Subject: Re: very high reconstructed momenta of muons
Posted by Malgorzata Gumberidze on Mon, 16 Apr 2012 22:42:33 GMT
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Dear All,

I have made few more test after discussions with Stefano in order to check where the high momenta tail is coming from: tracking code or Kalman (as it was suggested by Gianluigi).

What i have done is to switch on native tracking by using in the pid level:

```
PndPidCorrelator* corr = new PndPidCorrelator();
corr->SetInputBranch("SttMvdGemTrack");
corr->SetInputIDBranch("SttMvdGemTrackID");
corr->SetDebugMode(kFALSE);
fRun->AddTask(corr);
```

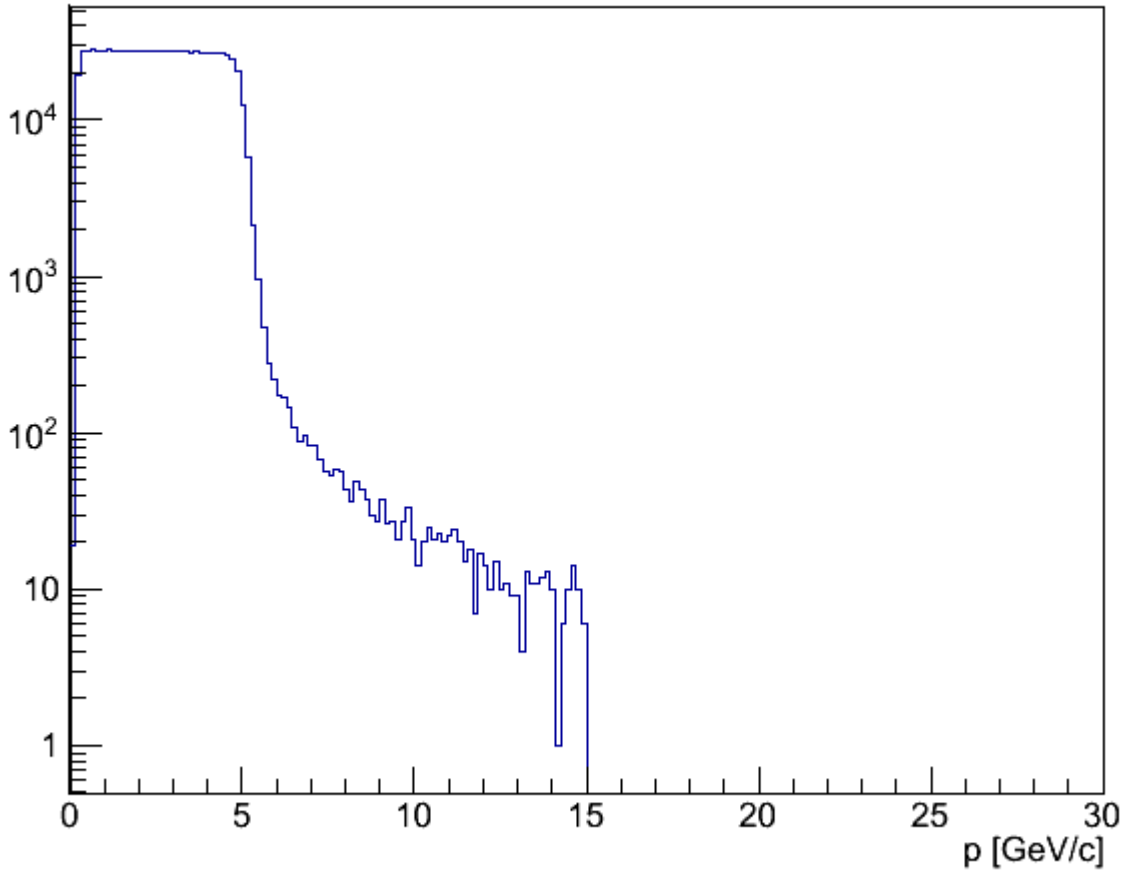
One can see that the tail at high momenta (up to 15GeV/c) is present also with native tracking. So it means it is not coming from genfit.

