Argonne & Fermilab host: Beyond Leading Order Calculations on HPCs

Report of Contributions

https://indico.cern.ch/e/557731

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

Motivating the need for NNLO calculations with LHC measurements

Thursday, 22 September 2016 08:45 (45 minutes)

Presenter: GIELE, Walter (Fermilab)

Session Classification: First Morning Session

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

NNLO Calculations on HPCs

Thursday, 22 September 2016 09:30 (30 minutes)

Presenter: BOUGHEZAL, Radja (Argonne National Laboratory)

Session Classification: First Morning Session

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

Sherpa NLO Generator: Software Operation and Organization

Thursday, 22 September 2016 10:30 (30 minutes)

Presenters: HOCHE, Stefan (SLAC National Accelerator Laboratory (US)); HOECHE, Stefan (SLAC)

Session Classification: Second Morning Session

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

Effectively targeting the Argonne Leadership Computing Facility

Thursday, 22 September 2016 11:00 (30 minutes)

Presenter: Dr KUMARAN, Kalyan (Argonne National Laboratory)

Session Classification: Second Morning Session

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

Pythia LO Generator: Software Operation and Organization

Thursday, 22 September 2016 11:30 (30 minutes)

Presenters: MRENNA, Stephen (FERMILAB); MRENNA, Steve (Fermi National Accelerator Lab. (US))

Session Classification: Second Morning Session

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

Effectively targeting the Oak Ridge Leadership Computing Facility

Thursday, 22 September 2016 13:00 (30 minutes)

Presenter: Dr MESSER, Bronson (Oak Ridge National Laboratory)

Session Classification: First Afternoon Session

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

MadGraph_aMC@NLO: Software Operation and Organization

Thursday, 22 September 2016 13:30 (30 minutes)

Presenter: Dr MATTELAER, Olivier Pierre C (IPPP Durham)

Session Classification: First Afternoon Session

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

Effectively targeting the NERSC Facility

Thursday, 22 September 2016 14:00 (30 minutes)

Presenter: Dr GERBER, Richard (NERSC/BerkelyLab)

Session Classification: First Afternoon Session

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

Workshop Welcome

Thursday, 22 September 2016 08:30 (15 minutes)

Presenter: Dr LOCKYER, Nigel (Fermilab)

Session Classification: First Morning Session

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

Common Theory and Monte Carlo Tools for Scalable Code

Friday, 23 September 2016 08:30 (1h 30m)

Discuss possible common tools that both theorists and generator authors can use in their software. These tools should be scalable and portable for use on desktops, servers, clusters, or supercomputers.

Session Classification: First Morning Session

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

How do we develop system agnostic codes?

Thursday, 22 September 2016 15:00 (1 hour)

Obviously writing code that can run on a desktop or a supercomputer is hard or everyone would be doing it. What tips and tricks can we use to help not code ourselves into a corner in the future?

Session Classification: Second Afternoon Session

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

Experience with current Generators

Friday, 23 September 2016 10:30 (1 hour)

Presenters: BENDAVID, Josh (California Institute of Technology (US)); CHILDERS, Taylor (Argonne National Laboratory (US))

Session Classification: Second Morning Session