Data Reprocessing

ATLAS Sites Jamboree
March 6th, 2019

J. Taenzer (Tel Aviv)
S. Prell (Iowa State)

Overview

First a brief warning that the future of data reprocessing can be hard to predict! Small requests from detector and performance subgroups based on their needs are common. Occasionally an analysis group will also request a larger reprocessing.

In this talk we will discuss the upcoming reprocessings that are predictable:

- 2015 DataScouting stream

- 2016 Heavy Ion data
  → Multiple streams

- 2018 physics_Main reprocessing
  → Still being discussed

Upcoming reprocessings (1)

2015 DataScouting stream reprocessing

- Last reprocessed in Rel 20.7

- 2017, 2018 already reprocessed in Rel 21, 2016 currently being reprocessed in Rel 21

- Since this is HLT data, the differences between Rel 20.7 and Rel 21 should be irrelevant, but for consistency DPC would like to have all of Run2 reprocessed in the same way!

2016 proton-Lead reprocessing

- Last reprocessed in Rel 20.7

- Includes both 5TeV and 8TeV p-Pb data

- Will reprocess at least the physics_Main and physics_UPC streams
  → Currently testing the Reco_tf configurations for both streams

Upcoming reprocessings (2)

Fast reprocessing of 2018 data

- Still being discussed, as there may not sufficient motivation for this reprocessing
  - → Depends on improvements from aligment/beamspot among other things
  - → Should take place during Fall 2019

- If it does happen, it will likely follow a similar pattern to the fast 2017 reprocessing:
  https://twiki.cern.ch/twiki/bin/view/Atlas/2017FastReprocessing

- Streams that were reprocessed in 2017:
  physics_Main
  physics_BphysLS
  physics_ZeroBias
  debugrec_hlt
  calibration_BphysPEB