It would be nice that experts can cross check this problem in the code as well.

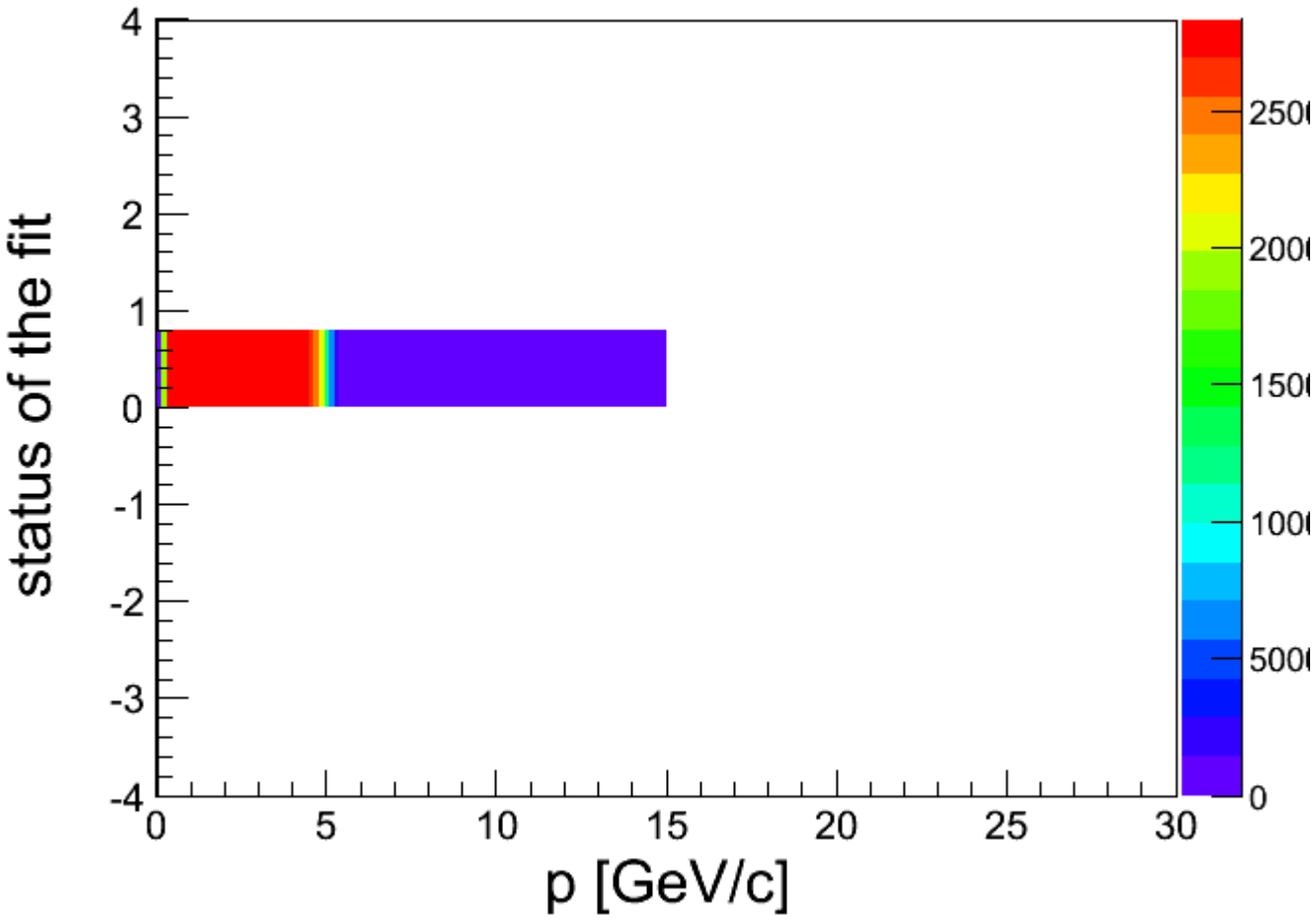
