Subject: New DPMgen results disagree with earlier simulations
Posted by Felix Boehmer on Tue, 02 Feb 2010 16:55:21 GMT
View Forum Message <> Reply to Message

Dear colleagues,

I just tried to re-do some results from last year for the TPC space charge simulations. I need simulations for panda background, including elastic and inelastic processes. On first glance I noticed that the new simulation results look very different to what I obtained last summer.

Attached you can find 2 plots of the MCTrack phase space of 50.000 events as given by the DPM generator. Both have been simulated with elastic and inelastic scattering turned on in the DPM settings (option "1") and with a very recent checkout of the pandaroot framework (svn rev. 7557). The "old" results correspond to rev. 4226 of the DPM folder (with everything else unchanged), that is a version before the changes in September '09.

As you can see, the very prominent band of elastic scattering almost disappeared. The spectrum seems no longer to be dominated by elastic processes. Can somebody from the DPM experts please comment on this?

Kind Regards,

Felix