Highly Ionizing Particles - MC15c full chain recipe

This TWiki page is designed to produce HIP MC15c private samples. The attached scripts are sending job to the GRID directly after a few modification. If you want to run locally, just run the transformation without using pathena after setting up the proper athena release as done in the first parts of scripts.

Event Generation

The first step is to generate EVNT files. There are two different kind of events. The single particles ones generated with ParticleGun and the Drell-Yan ones generated with MadGraph +Pythia.

For the single particles samples we are using tag e6024⬈ :

Please download the script and modify it to include your personal testarea, the wanted JO either stored on SVN in the tarball mentionned or a local file, the number of events and files.

For the Drell-Yan samples we are using tag e6109⬈ : (this tag is needed for 80e HECOs which were included in MCP model later)

Download this time the Drell-Yan script and modify it as before.

Simulation tag s2726⬈

From the EVNT file produced previously we will run geant 4. Run the simulation thanks to the script after modifying the input, output, number of events, DSID.

Digitization an reconstruction tag r9862⬈ include Pixel and SCT ignore patterns

One last time use the DigiReco script to generate the ESD.

Ntuples

Follow the instructions on the HIP Twiki to produce NTuples in release 20.7

-- AnthonyEricLionti - 2017-08-28

- DigiReco.sh: HIP MC JO

- DY.sh: HIP MC JO

- PG.sh: HIP MC JO

- Simu.sh: HIP MC JO

This topic: Main > HIPMC15c
Topic revision: r2 - 2017-08-29 - AnthonyEricLionti