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## LCTPC Preparations for DBD: Field Cage

Klaus Dehmelt/Volker Prahl DESY *WP Meeting 100* DESY Hamburg Mar. 04, 2010





Brainstorming and collection of information:

- What are the major concerns regarding ILD-TPC Field Cage?
  - Wall, insulation, gas tightness
  - Field strips, resistors
  - Connection to end plates
  - Cathode and HV
  - Laser, Cooling
  - Infrastructure (gas supply, exhaust, mounting, monitoring, etc.)

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- Discussion about FEM/Optimization of laminate structure
- Collection of various companies regarding production, in particular who is able to handle such a big cylinder

Status

- Experience from the LP to be extrapolated
- Who else has experience in building such large scale TPC?

Obviously ALEPH, STAR, ALICE

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- Collect information:
  - ALEPH TPC-FC
  - STAR TPC-FC
  - ALICE TPC-FC
- Start performing calculations for various materials/compositions/...

Plans

Contact companies

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