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Subject: Re: Fieldmaps for the half current solenoid  
Posted by [Stefan Pflueger](#) on Sat, 15 Mar 2014 15:31:18 GMT  
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Hi Donghee,

Quote:

I agree on that your suggestion is rather convenient way in user point of view.  
However one more thing is still not clear to me to decide easy and best way.

Is the reduced B-field(or Half B-field) now officially adapted by all tracking group and analysis group? If yes, "Full" have to use automatically reduced field at below 3 GeV as you suggested, but I didn't hear any conclusion about it.

Quote:

For less than 3GeV it has to be half and above the full.

To my knowledge, the solenoid has to be run at half current for lower than 3 GeV as the beam correction magnet of HESR cannot undo the full current effect. Hence, that's how PANDA will operate. So I would say everyone has to adjust to that fact.

As far as the tracking code changes go, I do not see any problems here, since the internal structure of the fields would be unchanged. Only the "Facade" class `PndMultiField` would be changed to load the correct fieldmaps depending on the momentum.

But correct me if I missed something.

Stefan

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