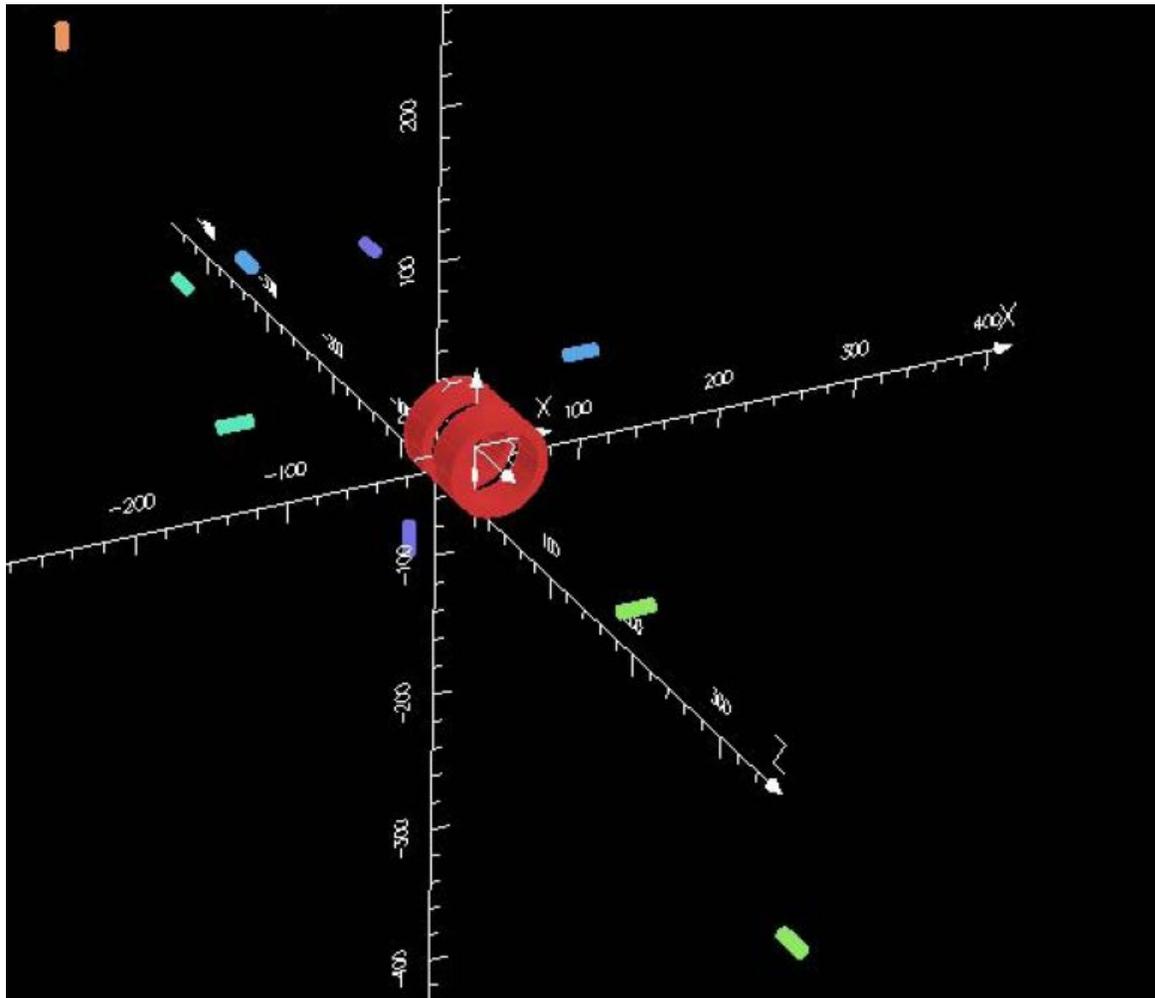

MTA shielding updates

D. Huang

Illinois Institute of Technology

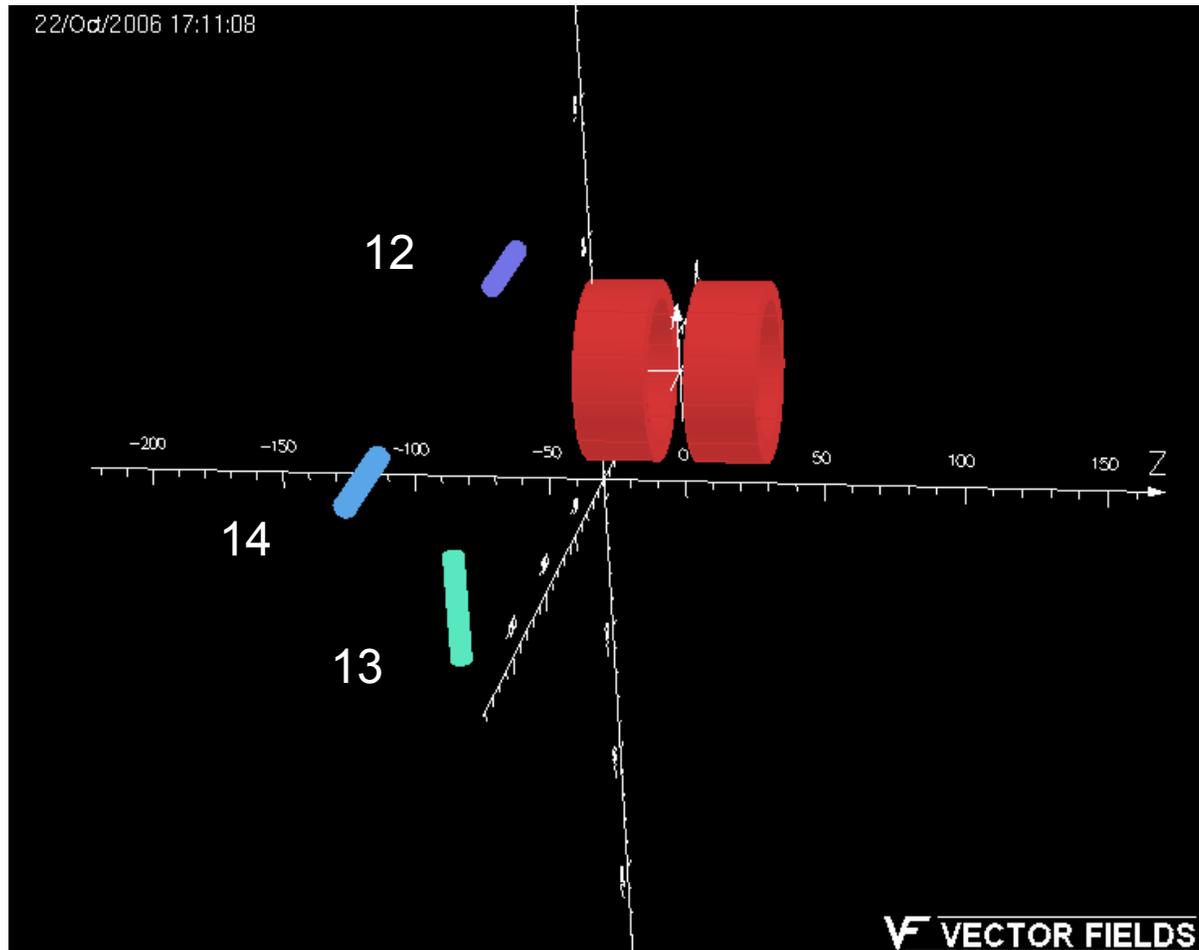
FNAL

locations of counter shields



Recently, we Installed a new counter at $(93'', 0, -58'')$, therefore, there are totally 10 counters and 10 shields

