# DCH: TDR issues

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Perugia – IX SuperB General Meeting

# Issues Being Addressed:

#### 1. Gas mixture

- Garfield studies ongoing
- experimental setups @ LNF & UVic operational
- goal is to have a clear picture by the end of 2009

#### 2. EndPlates

- Minimize material budget
  - Carbon Fiber + curved endplates
- Minimize inner layers occupancy
  - Tapered endplates or mechanical quenching

### 3. Cell shape

- hexagonal vs. square
- some consensus emerging towards square cells à la CLEO-KLOE

# Issues to be Addressed:

## 4. Stereo+axial vs. stereo only

- Optimize filling of active volume
- need detailed study of impact on
  - tracking and pattern recognition
  - L1 trigger

#### 5. Electronics

- baseline is BABAR
- cluster counting being considered

## Issues:

- Many correlations, especially between 1. and 5.,
  1. and 3., 2. and 3., 3. and 4., 4. and 5.
- For 1.-5. need accurate study of backgrounds