gosia

File Attachments

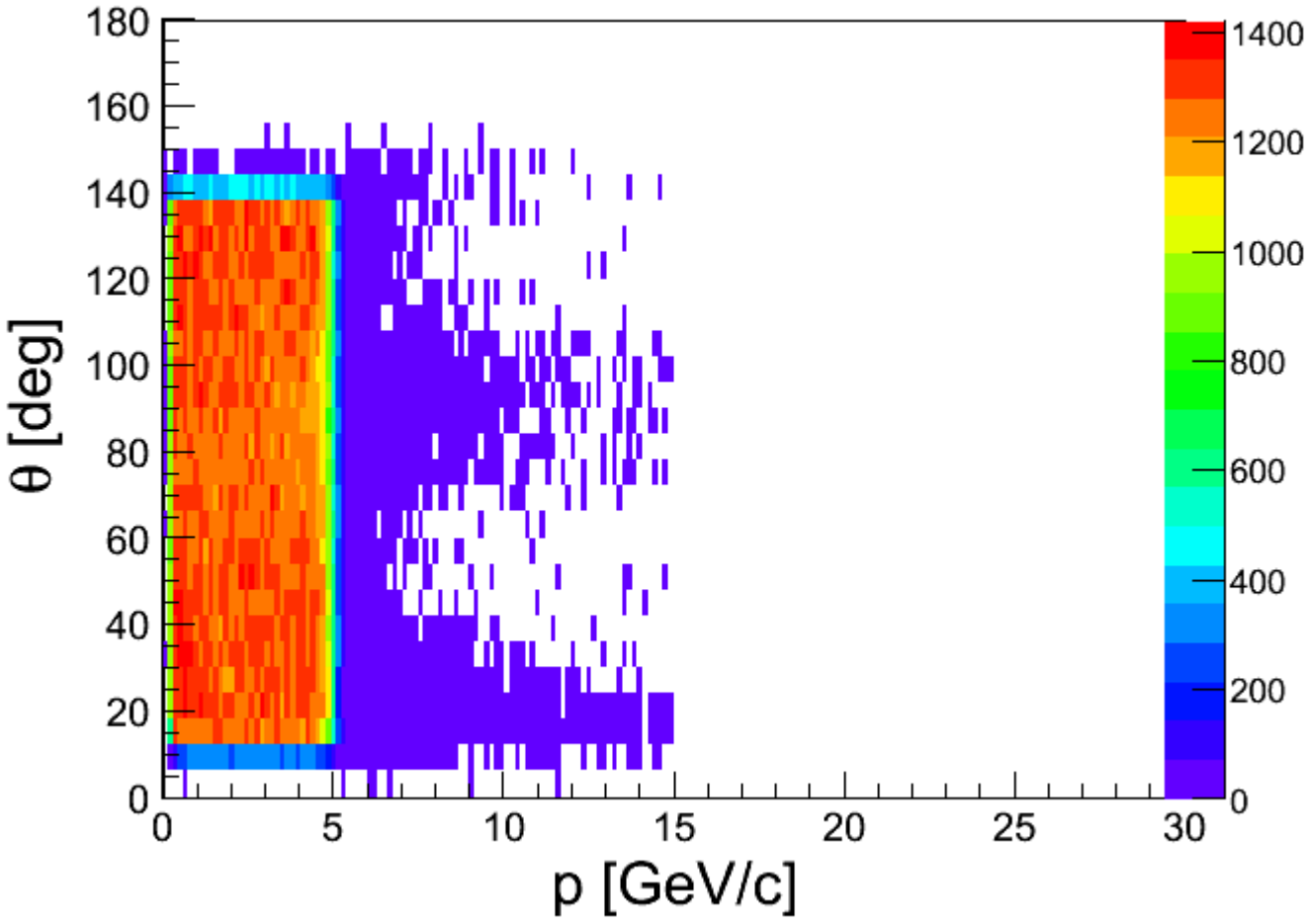
1) muon_mom_noGen.gif, downloaded 1028 times