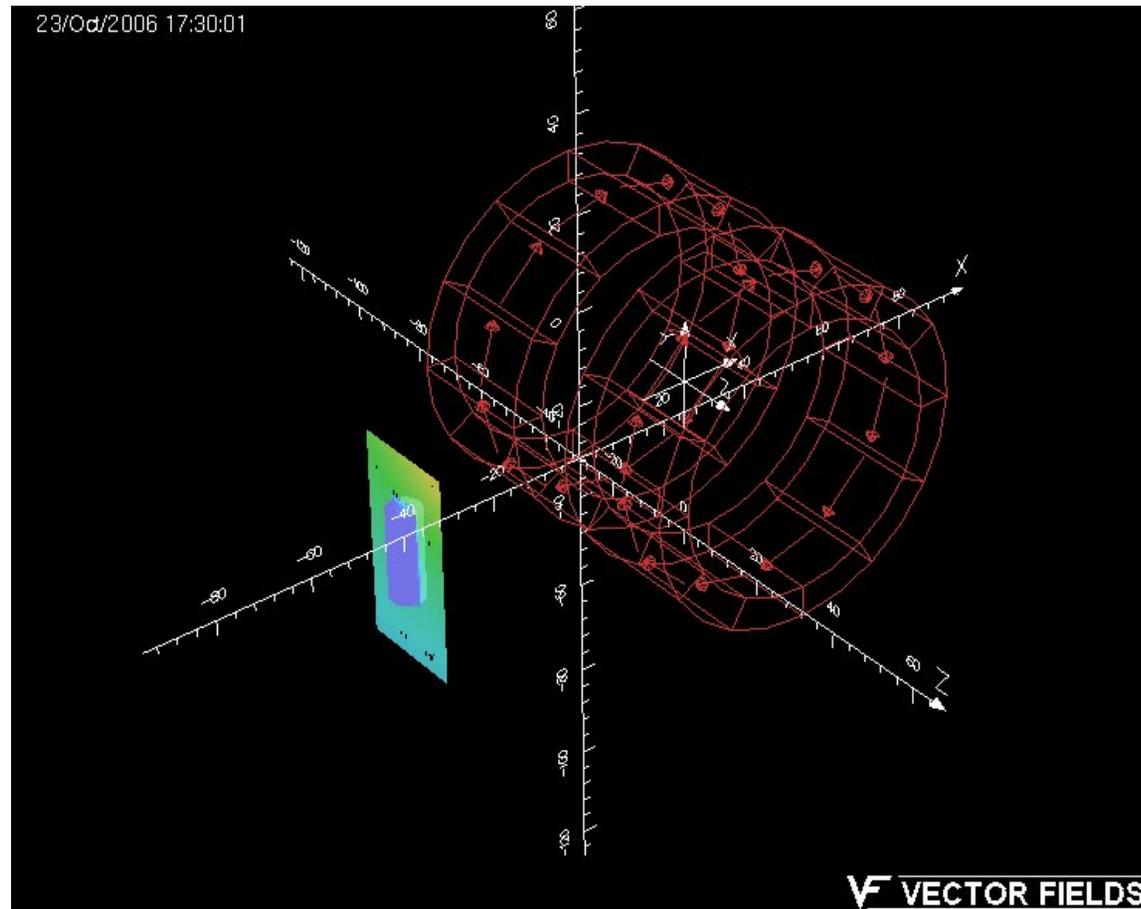
The 3 tubes closest to the solenoid



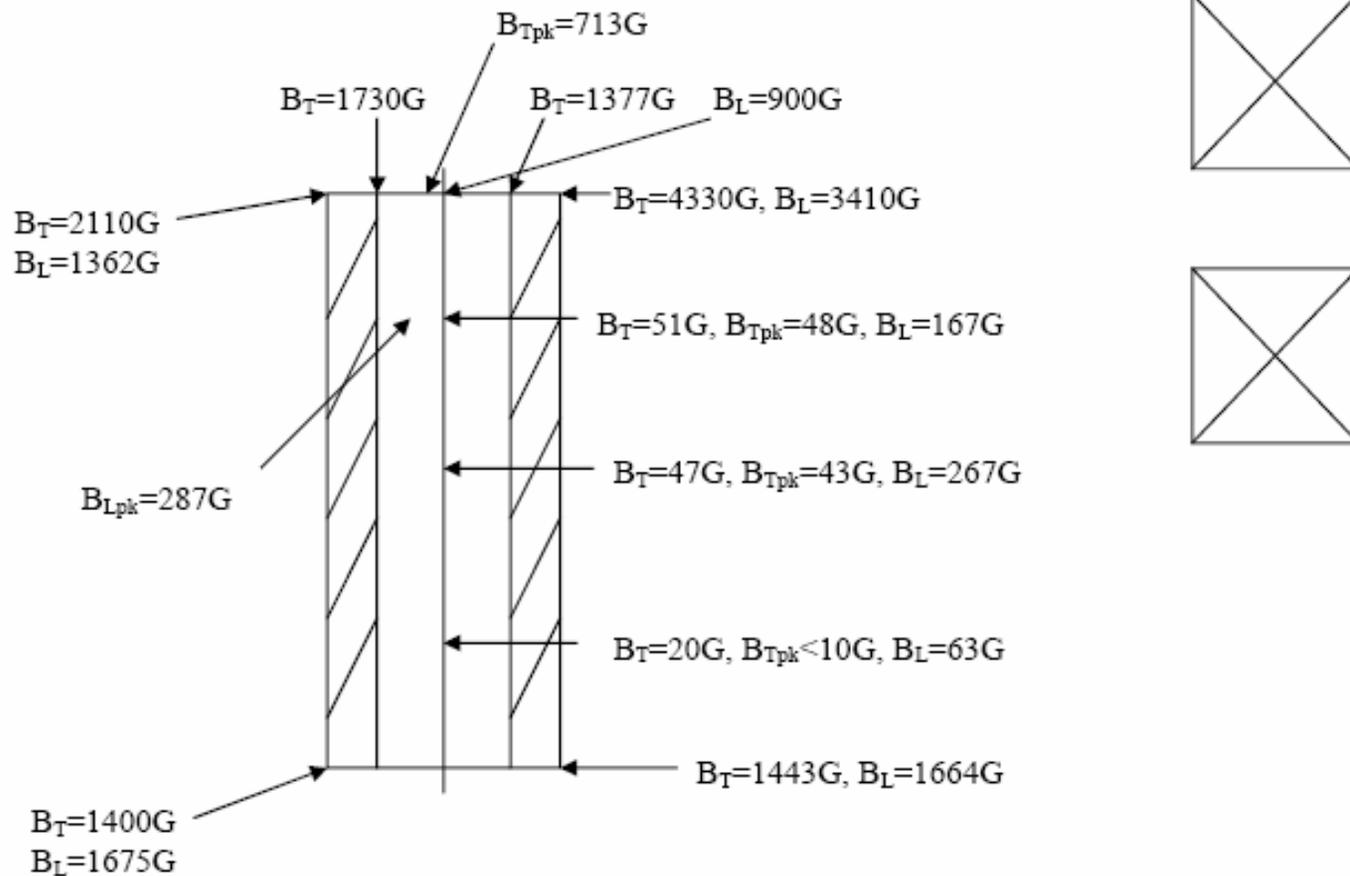
Counter 13, closest to the coils



