#### **Session Program**

21-25 Jul 2025

## **PASCOS 2025**

# Particle Phenomenology

Durham

### Monday 21 July

-	16:00-16:20 Implications of Sagittarius A-star on the gamma-ray searches of Bino dark matter with muon g-2		
<b>Speaker</b> Utpal Chattopa	-		
16:20-16:40	Multi-component Dark Matter in a simplified E6SSM model		
<b>Speaker</b> Shaaban Khalil			
16:40-17:00	Revised phenomenology of new physics particles in GeV mass range		
<b>Speaker</b> Maksym Ovchy	nnikov		
17:00-17:20 Capture of Speaker Jaime Hoefken	dark matter in neutron stars through ALP mediator lepton interaction Zink		
Capture of Speaker			
Capture of Speaker Jaime Hoefken	Zink		
Capture of Speaker Jaime Hoefken 17:20-17:40 Speaker	Zink		

## Tuesday 22 July

<b>Speaker</b> Harri Waltari	
Harri Waltari	
16:20-16:40	
Perturbative	e aspects of the electroweak phase transitions in the cxSM
Speaker	
Andrii Dashko	
16:40-17:00	Importance of Loop Effects in Probing Lepton Number Violation
Speaker	
Ana Martín Galá	IN
17:00-17:20	Sea dynamics in the octupole moments of baryons
Speaker	
Preeti Bhall	
17:20-17:40	
Explaining 9	95 (or so) GeV Anomalies in the 2-Higgs Doublet Model Type-I
Speaker	
Akshat Khanna	
17:40-18:00	Low-scale Leptogenesis in the vSMEFT
Speaker	
Sascha Weber	
	Star shearing season: transient signals from black hole formation

### Thursday 24 July

16:00-16:20	Flavour and cosmological probes of Diracon models
<b>Speaker</b> Antonio Herrero	Brocal
16:20-16:40	Constraining Non-Perturbative Parameters in Inclusive Ab Decays
Speaker	
Blazenka Melic	
16:40-17:00	
Axion dark	matter: late-Universe consequences of early-Universe physics
Speaker	
Ciaran O'Hare	
17:00-17:20	Thermodynamics and Phase Structure of the SMEFT
Speaker	
Maria Cristina F	iore
17.00.17.40	
17:20-17:40	machanism from an extended $f(1)/2$ 1 times $f(2)/2$ times $I(1)/2$
electroweal	mechanism from an extended \$SU(2)_1 \times SU(2)_2 \times U(1)_Y\$ < symmetry
Speaker	er
lavier Perez-Sol	
Javier Perez-Sol	
Javier Perez-Sol 17:40-18:00	
17:40-18:00	ngs and domain walls of the QCD quark condensate with and without
17:40-18:00	
17:40-18:00 Cosmic strip	
17:40-18:00 Cosmic strin hidden axio	
17:40-18:00 Cosmic strin hidden axio Speaker Anja Stuhlfauth	n
17:40-18:00 Cosmic strin hidden axio Speaker Anja Stuhlfauth 18:00-18:20	
17:40-18:00 Cosmic strin hidden axio Speaker Anja Stuhlfauth	n The Fate of Magnetic Monopoles in the Early Universe

## Friday 25 July

14:00-14:20	
	trino dark matter production in lepton asymmetric universe and it nal implications
<b>Speaker</b> Kentaro Kasai	
14:20-14:40	Saving protons (and SUSY) with flavor symmetry
<b>Speaker</b> Akifumi Chitose	2
14:40-15:00	Symmetric Architecture Design for LHC Phenomenology
<b>Speaker</b> Vishal Ngairang	jbam
15:00-15:20	твс
<b>Speaker</b> Miguel Crispim	Romao
15:20-15:40	Rediscovering the Standard Model with Al
<b>Speaker</b> Pellegrino Piant	adosi

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