

Connecting The Dots 2023

Tuesday 10 October 2023

Plenary - Auditorium (09:00 - 10:20)

-Conveners: Alexis Vallier

time	[id] title	presenter
09:00	[63] Welcome from L2IT Director	STARK, Jan
09:05	[61] Welcome & Introduction	VALLIER, Alexis
09:20	[28] High Pileup Particle Tracking with Object Condensation	DEZOORT, Gage LIERET, Kilian
09:50	[47] Track Finding-and-Fitting with Influencer Object Condensation	MURNANE, Daniel Thomas

Plenary - Auditorium (11:00 - 12:30)

-Conveners: Andreas Salzburger

time	[id] title	presenter
11:00	[50] CEPC tracking performance with ACTS	AI, Xiacong
11:30	[31] k4Clue: the CLUE Algorithm for Future Collider Experiments	BRONDOLIN, Erica
12:00	[43] An application of HEP track reconstruction methods to Gaia EDR3	GOKCEN, Mine

Plenary - Auditorium (14:00 - 15:35)

-Conveners: Vladimir Gligorov

time	[id] title	presenter
14:00	[4] Expected tracking performance of the ATLAS Inner Tracker Upgrade for Phase-II	GESSINGER, Paul
14:35	[20] Track reconstruction with mkFit and developments towards HL-LHC	KRUTELYOV, Slava
15:05	[19] End-to-end Particle-flow Reconstruction Algorithm for Highly Granular Calorimeters	Mr ZEHETNER, Philipp

Plenary - Auditorium (16:10 - 17:40)

-Conveners: David Lange

time	[id] title	presenter
16:10	[34] High-throughout GNN track reconstruction at LHCb	CORREIA, Anthony
16:40	[23] Application of single-layer particle tracking for radiation field decomposition and interaction point reconstruction at MoEDAL	GARVEY, Declan Mr GARVEY, Declan
17:10	[52] A Multipurpose Graph Neural Network for Reconstruction in LArTPC Detectors	CERATI, Giuseppe

Wednesday 11 October 2023

Plenary - Auditorium (09:00 - 10:30)

-Conveners: Paolo Calafiura

time	[id] title	presenter
09:00	[51] First experiences with the LHCb heterogeneous software trigger	MORRIS, Andy
09:30	[3] Downstream: a new algorithm at LHCb to reconstruct Long-Lived particles in the first level of the trigger.	DE OYANGUREN CAMPOS, Arantza
10:00	[12] The performance of the ATLAS Inner Detector tracking trigger, including new long-lived particle triggers, in high pileup collisions at 13.6 TeV at the Large Hadron Collider in Run-3	LONG, Jonathan

Plenary - Auditorium (14:00 - 15:30)

-Conveners: Salvador Marti I Garcia

time	[id] title	presenter
14:00	[44] Seed finding in the Acts Software Package: Algorithms and Optimizations	FALDA COELHO, Luis ALLAIRE, Corentin
14:30	[35] Study of a new algorithm for tracker alignment using Machine Learning	Mr BRUNNER, David
15:00	[36] Simultaneous multi-vertex reconstruction with a minimum-cost lifted multicut graph partitioning algorithm	KOSTYUKHIN, Vadim

Plenary - Auditorium (16:00 - 17:50)

-Conveners: Markus Elsing

time	[id] title	presenter
16:00	[18] Physics Performance of the ATLAS GNN4ITk Track Reconstruction Chain	TORRES, Heberth
16:30	[46] Neural-Network-Based Event Reconstruction for the RadMap Telescope	MEYER-HETLING, Luise
17:00	[40] FASER tracking system and performance	LI, Ke

Thursday 12 October 2023

Plenary - Auditorium (09:00 - 10:30)

-Conveners: Alexis Vallier

time	[id] title	presenter
09:00	[48] Belle II track finding and hit filtering using precise timing information	WESSEL, Christian
09:30	[24] Improving tracking algorithms with machine learning: a case for line-segment tracking at the High Luminosity LHC	GUIANG, Jonathan
10:00	[7] Novel Approaches for ML-Assisted Particle Track Reconstruction and Hit Clustering	ODYURT, Uraz

Plenary - Auditorium (14:40 - 15:40)

-Conveners: Giuseppe Cerati

time	[id] title	presenter
14:40	[54] Reconstructing charged particle track segments with a quantum-enhanced support vector machine	JASTRZEBSKI, Marcin JASTRZEBSKI, Marcin
15:10	[25] Application of Quantum Annealing with Graph Neural Network Preselection in Particle Tracking at LHC	Dr CHAN, Wai Yuen