Subject: B-Field in Simulation
Posted by Tobias Stockmanns on Thu, 09 Aug 2007 13:10:51 GMT

Dear Developers,

I try to use a B-field within the PandaRoot simulation. I tried to follow the description on the WIKI page created by George. But it seems that the code on the Wiki page is not the same as in CVS. In addition there are more ways to create a B-field in PandaRoot as only by a map. Can somebody who is familiar with the topic either update the Wiki page or CVS?

This would be very kind.

Tobias

Subject: Re: B-Field in Simulation
Posted by StefanoSpataro on Thu, 09 Aug 2007 13:16:52 GMT

Hi,
indeed in the wiki page it is written "Old instructions, they need to be updated"

In each case, if you go in macro/run there is a PandaField.C macro that maybe can help you.

Subject: Re: B-Field in Simulation
Posted by Jens Sören Lange   on Thu, 09 Aug 2007 14:09:21 GMT

Hi Tobias, the reason for the change was:
a.) George's field maps were quite large.
just to give numbers: a compressed tar file (e.g. rev 246)
was 118 MB compared to nowadays 16.2 MB.
b.) these "official" field maps are maintained together with the GSI integration group (current version of March 2007)
c.) there is a correct description (i.e. adding of B fields) of the field in the transition region between the solenoid and the dipole.
(and it was O.K. for George that we did the change).
best regards, Soeren