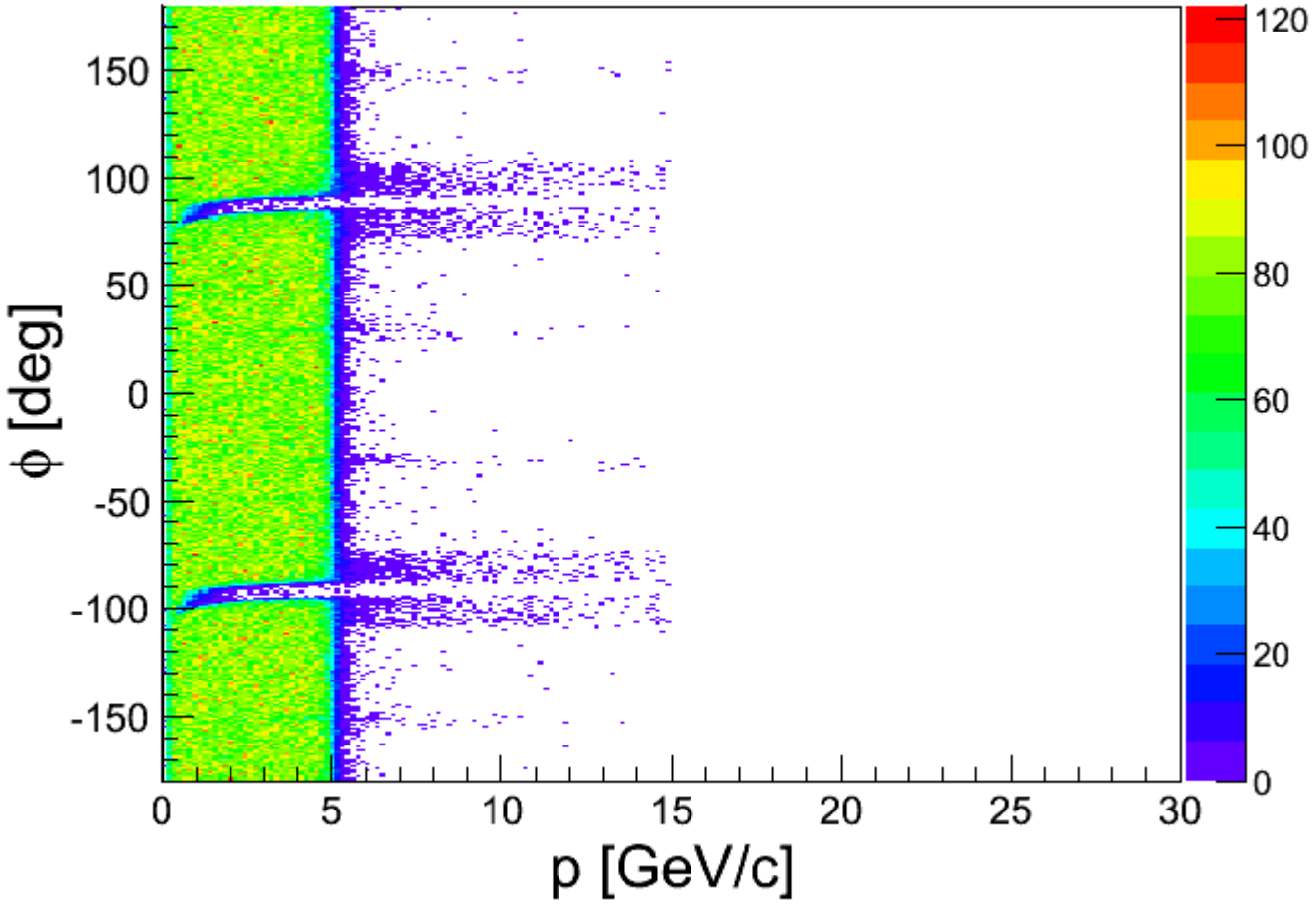
2) muon_fitStat_p_noGen.gif, downloaded 1027 times



