Session Program

25-29 Aug 2025

Lepton-Photon 2025

Parallel

Madison, WI, Monona Convention Center

Monday 25 August

14:00-14:20	
	gnet Development Program (MDP) Roadmap for future particle physic
colliders.	
Speaker Stephen Gourl	ау
14:20-14:40	800 MHz SRF R&D for FCC
Speaker	
Kellen McGee	
14:40-15:00	
Rapidly Pu	sed Schrotron Acceleration Chain for a Fermilab Sited Muon Collider
Speaker	
Kyle Capobian	co-Hogan
15:00-15:20	
	n of Generating Functions For Dynamic Aperture Enlargement
Speaker	<i>y</i> ,
Mr Kevin Hami	lton
	Dark Sectors (Direct/Indirect) ation: Madison, WI, Monona Convention Center
	ation: Madison, WI, Monona Convention Center
Session Loc 14:00-14:20 Speaker Ann Wang	ation: Madison, WI, Monona Convention Center
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Session Loc 14:00-14:20 Speaker Ann Wang 14:20-14:40 The SABRE 14:40-15:00	ation: Madison, WI, Monona Convention Center Status of LUX-ZEPLIN (LZ) Experiment South Experiment at the Stawell Underground Physics Laboratory
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Speaker

Alexey Petrov

14:30-14:50 Quantum Tomography in Neutral Meson and Anti-meson System

Speaker

Kun Cheng

14:50-15:10

Analysis of B ->VV decays under \$\text{SU}(3)_{\text{F}} \otimes \text{SU} (2)_{\text{spin}}\$

Speaker

Ms Ipsita Ray

15:10-15:30

Precision measurement of the branching fraction for the decay $\colored colored color$

Speaker

Fabrizio Bianchi

15:30 14:00

Parallel: Heavy BSM Searches at Colliders 2

Session | Location: Madison, WI, Monona Convention Center

14:00-14:20

Self Consistent Thermal Resummation: A Case Study of the Phase Transition in 2HDM

Speaker

Dr Subhojit Roy

14:20-14:40

Search for rare decay of SM Higgs to light scalars in the CMS experiment

Speaker

Niki Saoulidou

14:40-15:00

Searches for Beyond Standard Model Higgs boson decays (including low mass resonances)

Speakers

ATLAS Speaker, Evelin Meoni

15:00-15:20 Searches for additional Higgs bosons (high & low mass) at CMS

Speaker

Niki Saoulidou

15:30

14:00

Parallel: Neutrino Physics 2

Session | Location: Madison, WI, Monona Convention Center

14:00-14:20

Understanding Cross Section Model Uncertainties in Neutrino Experiments

Speaker

Anjan Giri

14:20-14:40

Neutrino-nucleus interactions and the quest for new and precision physics searches in neutrino experiments