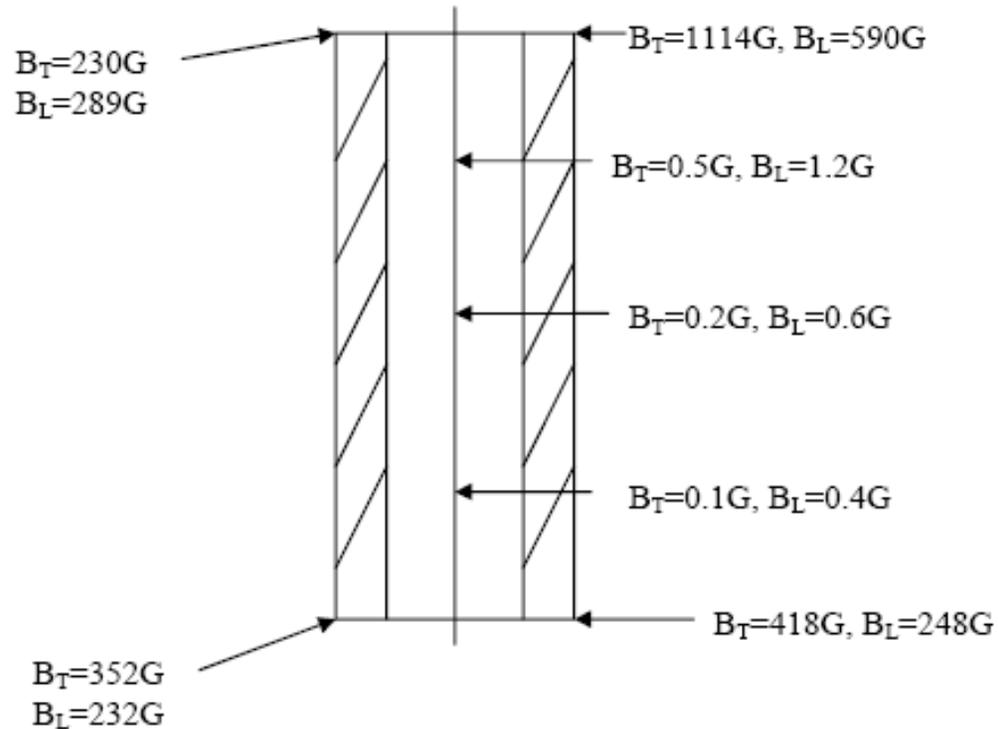
The plane on which magnetic measurements were made with Gauss meter: mid-cross section on y-z plane