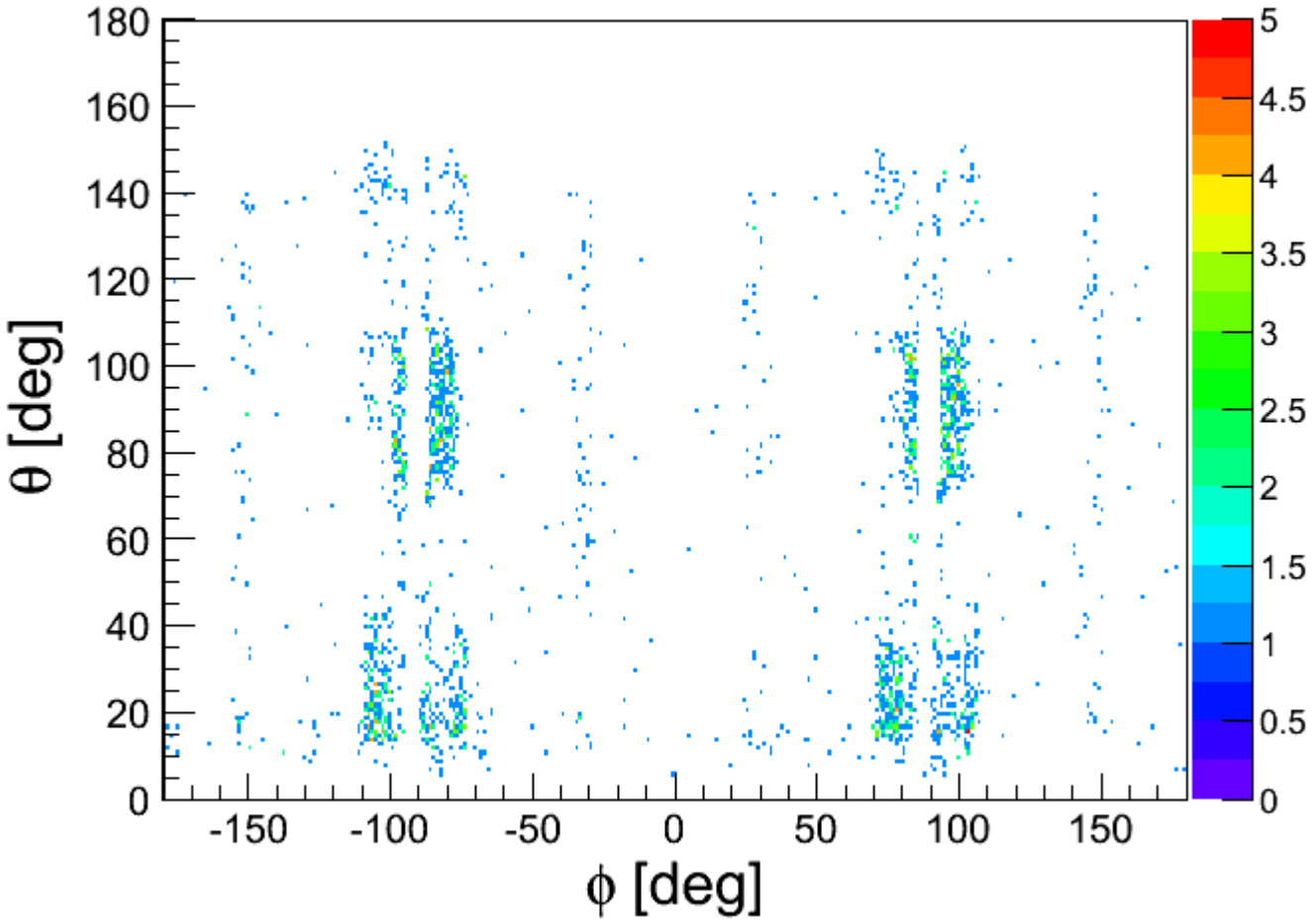
3) muon_theta_p_noGen.gif, downloaded 997 times



