
Subject: Re: Fieldmaps for the half current solenoid
Posted by [Stefano Spataro](#) on Fri, 19 Jul 2013 11:12:14 GMT
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Hi,
this would call for a change in the "field" package.
Now we call the field with:

```
PndMultiField *fField= new PndMultiField("FULL");
```

It would be possible to implement a new flag calling for half of the solenoid field:

```
PndMultiField *fField= new PndMultiField("HALF");
```

However, one need to add:

- a) one new solenoid map, with 1/2 field
- b) two new sets of Transmap, one for 1.5 and the other for 3.0, used ONLY with the option "HALF"

In this way with "FULL" we use the standard maps, with half (working only between 1.5 and 3 GeV/c) we use the 1/2 field solenoid map. The code should be able to know that the solenoid field should never be interpolated. In reality neither the trans maps should be interpolated, but should be calculated each time...

I can suggest to work to implement such changes in the code, I don't know if somebody else have smarter ideas.
Regards