Large discrepancy: measurements

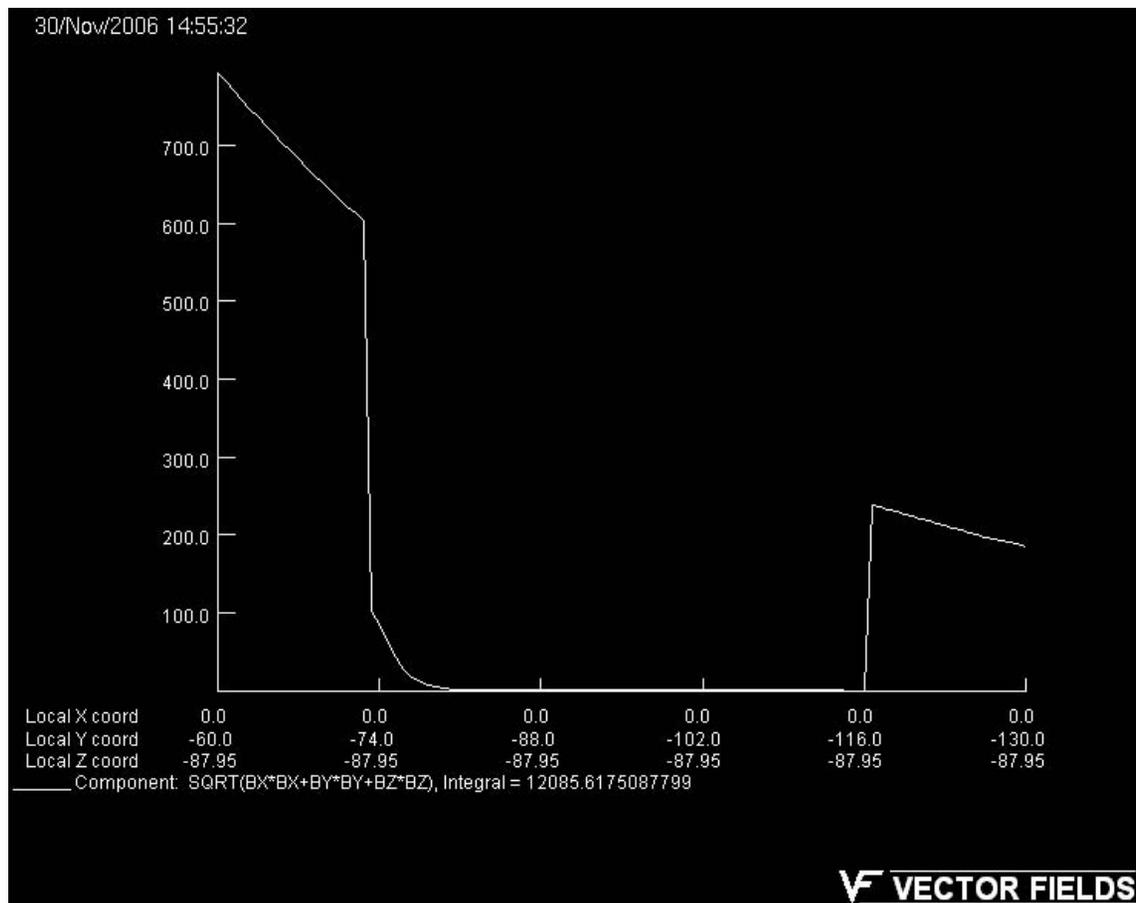


Large discrepancy: