Session Program

21-25 Jul 2025

PASCOS 2025

Plenary session

Durham

Monday 21 July



Tuesday 22 July

9:00	Plenary session Session Location: CLC 013
	09:00-09:30 The Dark Matter distribution of the Milky Way (its uncertainties and their impact on searches for new physics) Speaker Prof. Fabio locco
	09:30-10:00 Higgs and ALP-Higgs near criticality at future colliders Speaker Belen Gavela
0:30	10:00-10:30 BSM Physics at the PTA Frontier Speaker Kai Schmitz
1:00	Plenary session Session Location: CLC 013
	11:00-11:30 Bootstrapping EFTs Speaker Alex Pomarol
	11:30-12:00 Exploring the Boundaries of Technical Naturalness Speaker Matthew McCullough
2:30	12:00-12:30 Al in Fundamental Physics - Hype or Future? Speaker Tilman Plehn
4:00	Plenary session Session Location: CLC 013
	14:00-14:30 New light particles in B to K invisible decays Speaker Jernej Kamenik
	14:30-15:00 Searches for Low-Mass Dark Matter Speaker Clara Murgui
	15:00-15:30 Quantum and quantum-inspired algorithms for HEP quantum simulation

Wednesday 23 July

Plenary se	
09:00-09:30	CPV and CKM measurements at LHCb
Speaker Mark Smith	
09:30-10:00	What rare decays and dark sector searches have in common
Speaker Felicia Volle	
10:00-10:30	Tower Power
Speaker Keith Dienes	
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Thursday 24 July

Plenary se	
09:00-09:30 Speaker José Santiago	How large can lepton mixing be?
09:30-10:00 Speaker Eiasha Washee	Dark Sector searches at Belle and Belle II
10:00-10:30 Speaker Koji Hara	B->D(*)taunu and b->s penguin anomalies at Belle and Belle II
Plenary se Session Loca	
11:00-11:30 Speaker Christian Copet	Symmetry Constraints on Defect Dynamics
11:30-12:00 Speaker Magdalena Lari	Machine Learning for String Compactifications
12:00-12:30 Non-inverti Fields	bile Symmetries and Gapped Phases of Four-Dimensional Quantum
Speaker Michele Del Zot	to
Plenary se Session Loca	
14:00-14:30 Astrophysic Speaker Dan Hooper	s and Particle Physics with High-Energy Neutrino Telescopes
14:30-15:00 New physic Speaker Valentina De Ro	s searches with coherent elastic neutrino-nucleus scattering

Friday 25 July

09:00	Plenary session Session Location: CLC 013
	09:00-09:30 CP conservation in the strong interactions
	Speaker Bjorn Garbrecht
	09:30-10:00 First-Order Cosmological Phase Transitions
	Speaker Michael Baker
	10:00-10:30 String theory and experiment: A new hope
10:30	Speaker Nissan Itzhaki
11:00	Plenary session Session Location: CLC 013
	11:00-11:30 Confronting Cosmological Catastrophes
	Speaker Jeremy Sakstein
	11:30-12:00 String cosmology and evolving moduli fields after inflation
	Speaker Ed Copeland
	12:00-12:30 Effective Theories for Quantum Black Holes
12:30	Speaker Francesco Sannino