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)