

Connecting The Dots 2022

Tuesday 31 May 2022

Plenary (09:00 - 10:30)

-Conveners: Salvador Marti I Garcia

time	[id] title	presenter
09:00	[44] Welcome and Introduction	LANGE, David
09:30	[33] Allen in the First Days of Run 3	BOETTCHER, Thomas
10:00	[19] Deep Learning Track Reconstruction for TeV-PeV Cosmic Rays in Space	TYKHONOV, Andrii

Plenary - PCTS conference room 4th floor (11:00 - 12:30)

-Conveners: Salvador Marti I Garcia

time	[id] title	presenter
11:00	[18] Track Finding and Neural Network-Based Primary Vertex Reconstruction with FPGAs for the Upgrade of the CMS Level-1 Trigger System	BROWN, Christopher Edward
11:30	[46] The Tracking at Belle II	ZLEBCEK, Radek ZLEBCEK, Radek
12:00	[43] Learning to Discover workshops	SALZBURGER, Andreas

Plenary - PCTS Conference room, 4th floor (14:00 - 15:30)

-Conveners: Markus Elsing

time	[id] title	presenter
14:00	[14] Implementation of ACTS into LDMX track reconstruction	BUTTI, Pierfrancesco
14:30	[10] Line Segment Tracking in the HL-LHC	SATHIA NARAYANAN, Balaji Venkat
15:00	[9] tracc - GPU Track reconstruction demonstrator for HEP	YEO, Beomki

Plenary - PCTS conference room (4th floor) (16:00 - 18:00)

-Conveners: Markus Elsing

time	[id] title	presenter
16:00	[21] ATLAS ITk Track Reconstruction with a GNN-based Pipeline	ROUGIER, Charline
16:30	[1] Graph Neural Networks for Pattern Recognition & Fast Track Finding	LAD, Nisha
17:00	[22] Graph Neural Networks for Charged Particle Tracking on FPGAs	ELABD, Abdelrahman

Wednesday 1 June 2022

Plenary - PCTS conference room (4th floor) (09:00 - 10:30)

-Conveners: Andreas Salzburger

time	[id] title	presenter
09:00	[24] Vecpar - a portable parallelization library	MANIA, Georgiana
09:30	[47] Present and future of online tracking in CMS	DI FLORIO, Adriano
10:00	[37] Accelerated graph building for particle tracking graph neural nets	VAGE, Liv Helen

Plenary - PCTS conference room (4th floor) (14:00 - 15:30)

-Conveners: Isobel Ojalvo

time	[id] title	presenter
14:00	[13] Event Filter Tracking for the Upgrade of the ATLAS Trigger and Data Acquisition System	MASIK, Jiri
14:30	[20] 4D Track Reconstruction at the sPHENIX Experiment	OSBORN, Joe
14:55	[6] The ATLAS Inner Detector tracking trigger at 13 TeV in LHC Run-2 and new developments on standard and unconventional tracking signatures for the upcoming LHC Run-3	LONG, Jonathan

Plenary - PCTS conference room (4th floor) (16:00 - 17:45)

-Conveners: Isobel Ojalvo

time	[id] title	presenter
16:00	[35] Towards a Track Condensation Network	DEZOORT, Gage
16:20	[27] Graph Neural Network for Three Dimensional Object Reconstruction in Liquid Argon Time Projection Chambers	GUMPULA, Kaushal
16:50	[29] Fast and flexible data structures for the LHCb run 3 software trigger	ESEN, Sevda

Thursday 2 June 2022

Plenary - PCTS conference room (4th floor) (09:00 - 10:00)

-Conveners: Paolo Calafiura

time	[id] title	presenter
09:00	[28] Tracking on GPU at LHCb's fully software trigger	SCARABOTTO, Alessandro
09:30	[32] Track reconstruction in the LUXE experiment using quantum algorithms	SPATARO, David

Plenary - PCTS conference room (4th floor) (13:30 - 15:00)

-Conveners: Michel De Cian

time	[id] title	presenter
13:30	[45] Track Reconstruction at the Electron-Ion Collider	LI, Shujie
14:00	[40] Application of machine learning in muon scattering tomography for better image reconstruction	Dr TRIPATHY, Sridhar
14:30	[31] Real-time alignment procedure at the LHCb experiment for Run3	REISS, Florian