Subject: about modified fieldmaps in the actual pandaroot version
Posted by Prometeusz Jasinski on Fri, 03 May 2013 10:50:48 GMT
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As announced already in the meeting in September in Paris, field maps in the forward direction were adjusted by interpolation. The deflection angle of the non interaction beam axis was not exactly 40mrad, leading to systematic effects in the measurement of the luminosity via elastic scattering. After discussion with Jost Luehning and Lars Schmitt I took existing field values and interpolated those to match the deflection angle. The interpolation factor was giving values mostly within the precision error of the original calculation with tosca.

Solenoid field is not affected. Only transition region and dipole field for the 5 energies were modified. Please report any strange behavior since most of the users should not notice any differences between those maps and the original ones. As a reference you may have a look into slides from paris:

https://indico.gsi.de/getFile.py/access?contribId=8&resId=0&mate rialId=slides&confId=1866