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Subject: Re: Fieldmaps for the half current solenoid  
Posted by [Stefan Pflueger](#) on Sun, 16 Mar 2014 13:26:39 GMT  
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Hi Donghee,

Looks good, I just have one comment. I was thinking to automatize this just like the dipole field maps are picked for the different momenta. So something like this:

```
if (Map=="FULL") {
  PndDipoleMap *map_d1= new PndDipoleMap("DipoleMap1", "R", fBeamMom);
  PndDipoleMap *map_d2= new PndDipoleMap("DipoleMap2", "R", fBeamMom);

  PndTransMap *map_t;
  PndSolenoidMap *map_s1;
  PndSolenoidMap *map_s2;
  PndSolenoidMap *map_s3;
  PndSolenoidMap *map_s4;

  if(fBeamMom > 3.0) {
    map_t= new PndTransMap("TransMap", "R", fBeamMom);
    map_s1= new PndSolenoidMap("SolenoidMap1", "R");
    map_s2= new PndSolenoidMap("SolenoidMap2", "R");
    map_s3= new PndSolenoidMap("SolenoidMap3", "R");
    map_s4= new PndSolenoidMap("SolenoidMap4", "R");
  }
  else {
    map_t= new PndTransMap("TransMap_Half", "R", fBeamMom);
    map_s1= new PndSolenoidMap("SolenoidMap_Half1", "R");
    map_s2= new PndSolenoidMap("SolenoidMap_Half2", "R");
    map_s3= new PndSolenoidMap("SolenoidMap_Half3", "R");
    map_s4= new PndSolenoidMap("SolenoidMap_Half4", "R");
  }

  AddField(map_t);
  AddField(map_d1);
  AddField(map_d2);
  AddField(map_s1);
  AddField(map_s2);
  AddField(map_s3);
  AddField(map_s4);
}
```

In that way the correct fieldmaps are picked like it will be the case at PANDA without the user having to make a choice. Also no changes in macros are required for the correct setting. In case we do not want to modify the "FULL" case, I would at least make this the "AUTO" case.

Best regards,

Stefan

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