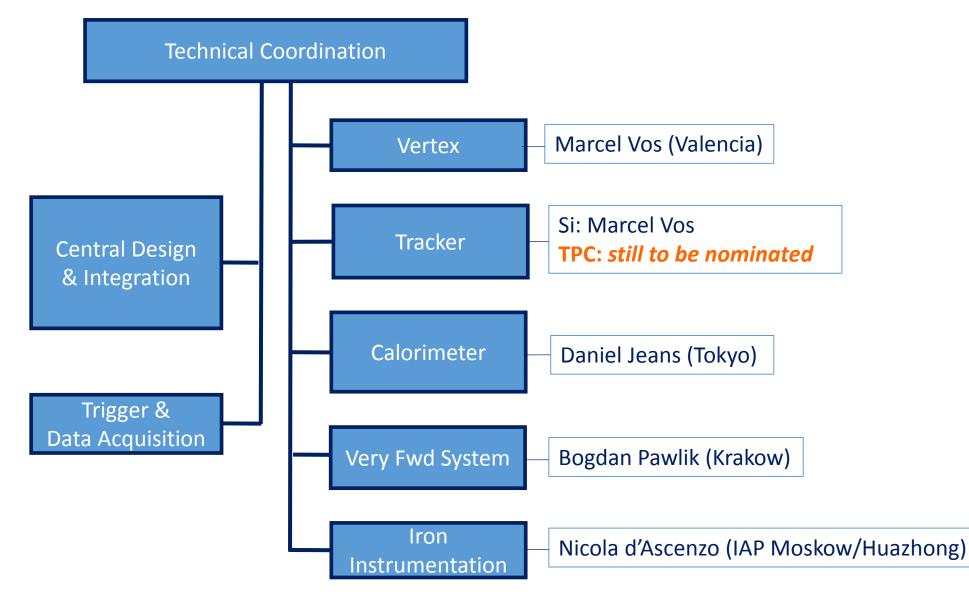
ILD meeting 21 September 2016

REPORT FROM THE TECHNICAL COORDINATOR

Updates on:

- Positions
- Interface documents
- Subdetector inputs to ILD models
- VT and anti-DID task forces
- Calibration questions

POSITIONS: SUBDETECTOR SOFTWARE CONTACTS



POSITIONS: TASK FORCES

VT-Task Force:

(Investigation of the two proposed HCAL mechanical options) CDI conveners: K. Buesser, R. Poeschl, T. Tauchi CALO conveners: J-C. Brient, I. Laktineh, W. Ootani, F. Sefkow

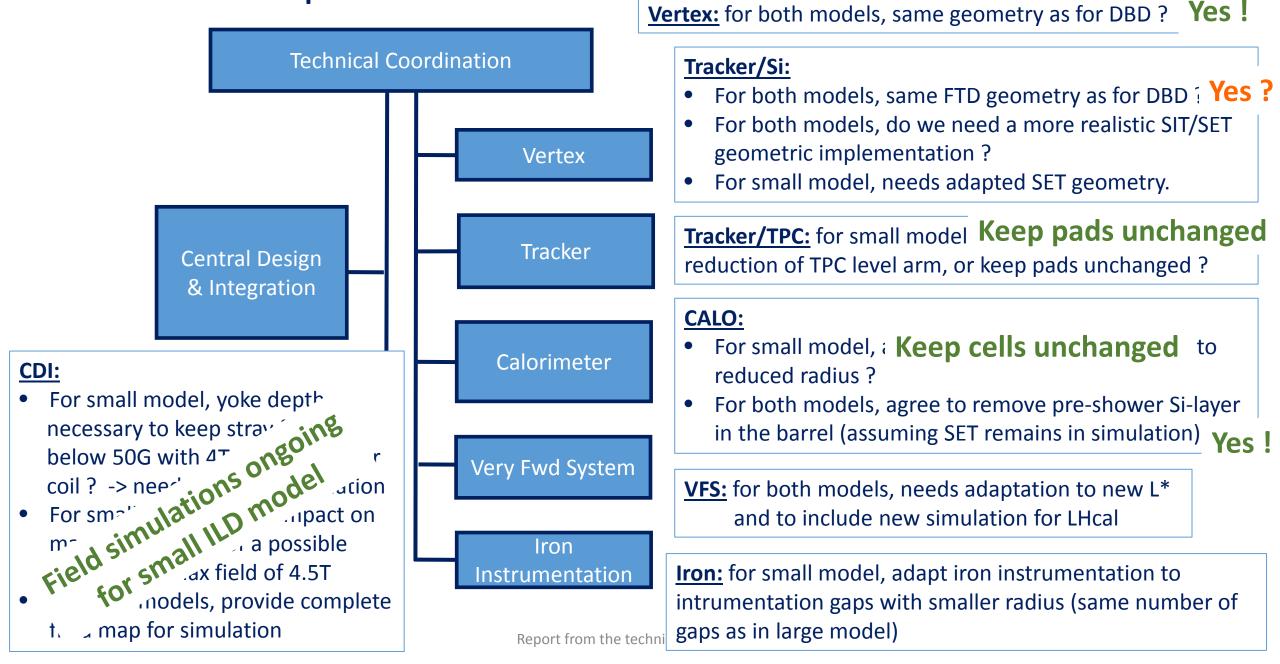
Anti-DID Task Force:

(Investigation of the need and feasibility of an anti-DID) CDI conveners: K. Buesser, R. Poeschl, T. Tauchi VFS conveners: Y. Benhammou and S. Schuwalow VTX representative: A. Ishikawa TPC representative: P. Colas + Ron Settles (added to the team) Coil expert: Ch. Berriaud (Saclay) BG simulator: still to be nominated

SUBDETECTOR INTERFACE DOCUMENTS

- Updated version being exercised with Si-ECAL
- Final version planned to be released to subdetector groups beginning of November
- Also identified the need for a specific central ILD design document.

Subdetectors inputs to ILD models



VT 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 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)

TASK FORCE MEETINGS

scheduled in Orsay on Nov 7th (anti-DID) and Nov. 8th (VT)

Focus on review of past studies and launch of new investigations: detailed agenda under definition, all experts and interested persons welcome !

> Anti-DID task force will benefit from a visit to the Toshiba coil manufacturor in Japan end of September

SUBDETECTOR CALIBRATION

- Answers to questions start to arrive (AHCAL and SDHCAL)
- A global issue which should also involve the physics and software groups
 → a Wednesday meeting could be devoted to this
- CLICdp is reported to perform a similar study, some coherence should be pursued