calculations by OPERA

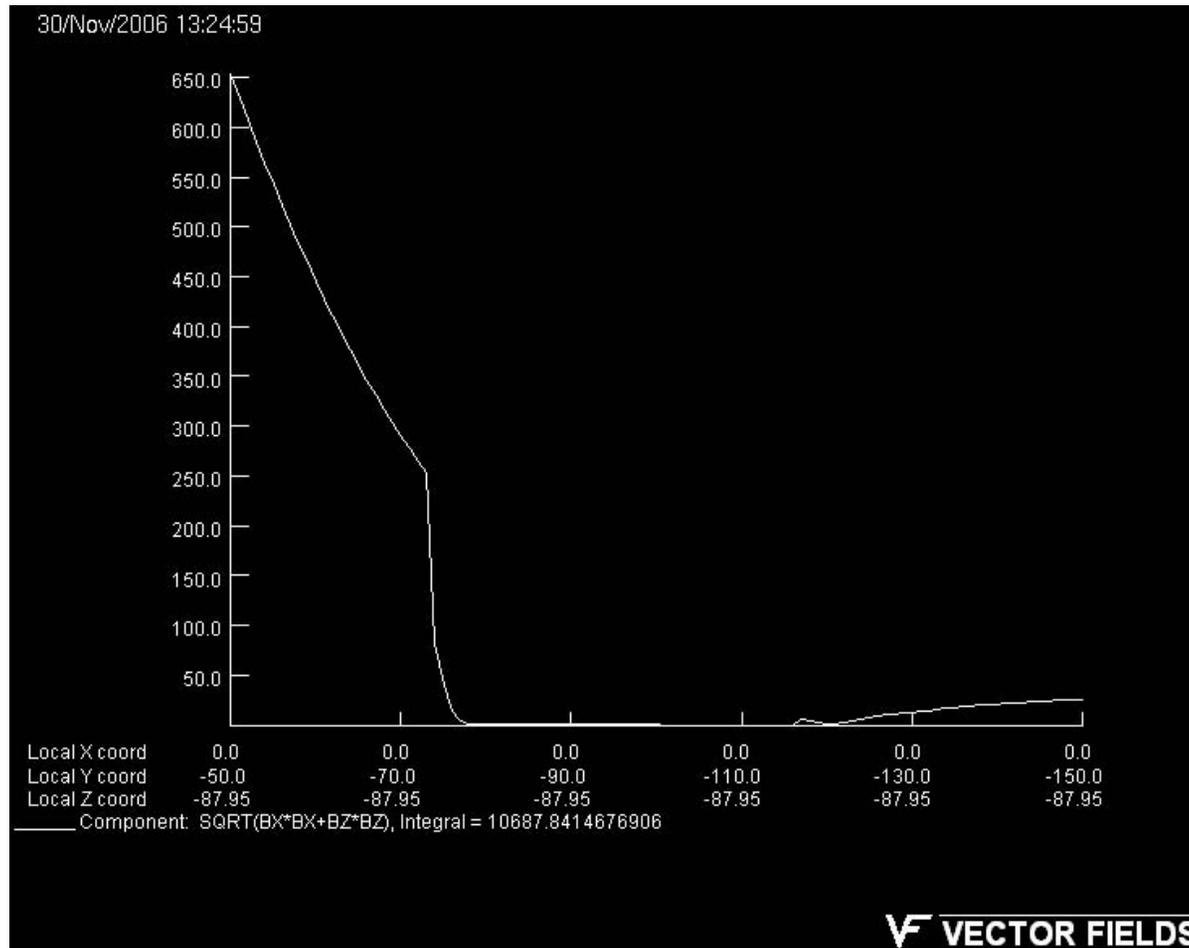


OPERA: B field on center axis of tube:

