

# JGG Magnetic Field models

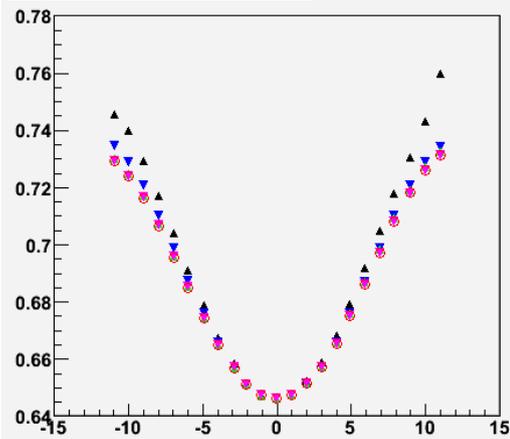
Comparison of models of the JGG magnetic field  
with the measured field map from Ziptrack.

Holger Meyer

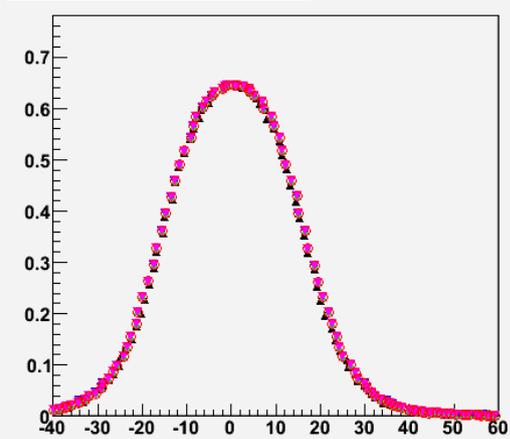
8 June 2006

MIPP software meeting

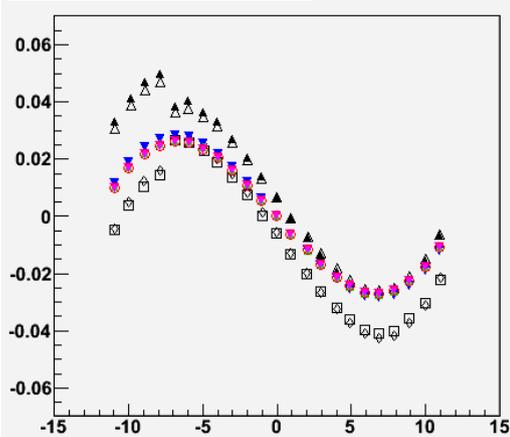
JGG By vs. y at x==0, z==0



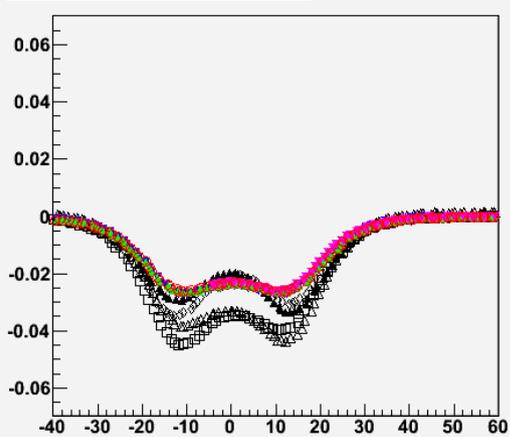
JGG By vs. z at x==0, y==0



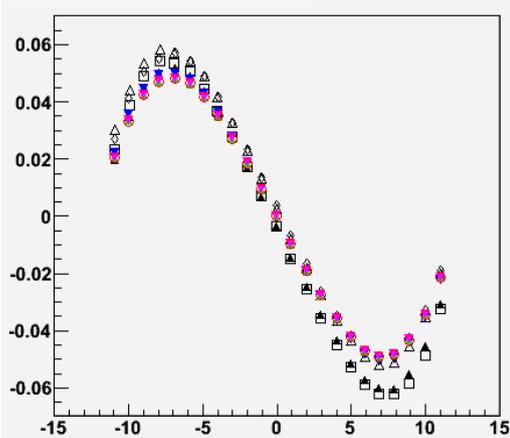
JGG Bx vs. y at x==5, z==5



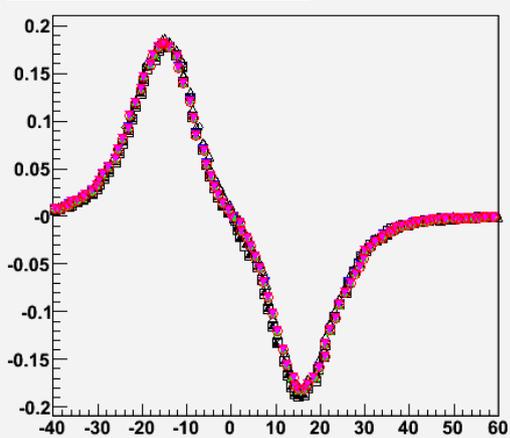
JGG Bx vs. z at x==5, y==5



JGG Bz vs. y at x==5, z==5



JGG Bz vs. z at x==5, y==5



• Legend:

- Black triangles: Ziptrack map
- Blue: period 1, should agree with Ziptrack!
- green: period 2, after first coil failures
- magenta: period 3, most of our data
- red open circles: period 4, last weeks of data before total magnet failure
- open black symbols: Ziptrack map from other quadrants (sign flipped where needed)

• The Ziptrack map should have symmetry in all octants, as does the modeled map for period 1.

• The deviations from this expected symmetry are larger than the deviations between different coil failure models.