Software Issues for the DBD

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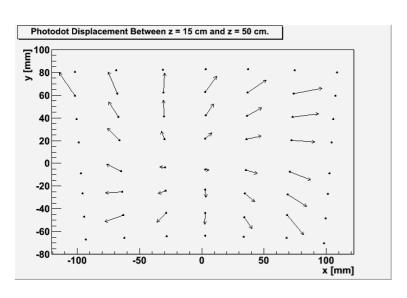


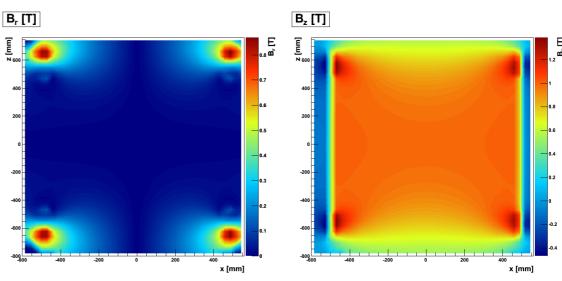
My favorite slide





- Alignment
 - Use measurements with and without B field
 - Use external reference system
 - Iterative procedure: Fit → determine alignment parameters → Re-Fit
- Calibration
 - Crucial for resolution
 - Measurements with photo dot system show large effects (Jason Abernathy)
 - Calculations (e.g. by Keisuke) show the very clear need





The critical items





Calibration and Alignment tools

- Cross-site ability to reconstruct, analyze and compare data
 - Data location table (with additional information) incl. run list
 - LCIO data, GEAR, channel mapping (database) + steering files
- Proper error calculation and propagation trough complete chain
- Documentation Tutorials? Examples?
 - Help the wiki: https://znwiki3.ifh.de/MarlinTPC/
- Technical tasks for test beam operation:
 - Quick checking → standard reconstruction chain
 - Standard logging of conditions data including conversion