Subject: EvtGen Lumi Theta-Distribution
Posted by Mathias Michel on Tue, 16 Feb 2010 10:50:27 GMT
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Hi all,

when generating with EvtGen for the luminosity monitor, i'm especially interested in forward angles below 10mrad theta. The generated particles in this region tend to specific angles rather then make a smooth distribution i would expect.

As an example i plotted theta and the z-component of the momentum for pbarpsystem -> pi+ pi- at 15GeV beam. Theta is in 0.1mrad bins and Pz in 0.2MeV bins.

The precision of the EvtGen-output is much higher then the binning, so is there some way to 'tune' EvtGen for the forward direction or am i maybe doing something wrong?

Thanks
Mathias

File Attachments

1) pi+pi-_15GeV.pdf, downloaded 603 times