

Discussions every Monday and Wednesday at 17h CERN time

February 8

- First draft lanl group meeting: lanl_group_meeting_100208.pdf: lanl_group_meeting_100208.pdf

January 28

- presentation with Z pgun solved new efficiencies [↗](#)

January 26 2010

- checking Z generation commits [↗](#)
- November presentation [↗](#)

January 25 2010

- manpower survey ?
- Gerd's slides on pixel ? meeting Tracker Pixels Meetings [↗](#)
- Hydjet root file (2000events) at CERN root -1
rfio:/castor/cern.ch/user/s/silvest/rootfiles/HI/hydjet_Summer09_MC_31X_V2_GaussianVtx_311.
♦ I also have a same and an opposite sign di-muon tree

```
// Loop over all sim products
for(TrackingParticleCollection::size_type i=0;i < simCollection.product()->size(); ++i)
{
  // Retrieve tracking particle reference
  const TrackingParticleRef simTrack(simCollection, i);
  // loop over all HepMC particles which make up this track. In principle there can be more than
  TrackingParticle::genp_iterator sim_part_it;
  TrackingParticle::genp_iterator sim_part_begin = simTrack->genParticle_begin();
  TrackingParticle::genp_iterator sim_part_end = simTrack->genParticle_end();
  for (sim_part_it = sim_part_begin; sim_part_it != sim_part_end; ++sim_part_it)
  {
    const HepMC::GenParticle *part = sim_part_it->get();
    // check if particle will reach the muon stations
    if( part==NULL || abs(part->momentum().eta())>2.5) continue;
  }
}
```

```
hydjetTree = new TTree ("hydjet","Tree of Hydjet Events"); // tree with particle information
hydjetTree->Branch("nevt",&nevt,"nevt/I"); hydjetTree->Branch("id1",&id1,"id1/I");
hydjetTree->Branch("eta1",&eta1,"eta1/D"); hydjetTree->Branch("pt1",&pt1,"pt1/D");
hydjetTree->Branch("px1",&px1,"px1/D"); hydjetTree->Branch("py1",&py1,"py1/D");
hydjetTree->Branch("pz1",&pz1,"pz1/D"); hydjetTree->Branch("p1",&p1,"p1/D");
hydjetTree->Branch("status1",&status1,"status1/I"); hydjetTree->Branch("y1",&y1,"y1/D");
hydjetTree->Branch("e1",&e1,"e/D"); hydjetTree->Branch("mass1",&mass1,"mass1/D");
hydjetTree->Branch("part_out",&part_out,"part_out/I");
```

```
if(fill_mother){ hydjetTree->Branch("mother1_id",&mother1_id,"mother1_id/I");
hydjetTree->Branch("mother_eta",&mother_eta_,"mother_eta_/D");
hydjetTree->Branch("mother_pt",&mother_pt_,"mother_pt_/D");
```

```
hydjetTree->Branch("mother_p",&mother_p_,"mother_p_/D");
hydjetTree->Branch("mother_mass",&mother_mass_,"mother_mass_/D");
hydjetTree->Branch("mother_rapidity",&mother_rapidity_,"mother_rapidity_/D");
hydjetTree->Branch("mother_energy",&mother_energy_,"mother_energy_/D");
hydjetTree->Branch("mother1_status",&mother1_status,"mother1_status/I");

hydjetTree->Branch("granmother1_id",&granmother1_id,"granmother1_id/I");
hydjetTree->Branch("granmother_eta",&granmother_eta_,"granmother_eta_/D");
hydjetTree->Branch("granmother_pt",&granmother_pt_,"granmother_pt_/D");
hydjetTree->Branch("granmother_p",&granmother_p_,"granmother_p_/D");
hydjetTree->Branch("granmother_mass",&granmother_mass_,"granmother_mass_/D");
hydjetTree->Branch("granmother_rapidity",&granmother_rapidity_,"granmother_rapidity_/D");
hydjetTree->Branch("granmother_energy",&granmother_energy_,"granmother_energy_/D");
hydjetTree->Branch("granmother1_status",&granmother1_status,"granmother1_status/I"); }
```

- pgun with some code committed by Generator crew is under validation... I'll make the same slides with the fix to see how it behaves. A first check with 500 Z suggest that the low pt region has no more excess but there are still some dimuons (Z) with a pt larger then the initial cut at 20GeV.
- di-lepton report went well
 - ◆ need to continue work on background checks => is hydjet a relevant background for muon studies ?
 - ◆ preparing a meeting on muon reconstruction in HI with experts and us for mid-february
- service work ?

January 20 2010

- slide for highlights : BudgetReview2010-LHC-CMS-Highlights.pptx
BudgetReview2010-LHC-CMS-Highlights.pdf [↗](#)
- application for CNRS
- travel request
- service work
- slide from Andi last week presentation ?
- studies ongoing :
 - ◆ hydjet studies
 - ◆ high pt Z0 embedded in hydjets efficiency
- upcoming events
 - ◆ dilepton meeting
 - ◆ dilepton review
 - ◆ presentation at lanl
 - ◆ Hot quark participation ? abstract ?

January 4 2010

- News from Dave about the service work ?
- Application to the CNRS
- Travel : leaving LANL on thursday 11th Febuary and coming back on Monday 3rd of May ? Will you come for CMS week in march ?

December 16 2009

- should I keep gathering slides about plots from CMS, lhc news ?
- service work : Gerd will write to Dave to know how to get into the trigger team and take trigger shifts

December 14 2009

- New from CERN week 7-11th of December: CMS week

December 7 2009

- CERN news: slides summary of cern activity
- answer Bolek : doing trigger shifts might make sense => see with Dave; UIC should update that I take service work with them; then the service manager will be notified; Bolek says DQM shifts are also service work and should be added automatically to my account of service work
- no answer from Roberto about his slide 3 : data driven or MC based ? But listening to a talk today I understand that the data driven estimations may not be feasible when the statistics is too low. This may be the reason...
- PAT matching : same accessors to matching as RECO, details here
- I may apply to a CNRS position : what recommendation letter that I had for LANL were good ones ?

December 1 2009

- discuss GEN slides before posting
- plans for 2 months
 - ◆ analysis wise : write sketch of AN with figure captions and send it for discussion to list
 - ◇ go through todo list
 - ◆ neutron simulations ? or later later
 - ◆ shifts ? RD ? write to Bolek to know about service work, and how to sign papers
- I could send a summary pointing to interesting plots /news every week for monday meeting to be send every monday
- talk every wednesday ? what time mondays and wednesday @17h GVA time @9AM LANL time
- twiki ? yes

summary of todos

- write to Roberto to know about slide 3 of his slide : data driven or MC based ?
- study Dipanwita note AN2007/00, Z->mumu AN2006/082, AN2006/124, arxiv0706.2940v1
- draft Z0 first year AN : here
- look at what matching information come from PAT to see if I move completely to PAT or just partly

Warning: Can't find topic Main.CSSSideBar

Warning: Can't find topic Main.CSCustomCSS

-- CatherineSilvestreTello - 2009-12-07

-- CatherineSilvestre - 02-Apr-2012

This topic: Main > HeLP

Topic revision: r1 - 2012-04-02 - CatherineSilvestre



Copyright &© 2008-2020 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback