Inclusive b->J/psi X: CMSSW & Data samples for coming analysis

Xiangwei Meng

Institute of High Energy Physics, CAS, Beijing

Sep. 26 , 2008

CMSSW 2_1_X

- 2_1_8 the reference release for MC production
  - adapted JetMET sequence for correct handling of HO
- 2_1_9 the release meant for data taking
  - several fixes/workaround for first collisions
  - all fixes from tracking (cosmic tracking with mag field, beam halo, pixel less seeding for collisions)
  - not include yet some changes in collision reco sequence for real already used in cosmic sequence (ECAL and DT local reco)
- PLAN for 2_1_X
  - Main focus of 2.1.X is still on data taking (even if do not have LHC, keep bug fixing for cosmics)

Muon Reco Software: Configurations

Two different set of configurations

- RecoMuonCosmics_cff3
  - Sequences for cosmic reco, also with “exo tic configurations”
  - Beam halo

    queued for 2_1_10 the possibility to build GLB beam h alo muon. This needed a dedicated tracker track collec tion
- RecoMuon_cff
  - Standard sequence for pp collision plus co smic/beam halo sequence

Inclusive b data samples

- **/BtoJpsiMuMu/Summer08_IDEAL_V9_v1/GEN-SIM-RECO**
  18 Sep 2008, 2,033,294 evts, 266 files, 4 blocks, 442.5GB, 2 sites
  T2_DE_DESY : dcache-se-cms.desy.de 258,981 56.4GB
  T2_DE_RWTH : grid-srm.physik.rwth-aachen.de 1,774,313 386.1GB

- **/JPsi/Summer08_IDEAL_V2_JPsi_v1/RECO**
  14 Jul 2008, 1,413,803 evts, 686 files, 7 blocks, 1.4TB, 1 site
  T1_DE_FZK : gridka-dCache.fzk.de 1,413,803 1.4TB

QCD

- **/MuonPT5/CSA08_CSA08_S156_v1/GEN-SIM-RECO**
  26 May 2008, 10,398,576 events, 5006 files, 147 blocks, 6.8TB, 3 sites
  T1_FR_CCIN2P3 : ccsrm.in2p3.fr 10,398,576 6.8TB
  srm.cern.ch 2,188,430 1.4TB
  T2_ES_CIEMAT : srm.ciemat.es 10,398,576 6.8TB

- **/InclusivePPmuX/Summer08_IDEAL_V9_v1/GEN-SIM-RAW**
  24 Sep 2008, 96,720 evts, 93 files, 2 blocks, 94.4GB, 1 site
  T2_PT_LIP_Lisbon: dcache01.lip.pt 96,720 94.4GB

- **/ppMuX/Summer08_STARTUP_V5_v1/GEN-SIM-RAW**
  16 Aug 2008, 2,256,949 events, 1239 files, 14 block(s), 1.8TB, 4 sites

QCD samples

- **/QCDpt15/Summer08_IDEAL_V9_v1/GEN-SIM-RAW**

  04 Sep 2008, contains 7,833,000 evts, 4087 files, 50 blocks, 8.6TB, 8 sites

- **/QCDpt15/Summer08_IDEAL_V9_skim_hlt_v1/USER**

  07 Sep 2008, 7,757,700 evts, 120 files, 11 blocks, 217.8GB, 1 site

  T1_US_FNAL : cmssrm.fnal.gov 7,757,700 217.8GB

- **/QCDpt30/Summer08_IDEAL_V9_v1/GEN-SIM-RAW**

  05 Sep 2008, 3,271,500 evts, 2181 files, 34 block(s), 4.2TB, 3 sites

- **/QCDpt30/Summer08_IDEAL_V9_skim_hlt_v1/USER**

  08 Sep 2008, 3,262,500 evts, 70 files, 9 block(s), 96.0GB, 5 sites

Offline ConditionsData/FrontierConditions

Conditions data for calibration and alignment are defined in ORCOF(Off-line Reconstruction Conditions DB Off-line). From the 200 release onwards, the set of database tags which together define the offline conditions data are collected together in a Global Tag, which is itself stored in the database.

- Triggers Path for Startup Conditions
  - **AlCaReco streams for collision data**
    - 3 TkAlJpsiMuMu Tracker alignment
      HLT_DoubleMu3_JPsi, HLT_DoubleMu4_BJPsi
- Start-up scenario (aka "SurveyLASCosmics" scenario) laser alignment system
- **Global Tag 21X**
  - **COSMMC_21X** for COSMICS MC. Expected calibration and alignment conditions at startup
  - **IDEAL_V9** Ideal/trivial conditions - perfectly aligned and calibrated detector
  - **STARTUP_V7** Expected calibration and alignment conditions at startup
- **Global Tag 20X**
  - **CSA08_S156** Conditions from S156 (10pb-1) calibration and alignment in CSA08
  - **CSA08_S43** Conditions from S43 (1pb-1) calibration and alignment in CSA08
  - **IDEAL_V2**
  - **STARTUP_V2**
- **FakeConditions**