Speaker

Dr Vishvas Pandey

14:40-15:00 Neutrino cross-section results from T2K

Speaker

Dr Anna Holin

15:00-15:20 Neutrino Interaction Measurements with the SBND Experiment

Speaker

Afroditi Papadopoulou

15:30

14:00

Parallel: Top Physics 2

Session | Location: Madison, WI, Monona Convention Center

14:00-14:20

Quantum Entanglement and Bell Inequality Violation in Semi-Leptonic Top Decays

Speaker Arthur Wu

14:20-14:40 ATLAS results on top, ttbar and associated cross sections

Speakers

ATLAS Speaker, Evelin Meoni

14:40-15:00 Cross section measurements of top quark production

Speaker

Niki Saoulidou

15:00-15:20 ATLAS results on top quark mass

Speakers

ATLAS Speaker, Evelin Meoni

15:30

Tuesday 26 August

14:00-14:20 Stealth and RPV SUSY search Speaker	nes with CMS
Speaker	
Niki Saoulidou	
14:20-14:40 Recent searches for SUSY pa	articles with CMS with MET
Speaker Niki Saoulidou	
14:40-15:00	
Search for Higgs boson decays into a pair \gamma\gamma\tau\tau\$ final state using with the ATLAS detector	• •
Speakers ATLAS Speaker, Evelin Meoni	
15:00-15:20	
Physics results with the CMS Precision Pr	oton Spectrometer and projections for
the HL-LHC with PPS2	
Speaker Niki Saoulidou	
iession Location: Madison, WI, Monona Convention C 14:00-14:20 Exotic hadron studies in ATL Speakers ATLAS Speaker, Evelin Meoni	
14:20-14:40 Charmonium(-like) states at	BESIII
Speaker Fabrizio Bianchi	
14:40-15:00 Hadron spectroscopy at Bell	e and Belle II
Speaker	
Steven Robertson	
15:00-15:20 Charmed baryon decays at B	ESIII
Speaker	
Speaker	
Fabrizio Bianchi	

Speakers

ATLAS Speaker, Evelin Meoni

14:20-14:40 Di-Higgs searches at CMS

Speaker

Niki Saoulidou

14:40-15:00 Recent results on measurements of the Higgs boson in ATLAS

Speakers

ATLAS Speaker, Evelin Meoni

15:00-15:20 Higgs physics at a 10 TeV Muon Collider

Speakers

Alessio Gianelle, Davide Zuliani, Donatella Lucchesi, Leonardo Palombini, Lorenzo Sestini, Massimo Casarsa, Paolo Andreetto

15:30

14:00

Parallel: Instrumentation 2

Session | Location: Madison, WI, Monona Convention Center

14:00-14:20

Operational Experience and Performance with the ATLAS Pixel detector at the Large Hadron Collider at CERN

Speaker

ATLAS Speaker

14:20-14:40 Phase-2 Upgrade of the ATLAS Inner Tracker

Speaker

ATLAS Speaker

14:40-15:00 The ePIC Silicon Vertex Tracker: Design and Status

Speaker

Rosario Turrisi

15:00-15:20

Precision timing at the HL-LHC with the CMS MIP Timing Detector: current progress on validation and production

Speaker

Niki Saoulidou

15:30

14:00

Parallel: Quark Flavor 2

Session | Location: Madison, WI, Monona Convention Center

14:00-14:20 Recent results on (semi)-leptonic D decays at BESIII

Speaker

Fabrizio Bianchi

14:20-14:40

Measurement of B meson production fractions in proton-proton collisions at 13 TeV using hadronic open-charm and charmonium decays

