

Connecting The Dots 2020

Monday, April 20, 2020

Recording sessions: Recording session 1 (1:00 PM - 4:30 PM)

-Conveners: Vladimir Gligorov; Michel De Cian

time	[id] title	presenter
1:00 P	[M9] Hashing and similarity learning for track reconstruction for the HL-LHC ATLAS detector	KIEHN, Moritz
1:20 P	[M8] The Hybrid Seeding at LHCb	HENRY, Louis
1:35 P	[M5] Fast parallel Primary Vertex reconstruction for the LHCb Upgrade	REISS, Florian
1:55 P	[M7] A 30 MHz software trigger and reconstruction for the LHCb upgrade	HENRY, Louis
2:25 P	[M6] Using an Optical Processing Unit for tracking and calorimetry at the LHC	Dr BASARA, Laurent
2:55 P	[M4] A Quantum Graph Network Approach to Particle Track Reconstruction	Mr TUYSUZ, Cenk
3:15 P	[M2] An updated hybrid deep learning algorithm for identifying and locating primary vertices	STAHL, Marian
3:30 P	[M0] Allen: A high level trigger on GPUs for LHCb	BOETTCHER, Thomas Julian

Recording sessions: Recording session 2 (7:00 PM - 10:00 PM)

-Conveners: Matthias Danninger

time	[id] title	presenter
7:00 P	[M1] The Track finder algorithm for the Trigger System of the Mu2e experiment at Fermilab	PEZZULLO, Gianantonio
7:30 P	[M4] Track Clustering with a Quantum Annealer for Primary Vertexing	Dr DAS, Souvik
8:00 P	[M5] A muon tracking algorithm for Level 1 trigger in the CMS barrel muon chambers during HL-LHC	LEON HOLGADO, Jaime
8:15 P	[M7] Track Reconstruction on Free Streaming Data at PANDA	REGINA, Jenny
8:45 P	[M2] Minimum Pt Track Reconstruction in ATLAS	MCCORMACK, William Patrick
9:05 P	[M7] Parallelizable Track Pattern Recognition in High-Luminosity LHC	CHANG, Philip

Tuesday, April 21, 2020

Recording sessions: Recording session 3 (1:00 PM - 4:40 PM)

-Conveners: David Rousseau

time	[id] title	presenter
1:00 P	[M0] Level-1 Track Finding at CMS for the HL-LHC	SKINNARI, Louise
1:30 P	[M5] Displaced Event Classification Using Graph Networks	ALBERTSSON, Kim
1:50 P	[M] Tracking performance with the HL-LHC ATLAS detector	SCHILLACI, Zachary Michael
2:05 P	[M0] Performance of Belle II tracking on collision data.	KURZ, Simon Thomas
2:35 P	[M9] Progress towards a 4D fast tracking pixel detector	PETRUZZO, Marco
3:05 P	[M] Fast tracking for the HL-LHC ATLAS detector	KLIMPEL, Fabian
3:35 P	[M6] Exploring (Quantum) Track Reconstruction Algorithms for non-HEP applications	Mrs NOVOTNY, Kristiane NOVOTNY, Kristiane

Recording sessions: Recording session 4 (7:00 PM - 10:00 PM)

-Conveners: Maurice Garcia-Sciveres

time	[id] title	presenter
7:00 P	[M0] Application of the Deep Sets architecture to track-based flavour tagging with the ATLAS detector	HARTMAN, Nicole Michelle
7:30 P	[M6] Graph Neural Networks for Track Finding	MURNANE, Daniel
8:00 P	[M] Kinematic Kalman Filter Track Fit	BROWN, David
8:30 P	[M7] Learned Representations from Lower-Order Interactions for Efficient Clustering	Mr CHOMA, Nicholas
8:50 P	[M3] Performance of the Z Trigger under Luminosity Conditions: First Experience	MEGGENDORFER, Felix
9:05 P	[M1] Requirements, Status and plans for track reconstruction of the sPHENIX experiment	OSBORN, Joseph
9:35 P	[M8] Rescuing VBF Higgs Invisible Events with Novel Vertex Selection	SAFDARI, Murtaza

Wednesday, April 22, 2020

Recording sessions: Recording session 5 (1:00 PM - 4:45 PM)

-Conveners: Markus Elsing

time	[id] title	presenter
1:00 P	[M2] Overview of online and offline reconstruction in ALICE for LHC Run 3	ROHR, David
1:30 P	[M6] 40 MHz Scouting with Deep Learning in CMS	GOLUBOVIC, Dejan
1:50 P	[M1] A novel reconstruction framework for an imaging calorimeter for HL-LHC	GOUSKOS, Loukas ROVERE, Marco MARTELLI, Arabella Dr CRISTELLA, Leonardo PANTALEO, Felice
2:10 P	[M] Global least squares alignment with Kalman Filter fitted tracks	BRUCKMAN DE RENSTROM, Pawel
2:40 P	[M6] A Machine Learning based 3D Track Trigger for Belle II	SKAMBRAKS, Sebastian
3:10 P	[M3] An optical network for accelerating real-time tracking with FPGAs	LAZZARI, Federico
3:30 P	[M] ACTS Vertexing and Deep Learning Vertex Finding	SCHLAG, Bastian
3:50 P	[M] Fast pattern recognition for ATLAS track triggers in HL-LHC	KALDERON, William

Recording sessions: Recording session 6 (7:00 PM - 10:20 PM)

-Conveners: David Lange

time	[id] title	presenter
7:00 P	[M5] Graph Neural Networks for Reconstruction in Liquid Argon Time Projection Chambers	HEWES, Jeremy Edmund
7:20 P	[M4] Data Reconstruction Using Deep Neural Networks for Particle Imaging Neutrino Detectors	DRIELSMA, François
7:50 P	[M0] Graph neural networks for FPGAs	IYAMA, Yutaro
8:20 P	[M8] Particle Clustering and Flow Reconstruction for Particle Imaging Neutrino Detectors Using Graph Neural Networks	Dr DRIELSMA, François
8:35 P	[M8] Applying Submanifold Sparse CNN in MicroBooNE	Dr ITAY, Ran
9:25 P	[M7] Parallelizing the unpacking and clustering of detector data for reconstruction of charged particle tracks on multi-core CPUs and many-core GPUs	WANG, Bei
9:40 P	[M4] Tracking performance with ACTS	AI, Xiacong
10:10 P	[M] Manifold reconstruction using linear approximations	Ms NAG, Panchali