Subject: EvtGen Output Fixed Point Precision
Posted by Marius Mertens on Thu, 16 Jul 2009 14:57:35 GMT
View Forum Message <> Reply to Message

Hi all,

to my understanding the canonical way to use EvtGen generated events within pandaroot means that one firstly generates the corresponding .evt file which is then imported into pandaroot.

My problem is that the output file format uses 4 digit fixed point precision for the non-integral values. Since these numbers are given in GeV, the potential rounding errors can cause a mass error in the order of more than an MeV.

Since the mass is clamped to the PDG mass for each particle once it crossed the interface to pandaroot, I am not sure about the actual impact of this behaviour.
However, is it be possible to increase precision in the output file or (as Ralf suggested in an earlier post) add another interface to pandaroot which then provides higher precision?

Best regards,

Marius