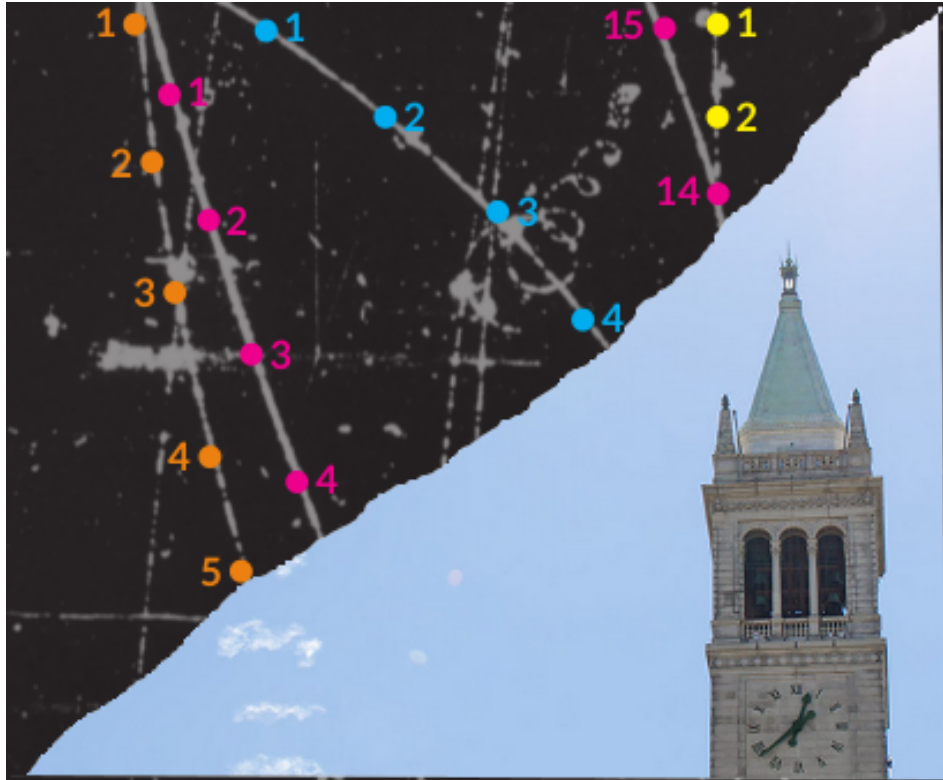


Connecting The Dots 2015



Report of Contributions

Contribution ID: **1**

Type: **not specified**

Public Lecture

Tuesday, 10 February 2015 17:30 (1 hour)

On sound restoration and relationship to particle physics pattern recognition

Presenter: HABER, Carl

Contribution ID: 2

Type: **not specified**

Artificial retina processor for track reconstruction

Wednesday, 11 February 2015 09:30 (30 minutes)

Presenter: CENCI, Riccadro (INFN Pisa)

Session Classification: Session 5

Contribution ID: 3

Type: **not specified**

Space Object Tracking and Characterization

Monday, 9 February 2015 16:00 (45 minutes)

Presenter: HENDRIX, Doug (ExoAnalytic Solutions, Inc.)

Session Classification: Session 2

Contribution ID: 4

Type: **not specified**

Big data algorithms for compressed sensing with missing data

Presenter: RECHT, Ben (UC Berkeley)

Contribution ID: 5

Type: **not specified**

Pattern recognition in LAr TPCs for neutrino experiments

Tuesday, 10 February 2015 14:00 (30 minutes)

Presenter: USHER, Tracy (SLAC)

Session Classification: Session 4

Contribution ID: 6

Type: **not specified**

LHCb tracking for the Phase-1 trigger scheme (HLT)

Monday, 9 February 2015 10:00 (30 minutes)

Presenter: HEAD, Timothy (EPF Lausanne)

Session Classification: Session 1

Contribution ID: 7

Type: **not specified**

Track reconstruction challenges for future linear colliders

Tuesday, 10 February 2015 10:00 (30 minutes)

Presenter: GRAF, Norman (SLAC)

Session Classification: Session 3

Contribution ID: 8

Type: **not specified**

Overview of associative memory tracking devices

Wednesday, 11 February 2015 11:00 (30 minutes)

Presenter: ANNOVI, Alberto (INFN Pisa)

Session Classification: Session 5

Contribution ID: 9

Type: **not specified**

Low-momentum tracking for Mu2e

Tuesday, 10 February 2015 14:30 (30 minutes)

Presenter: BROWN, David

Session Classification: Session 4

Contribution ID: **10**

Type: **not specified**

Jet images: Computer vision techniques for jet tagging

Monday, 9 February 2015 14:30 (30 minutes)

Presenter: KAGAN, Michael (SLAC)

Session Classification: Session 2

Contribution ID: **11**

Type: **not specified**

Bayesian model-based clustering

Monday, 9 February 2015 15:00 (30 minutes)

Presenter: FRÜHWIRTH-SCHNATTER, Sylvia (WU Vienna)

Session Classification: Session 2

Contribution ID: 12

Type: **not specified**

A HEP pattern recognition challenge on Kaggle ? Experience from the ATLAS Higgs Machine Learning challenge

Monday, 9 February 2015 12:00 (30 minutes)

Presenter: ROUSSEAU, David (IN2P3 LAL)

