



# Searching for long-lived particles at the LHC and beyond: Eighth workshop of the LHC LLP Community

## Thursday 19 November 2020

### New ideas: 1 (14:00 - 15:00)

-Conveners: James Beacham; Carlos Vazquez Sierra

time	[id] title	presenter
14:00	[37] Exotic Higgs decays into displaced jets at the LHeC (12'+3')	WANG, Zeren Simon
14:15	[3] Probing Dark Matter with Disappearing Tracks at the LHC (12'+3')	Prof. BELYAEV, Alexander
14:30	[5] Enhancing Sensitivities to Long-lived Particles with High Granularity Calorimeters at the LHC (12'+3')	LIU, Jia
14:45	[10] New directions in BSM searches at FASER and beyond (12'+3')	TROJANOWSKI, Sebastian

### New ideas: 2 (15:20 - 17:20)

-Conveners: James Beacham; Carlos Vazquez Sierra

time	[id] title	presenter
15:20	[15] Extending the reach of FASER, MATHUSLA, and SHiP towards smaller lifetimes using secondary particle production (12'+3')	JODLOWSKI, Krzysztof
15:35	[38] R-parity Violation and Light Neutralinos at ANUBIS and MAPP (12'+3')	GÜNTHER, Julian
15:50	[12] Probing the long lived heavy neutrinos at the colliders (12'+3')	DAS, Arindam
16:05	[2] Long-lived Sterile Neutrinos at the LHC in Effective Field Theory (12'+3')	Mr ZHOU, Guanghui
16:20	[1] Fast convolutional neural networks for identifying long-lived particles in a high-granularity calorimeter (12'+3')	ALIMENA, Juliette
16:35	[16] Dark Pion Searches at Colliders and High Intensities (12'+3')	LI, LINGFENG
16:50	[13] A new trigger for hadronic showers in the CMS muon system sensitive to particles with large lifetimes (12'+3')	DILDICK, Sven
17:05	[44] Uniting low-scale leptogeneses (12'+3')	KLARIC, Juraj

### New ideas: 3 (17:40 - 20:00)

-Conveners: Katherine Pachal; Rebeca Gonzalez Suarez

time	[id] title	presenter
17:40	[6] Identifying the Origin of Long-Lived Particles with MATHUSLA and CMS (12'+3')	BARRON, Jared
17:55	[4] Probing the High-Quality QCD Axion (12'+3')	KUMAR, Soubhik
18:10	[7] LLP and multi-lepton signatures from neutrino mass models (12'+3')	Dr HELO, Juan Carlos
18:25	[8] Searching for Bino-Stop Coannihilation Region in Open Data with Displaced Tracks (12'+3')	AN, Haipeng
18:40	[9] Charming ALPs (12'+3')	SCHERB, Christiane
18:55	[40] Detecting signatures of heavy displaced with input hit-level features (12'+3')	ALBERTSSON, Kim