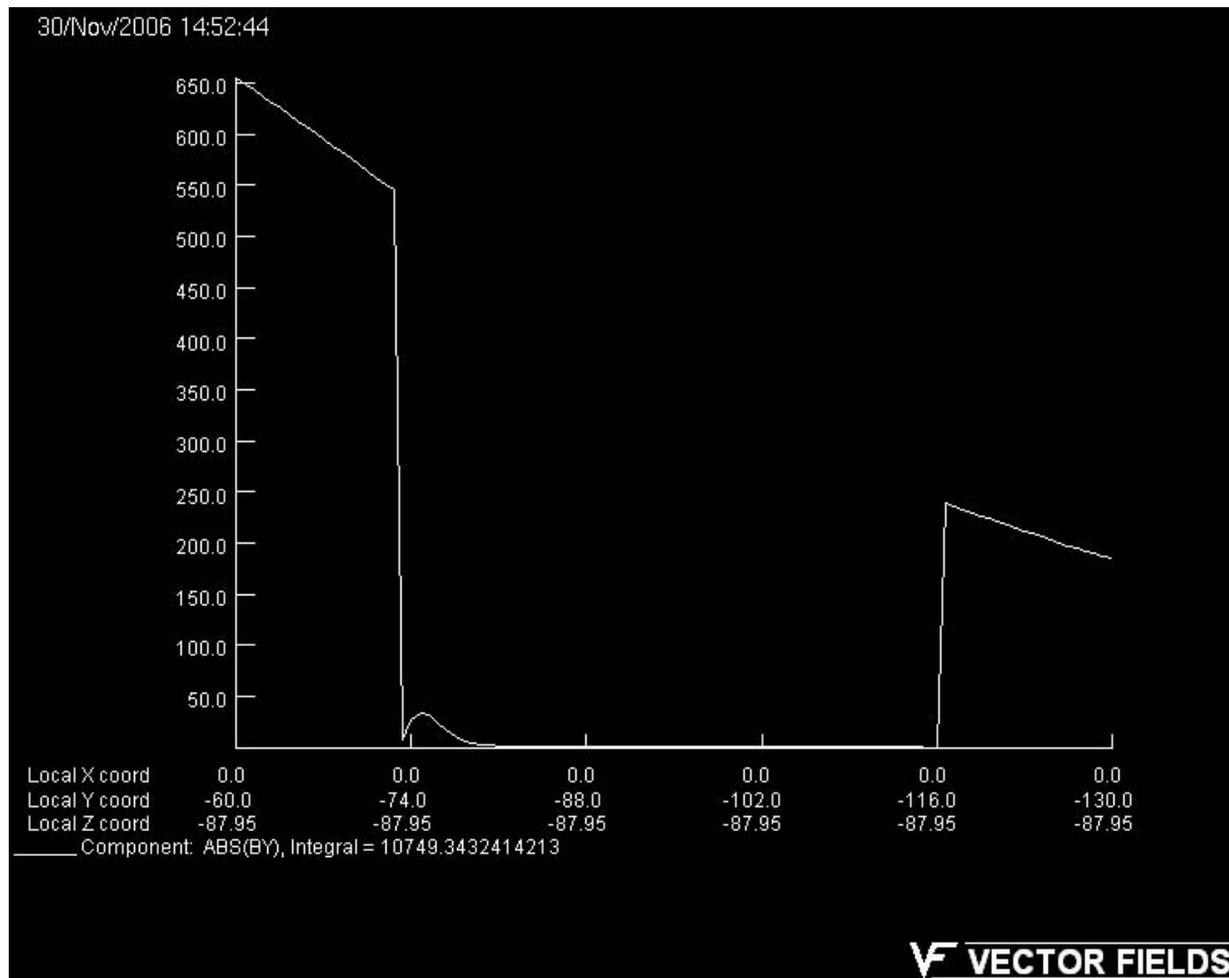
B_{tot}



OPERA: B field on center axis of tube: B_T



OPERA: B field on center axis of tube: B_L



Conclusions

- The reason of discrepancy is still unknown
- Multiple layers of Mu-metal may be an option to obtain desired shielding