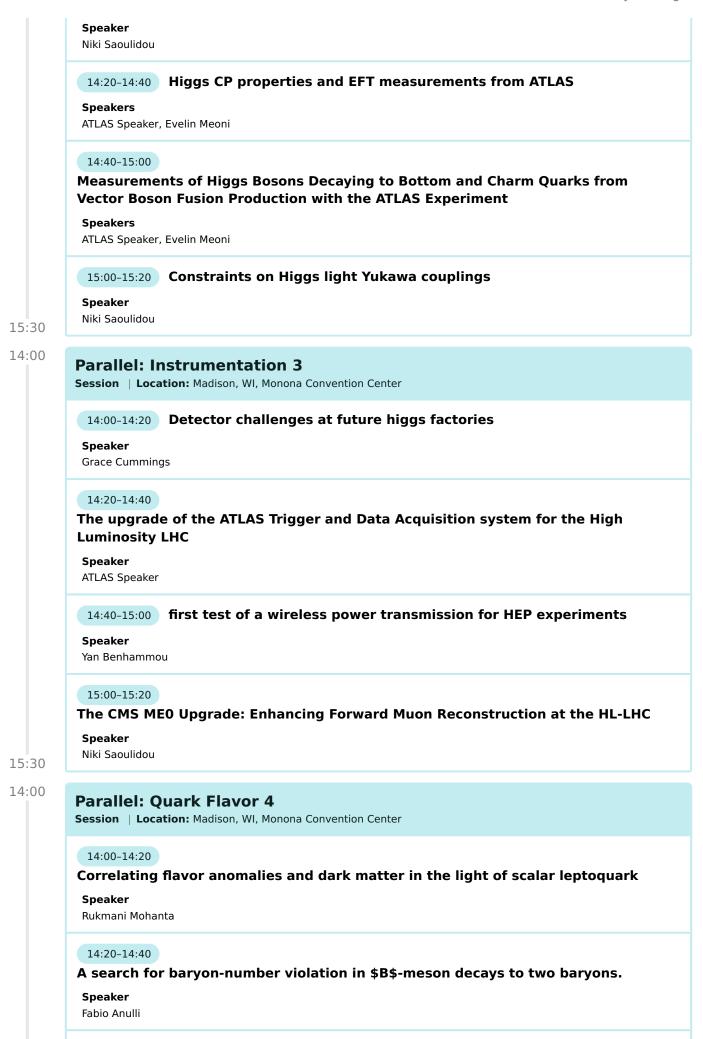
Speaker

Taeun Kwon

14:40-15:00 Measureme	ents of semileptonic and leptonic \$B\$ decays at Belle and Belle II
Speaker Steven Roberts	son
15:00-15:20	Recent results from LHCb on charged-current decays of b-hadrons
Speaker Ching-Hua Li	

Wednesday 27 August

14:00-14:20	Searches for Supersymmetry with compressed scenarios
Speaker Niki Saoulidou	
14:20-14:40	
	or strong production of supersymmetric particles with the ATLAS
detector	
Speakers ATLAS Speaker	, Evelin Meoni
14:40-15:00	Searches in CMS for new physics in final states with leptons
Speaker Niki Saoulidou	
15:00-15:20	Searches for new physics using leptons with the ATLAS detector
Speakers	
ATLAS Speaker	, Evelin Meoni
	ladron Physics 2 ation: Madison, WI, Monona Convention Center Spin and symmetry properties of all-charm tetraguarks
Session Loca	•
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14:40-15:00 Heavy flavour hadron production and decays at ATLAS

Speakers ATLAS Speaker, Evelin Meoni

15:30

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Thursday 28 August

Speaker Aleena Rafique 14:20-14:40 HGPflow: Hypergraph learning for full event reconstruction at pp and e+e-colliders Speakers Etienne Dreyer, Francesco Armando Di Bello, Nilotpal Kakati 14:40-15:00 Synthetic Training and Representation Bridging in Reconstruction Domains Speaker Wonyong Chung 15:00-15:20 An Al Agent for Particle Physics Documentation Speaker Abhishikth Mallampalli Parallel: Exotic Searches 3 Session Location: Madison, WI, Monona Convention Center 14:00-14:20 Searches for new physics in CMS in events with photons in the final state Speaker Nki Saoulidou 14:20-14:40 Searches for electroweak production of supersymmetric particles with the AT Getector Speakers ATLAS Speaker, Evelin Meoni 14:40-15:00 Searches in CMS for long-lived particles and other non-conventional signature
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Speaker
Niki Saoulidou

ATLAS Speaker

14:00-14:20	Light Meson Spectroscopy at BESIII
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Speaker Fabrizio Bianchi	
14:20-14:40	Light Meson decays at BESIII
Speaker Fabrizio Bianchi	
14:40-15:00	Measurement of the relative phase between strong and EM decay
Speaker Fabrizio Bianchi	
15:00-15:20	Search for charm rare decays at BESIII
Speaker Fabrizio Bianchi	
	earches at Colliders
	tion: Madison, WI, Monona Convention Center
14:00-14:20	Exploring new physics in the Dark Sector at CMS
Speaker Niki Saoulidou	
14:20-14:40	Heavy QCD axion with enhanced VBS production at Muon Collider
Speaker Peiran Li	
14:40-15:00	Recent Progress of DarkSHINE R&D
Speaker	
Haijun Yang	
15:00-15:20 Searches fo Experiment	r hadronically-decaying heavy vector bosons from the ATLAS
Speakers ATLAS Speaker,	Evelin Meoni
	op Physics 3 tion: Madison, WI, Monona Convention Center
14:00-14:20	ATLAS results at the ttbar threshold
Speakers ATLAS Speaker,	Evelin Meoni
14:20-14:40	EFT based searches in the top quark sector

Speakers

ATLAS Speaker, Evelin Meoni

15:00-15:20 Measurements of rare top production and their BSM interpretations

Speaker

Niki Saoulidou

15:30