



Contribution ID: 287

Type: **Parallel Session Talk**

Recent developments with APPLfast project for fully differential NNLO cross sections at the LHC and the distribution of fast interpolation grids

Tuesday 9 April 2019 17:23 (17 minutes)

Fast interpolation grid technology provides a fast and flexible way to reproduce the results of perturbative QCD cross section calculations with any input PDF, choice of scales, or strong coupling. Recent developments in the APPLfast interface between the NNLOJET QCD calculation with both APPLgid and fastNLO are reported including the release of development versions of grids for QCD cross sections at the LHC including jet production, and Z production at high ET. The ploughshare utility, used as the standard source for the distribution of the NNLO APPLfast grids is also discussed.

Authors: SUTTON, Mark (University of Sussex (GB)); BRITZGER, Daniel (Max-Planck-Institut für Physik München); RABBERTZ, Klaus (KIT - Karlsruhe Institute of Technology (DE)); GWENLAN, Claire (University of Oxford (GB)); HUSS, Alexander Yohei (CERN)

Presenter: SUTTON, Mark (University of Sussex (GB))

Session Classification: WG1: Structure Functions and Parton Densities

Track Classification: WG1: Structure Functions and Parton Densities