

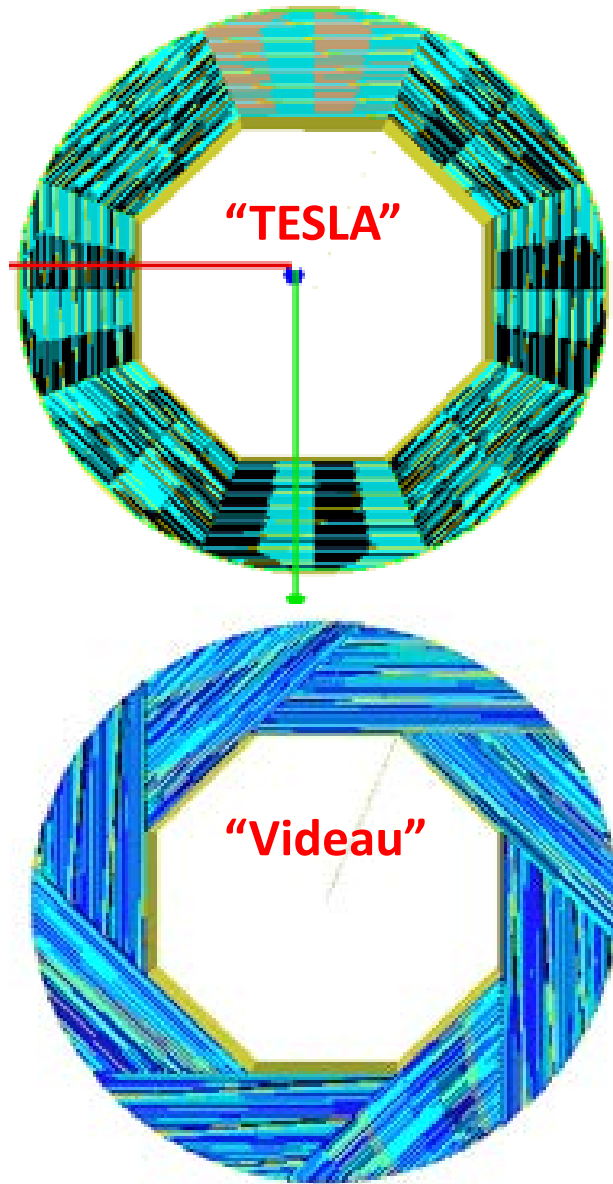
“VT TASK FORCE”

Investigate the two proposed HCAL mechanical options

Initial members: CDI and CALO conveners
(to be completed with specific experts)

Among related issues:

- Effect on physics of φ and z cracks (90° and barrel-endcap transition)
- Mechanical stability (static and dynamic), to be also evaluated with a potentially smaller radius
- Transport / assembly procedures.
- Impact on ECAL design.
- Signal paths and electronics accessibility/reliability
- Implementation in ILD software



“ANTI-DID TASK FORCE”

Investigate need and feasibility of an anti-DID

Initial members:

CDI and VFS conveners + 1 VTX & 1 TPC representative

(to be completed with specific experts)

Anti-DID goal: add a small dipole field to the main solenoid field in order to guide direct beamstrahlung pairs to the in/outgoing beam pipes and the backscattered particles within the beam pipe.

Among related issues:

- Technical feasibility of the anti-DID coil and the required B field map
- Compatibility of the B field and TPC requirements
- Combined optimization for both direct beamstrahlung and backscattered particles
- Effect on polarimetry
- Maximum tolerable occupancies of the Vertex and TPC
- Alternative simulation options (anti-DID dependent BG files)

