

IoP 2021 - Joint APP/HEPP/NP Conference

Monday 12 April 2021

Parallel Stream 5: Higgs Physics I - Remote (13:30-15:00)

-Conveners: Elliot Reynolds

time	[id] title	presenter
13:30	[49] Measurement of the Higgs boson mass decaying to a pair of Z bosons in the four lepton channel using pp collision events collected by the ATLAS detector at CERN	SAOUCHA, Kamal
13:45	[51] The ttH(bb) leptonic analysis at ATLAS	BOOTH, Callum
14:00	[50] A Search with the ATLAS Detector for the Standard Model Higgs Boson Produced In Association with a Top Quark Pair and Decaying to a Bottom Quark Pair (ttH(bb))	Mr THOMAS, Dave
14:15	[52] Constraining the Higgs-top Yukawa Coupling with the ATLAS Experiment at the LHC	CARTER, Thomas Michael
14:30	[53] Adversarial Neural Networks for ttH(yy)	TAKEVA, Emily Petrova
14:45	[54] Search for the Higgs boson decaying to two electrons using the full Run 2 data set collected by the CMS detector at the LHC	DAVIES, Joe

Tuesday 13 April 2021

Parallel Stream 5: Higgs Physics II - Remote (14:45-16:15)

-Conveners: Panagiotis Bellos

time	[id] title	presenter
14:45	[55] Development of a Z+jets dedicated treatment within the scope of the search for the decay of the Higgs Boson to charm quarks with the ATLAS experiment	MENDES JACQUES DA COSTA, Antonio Manuel
15:00	[56] Axion searches in rare Higgs decays at ATLAS	RUBY, Adam James
15:15	[57] A search for invisibly decaying Higgs Bosons in the fully hadronic final state, targeting the ttH and VH production modes	Mr ANTHONY, David Benjamin
15:30	[58] Searches for Higgs boson pair production in the bb $\tau\tau$ final state with 139 fb ⁻¹ of pp collision data with the ATLAS detector	LI, Zhiyuan
15:45	[59] Optimizing the search for pair-production of Higgs Bosons in the bbbb final state using data collected from proton-proton collisions in the ATLAS detector.	BORGNA, Lucas Santiago
16:00	[60] Combining di-Higgs decay channels to measure a combined limit on the di-Higgs cross section with the ATLAS detector	HEHIR, Natasha

Thursday 15 April 2021

Parallel Stream 5: Medical Nuclear Physics - Remote (11:30-12:30)

-Conveners: Laura Harkness

time	[id] title	presenter
11:30	[61] Design of an Imaging Collimator for application in low dose Molecular Breast Imaging	BROWN, Hannah
11:45	[62] Cross-section measurements for the production of theragnostic terbium isotopes at the Birmingham cyclotron facility	TRINDER, Rebeckah
12:00	[63] Prompt gamma-ray measurements with nanoparticles for in vivo range verification and dose enhancement in protontherapy	SONIA, Escribano-Rodriguez
12:15	[64] Improving Gamma-Ray Position Resolution in Pixelated CZT Detectors for use in Molecular Breast Imaging Applications	RINTOUL, Ellis