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Subject: Re: EvtGen Lumi Theta-Distribution

Posted by [Stefano Spataro](#) on Thu, 25 Feb 2010 17:56:13 GMT

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Hi,

I have done some tests.

The problems are coming from EvtGen. I have run 100k events of J/Psi, and I have seen that in the output files there are 14 events with a track with exactly  $P_z = 15.46610609!!!!$  (but different  $p_x/p_y$ ).

This means that it does not depend on pandaroot but only in evtgen. It sounds weird also the fact that only in  $P_z$  this problem appears, while  $P_x$  and  $P_y$  have smooth distributions.

I could think that the problem is coming from the random generator, or... no idea!!

I would like to ask to people doing analysis if they have found this kind of problem in other channels (maybe a problem of the PHSP model?). You have only to take your primary tracks, plot  $P_z$  in a very narrow window and to check the distribution.

And, if somebody is using a random generator different from the EvtGen one, this check could be also helpful.

Waiting for some feedback...

Ste

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