Session Classification: Session 1

Contribution ID: 14

Type: **not specified**

A specialized processor for track reconstruction at the LHC crossing rate

Tuesday, 10 February 2015 11:00 (30 minutes)

Presenter: STRACKA, simone (INFN Pisa)

Session Classification: Session 3

Contribution ID: 15

Type: **not specified**

A New Concept of Vertically Integrated Pattern Recognition Associative Memory

Wednesday, 11 February 2015 11:30 (30 minutes)

Presenter: LIU, Ted (Fermilab)

Session Classification: Session 5

Contribution ID: 16

Type: **not specified**

A fast and parallel three-dimensional track fit with multiple scattering for Mu3e

Tuesday, 10 February 2015 15:00 (30 minutes)

Presenter: KIEHN, Moritz (U. Heidelberg)

Session Classification: Session 4

Contribution ID: 17

Type: **not specified**

ALICE HLT GPU-based cellular automaton track finder

Monday, 9 February 2015 11:00 (30 minutes)

Presenter: ROHR, David (Frankfurt IAS)

Session Classification: Session 1

Contribution ID: **18**

Type: **not specified**

Deep Learning for HEP Data Analysis

Monday, 9 February 2015 14:00 (30 minutes)

Presenter: SADOWSKI, Peter (UC Irvine)

Session Classification: Session 2

Contribution ID: **19**

Type: **not specified**

ATLAS experiment recent and planned tracking improvements

Wednesday, 11 February 2015 10:00 (30 minutes)

Presenter: MORLEY, Anthony (KTH)

Session Classification: Session 5

Contribution ID: 20

Type: **not specified**

CMS experiment recent and planned improvements

Monday, 9 February 2015 09:30 (30 minutes)

Presenter: BRONDOLIN, Erica (Austrian Academy of Sciences)

Session Classification: Session 1

Contribution ID: **21**

Type: **not specified**

ATLAS Track reconstruction challenges for HL-LHC

Tuesday, 10 February 2015 09:00 (30 minutes)

Presenter: LIEBIG, Wolfgang (U. Bergen & CERN)

Session Classification: Session 3

Contribution ID: 22

Type: **not specified**

L1 track trigger for CMS at HL-LHC

Tuesday, 10 February 2015 09:30 (30 minutes)

Presenter: JINDARIANI, Sergo (Fermilab)

Session Classification: Session 3

Contribution ID: 23

Type: **not specified**

Welcome and Introduction

Monday, 9 February 2015 09:15 (15 minutes)

Presenter: HEINEMANN, Beate

Session Classification: Session 1

Contribution ID: 25

Type: **not specified**

Fuzzy clustering algorithms for jet reconstruction

Wednesday, 11 February 2015 09:00 (30 minutes)

Presenter: STANSBURY, Conrad (Stanford U.)

Session Classification: Session 5

Contribution ID: 26

Type: **not specified**

Update on Belle-II tracking status of preparation, including Pixel readout and data reduction

Monday, 9 February 2015 11:30 (30 minutes)

Presenter: HECK, Martin (KIT)

Session Classification: Session 1

Contribution ID: 27

Type: **not specified**

DiscucSION

Tuesday, 10 February 2015 12:00 (30 minutes)

Presenter: ELSING, Markus (CERN)

Session Classification: Session 3

Contribution ID: **28**

Type: **not specified**

Discussion

Contribution ID: **29**

Type: **not specified**

HOLD

Contribution ID: **30**

Type: **not specified**

Final remarks

Wednesday, 11 February 2015 12:30 (30 minutes)

Session Classification: Session 5

Contribution ID: 31

Type: **not specified**

Constrained fits with non-normal distributions

Tuesday, 10 February 2015 11:30 (30 minutes)

Presenter: FRÜHWIRTH, Rudolf (Austrian Academy of Sciences)

Session Classification: Session 3

Contribution ID: **32**

Type: **not specified**

Disucussion

Tuesday, 10 February 2015 15:30 (30 minutes)

Presenter: DOMINGUEZ, Aaron (U. of Nebraska)

Session Classification: Session 4

Contribution ID: 33

Type: **not specified**

Discussion

Wednesday, 11 February 2015 12:00 (30 minutes)

Presenter: RISTORI, Luciano (INFN Pisa)

Session Classification: Session 5

Contribution ID: **34**

Type: **not specified**

Reception and Dinner

Monday, 9 February 2015 18:00 (3 hours)

Contribution ID: 35

Type: **not specified**

Practical information

Monday, 9 February 2015 09:00 (15 minutes)

Presenter: GARCIA-SCIVERES, Maurice

Session Classification: Session 1

Contribution ID: 36

Type: **not specified**

Planning session on track finding challenge

Contribution ID: 37

Type: **not specified**

Planing session for track finding challenge

Tuesday, 10 February 2015 08:30 (30 minutes)

Contribution ID: **38**

Type: **not specified**

Followup meeting #1

Wednesday, 11 February 2015 14:00 (10 minutes)

Session Classification: Followup meetings

Contribution ID: 39

Type: **not specified**

Followup meeting #2

Wednesday, 11 February 2015 14:10 (10 minutes)

Session Classification: Followup meetings

Contribution ID: **40**

Type: **not specified**

CTD2016

Wednesday, 11 February 2015 14:20 (10 minutes)

Session Classification: Followup meetings