Kadir Ocalan	TeV-scale Lepton Number Violation: $0\nu\beta\beta$ -decay, the origin of matter and energy frontier probes Sebastian Urrutia-Quiroga	Glueball dark matter in SU(N) lattice gauge theory Nodoka Yamanaka	Search for rare electroweak decay $B^+ \rightarrow K^+ \nu\nu$ in early Belle II dataset Cyrille Praz
6:30	Recent results in Heavy Flavour and Quarkonia Physics from CMS Chandiprasad Kar	Magnetic field from sphaleron decay and bubble collisions Ligong Bian	Detecting and studying high-energy neutrinos with FASERnu at the LHC Tomoko Ariga	Top quark pair and single top cross sections in CMS Javier Cuevas	Searches for SUSY in hadronic final states with the CMS experiment Uttiya Sarkar	Search for BSM Higgses at the HL-LHC Amit Adhikary	