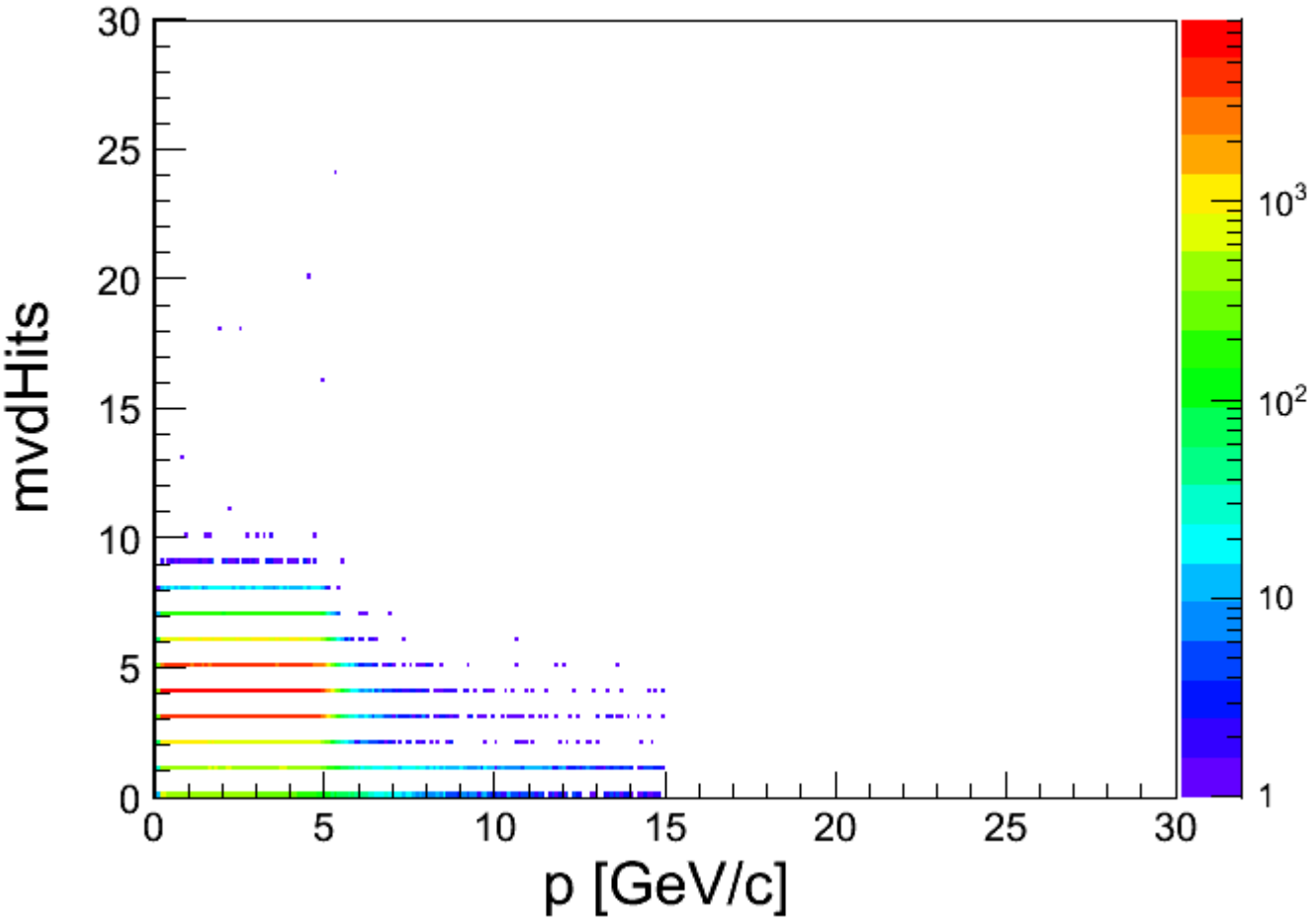
4) muon_phi_p_noGen.gif, downloaded 921 times



