Informal DOE Briefing : USCMS/FNAL Computing Innovation towards HL-LHC

Report of Contributions

Contribution ID: **0**   Type: **not specified**

Introduction, Goals for the Meeting

Thursday, 13 June 2019 12:00 (10 minutes)

Presenters: Dr BAUERDICK, Lothar (Fermilab); Prof. SPIROPULU, Maria (Caltech)

Contribution ID: **1**   Type: **not specified**

Innovation and Engineering for HL-LHC Computing Infrastructure

Thursday, 13 June 2019 12:10 (25 minutes)

Computing HL-LHC challenges and the envisioned computation ecosystem to address them

Presenters: Dr BAUERDICK, Lothar (Fermilab); Dr GUTSCHE, Oliver (Fermi National Accelerator Laboratory)

Contribution ID: **2**   Type: **not specified**

Strategy towards HL-LHC Computing, Next Steps

Thursday, 13 June 2019 15:00 (20 minutes)

Presenters: Dr BAUERDICK, Lothar (Fermilab); Prof. SPIROPULU, Maria (Caltech); Dr GUTSCHE, Oliver (Fermi National Accelerator Laboratory)

Contribution ID: **3**   Type: **not specified**

Executive Session/Adjourn

Thursday, 13 June 2019 15:20 (30 minutes)

Contribution ID: **4**   Type: **not specified**

Graph Neural Networks for Next Generation Detector Reconstruction: Lindsey Gray

Contribution ID: **5**   Type: **not specified**

Advanced Data Analysis and Simulation Methods

Thursday, 13 June 2019 13:25 (20 minutes)

Presenters: PATA, Joosep (Caltech); PEDRO, Kevin (Fermilab); SMITH, Nicholas (Fermilab)

Session Classification: Innovation & Engineering (I)

Contribution ID: **6**   Type: **not specified**

Machine Learning on FPGAs: Nhan Tran

Contribution ID: **7**   Type: **not specified**

Accelerating Higgs–>bb Analysis with Coffea: Nick Smith

Contribution ID: **8** Type: **not specified**

"on-chip" computation (FPGA-based framework)

Thursday, 13 June 2019 12:35 (20 minutes)

Presenters: DUARTE, Javier (Fermilab); BACHTIS, Michail

Session Classification: Innovation & Engineering (I)

Contribution ID: **9**　　　　　　　　　　　　　　　　　　Type: **not specified**

Machine Learning Ecosystem

Thursday, 13 June 2019 14:30 (15 minutes)

Presenter:　Dr VLIMANT, Jean-Roch (California Institute of Technology)

Session Classification:　Innovation & Engineering (II)

Contribution ID: **10**   Type: **not specified**

Software Framework and HPC

Thursday, 13 June 2019 14:15 (15 minutes)

Presenter: KORTELAINEN, Matti

Session Classification: Innovation & Engineering (II)

Contribution ID: **11** Type: **not specified**

Data Organization, Management, and Access

Thursday, 13 June 2019 14:00 (15 minutes)

Presenter: BOCKELMAN, Brian

Session Classification: Innovation & Engineering (II)

Contribution ID: **12**   Type: **not specified**

Mapping Computing Innovation onto HL-LHC Needs

Thursday, 13 June 2019 14:45 (15 minutes)

Presenter: KLUTE, Markus (MIT)

Session Classification: Innovation & Engineering (II)

Contribution ID: **13**   Type: **not specified**

Accelerating Higgs−>μμ and optimizing computational Kernels: Joosep Pata

Contribution ID: **14** · · · · · · · · · · · · · Type: **not specified**

Advanced Methods for Data Processing and Reconstruction

Thursday, 13 June 2019 12:55 (30 minutes)

Presenters: REINSVOLD HALL, Allison; GRAY, Lindsey (Fermilab); TRAN, Nhan (FNAL)

Session Classification: Innovation & Engineering (I)