



# Lake Louise Winter Institute 2022

## Monday 21 February 2022

### Monday: MON-AM - LHC - Victoria (08:25 - 12:00)

-Conveners: Fabrizio Caola

time	[id] title	presenter
08:25	Welcome	
08:30	[271] 10 Years on - The Higgs Boson at the LHC	RUSACK, Roger
09:30	[318] Measurements of the Higgs boson properties and their interpretations with the ATLAS experiment	LUISE, Ilaria
09:45	[319] Probing the nature of electroweak symmetry breaking with Higgs boson pair-production at ATLAS	SWIATLOWSKI, Maximilian J
10:00	[321] Searches for resonances decaying to pairs of heavy bosons in ATLAS	TSAI, Fang-Ying
10:15	Tea break	
10:30	[324] Measurement of top-quark cross sections and properties with the ATLAS detector at the LHC	KEMPSTER, Jacob Julian
10:45	[323] Measurements of associated top quark production and searches for new top-quark phenomena with the ATLAS detector	ASBAH, Nedaa Alexandra
11:00	[322] Measurement of the charge asymmetry in highly boosted top-quark pair production in pp collision data collected by the CMS experiment	BECERRIL GONZALEZ, Hugo Alberto
11:15	[325] Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector	BISWAL, Jyoti Prakash
11:30	[317] Track Reconstruction at Level-1 in CMS for HL-LHC	CRANSHAW, Derek James

### Monday: MON-PM - LHC and Dark Matter - Victoria (16:45 - 20:00)

-Conveners: Roger Rusack

time	[id] title	presenter
16:45	[316] Performing precision measurements and new physics searches at the HL-LHC with the upgraded CMS Level-1 Trigger	MOTTA, Jona
17:00	[353] Search for new physics using top quark pairs produced in association with a boosted Z or Higgs boson in effective field theory	CARAWAY, Bryan
17:15	[327] Searches for strong production of supersymmetric particles with the ATLAS detector	SANTRA, Arka
17:30	[328] Searches for R-parity violating Supersymmetry with the ATLAS Experiment	NGUYEN, Hoang Dai Nghia
17:45	[315] Precision Timing with the CMS MIP Timing Detector	NEU, Christopher
18:00	Tea break	
18:15	[272] Dark matter review	VAN TILBURG, Ken
19:15	[300] Recent results from XENON1T and XENONnT status	ANTOCHI, Vasile Cristian
19:30	[296] DARWIN	BAUR, Daniel

19:45	[297] DEAP-3600
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MIELNICHUK, Courtney
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