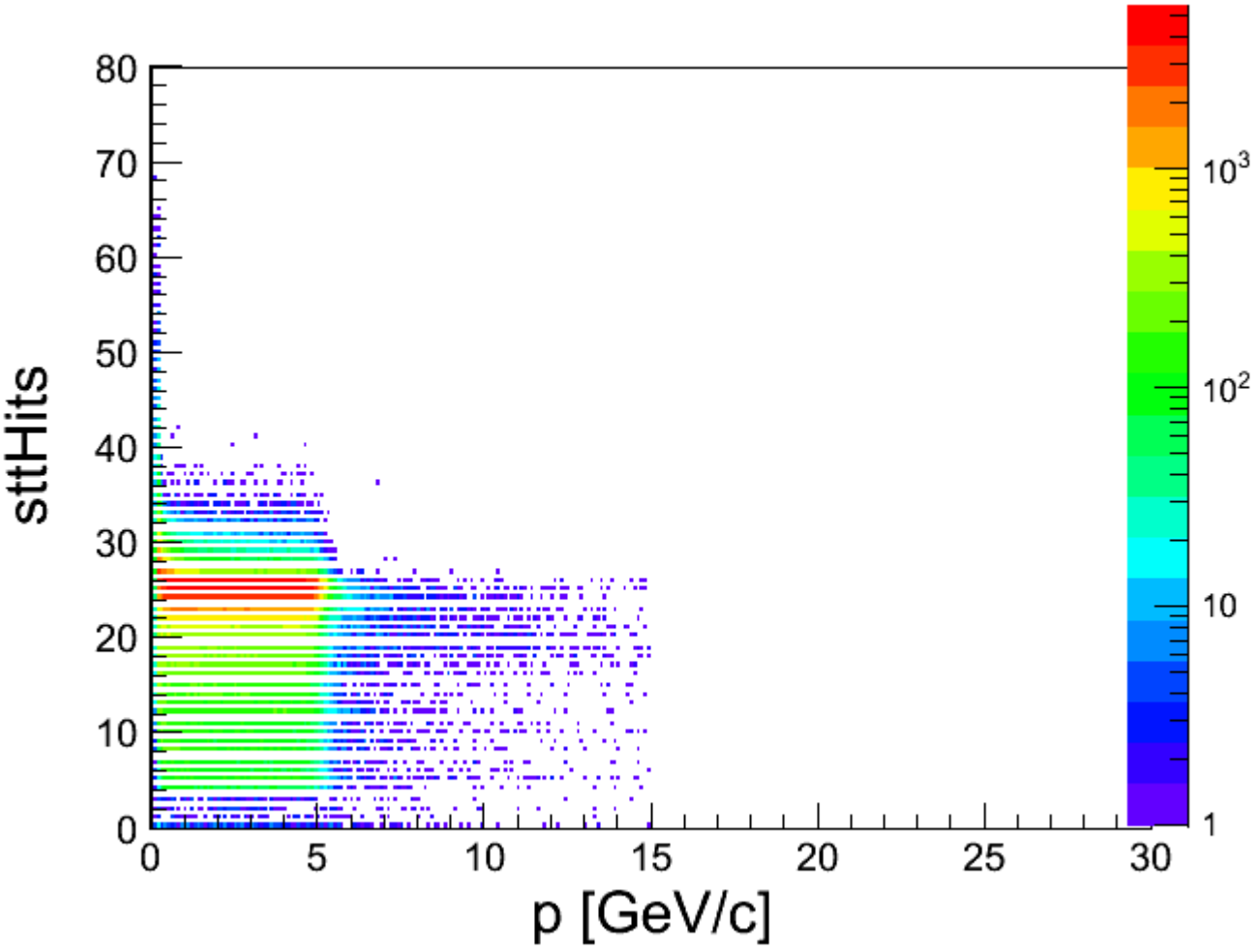
5) phi_theta_muon_noGen.gif, downloaded 1066 times



6) mvdHits_p_noGen.gif, downloaded 1023 times



7) sttHit_p_muon_noGen.gif, downloaded 1015 times


sttHits
p [GeV/c]
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30
1
10
10^2
10^3