

MDI activities

The Lol document submitted last April include a detailed chapter describing the MDI guidelines of SiD

All the technical solutions described in the Lol match the requirements from the IR interfaces document.

Last month has been spent to answer the MDI IDAG questions. They are not very challenging but I have personally liked very much the idea of the Excel fact sheet. I suggest to implement this tool in the MDI panel to quick access information and track the progress.

We are capitalizing on Alain Herve visiting SLAC for two months (started May 11th) and expect to increase the reach with the visit of Klaus Simran next week. By chance Toshiya Sanami (KEK) is also at SLAC for one month, providing supports for the radiation shielding issues

PACMEN

Pacman requirements :keep the dose below 250mSv/h in case of a 18MW full beam loss. Rad-simulations ask for : Inner bore R80cm-50cmFE-200cmConcrete -> 120 tons per wing

A common rotating Pacman a-la SiD, hinged on the cavern wall, is compatible with both detectors.

Each detector concept will have to carry on the doors a fraction of the shielding, different for ILD and SiD

ILD adopt a pillar support for QD0, SiD carry the doublet in the door : it may implies to add or remove shielding patches on the rotating pacmen. The size and the time required will be in the shadow of the push pull operations.

The Pacman size is not optimized for the background on the detector

Push-Pull

We are studying the possibility to have both detectors in the IR hall preserving the technical solutions described in their respective Lols

Full convergence on strand jacks, as described in the SiD Lol, as the system to provide the motion : compact, reliable, straightforward integration in the hall

Few options draft so far, as all the compromise solutions, they are not the most elegant by definition



