

Beam delivery status
February 3, 2009

For past month, the BDS efforts continued on several directions. The ATF2 commissioning, while studies focused on fast kicker in January, resumed in February, aiming for commissioning of the laser wire mode of Shintake monitor and tuning of the beamline. A lot of efforts are put in organization of the commissioning team, for proper scheduling of task, shifts, as well as for training of younger colleagues.

The IR Integration leaders, in connection with MDI-D group, are working on finalization of the IR Interface document, aiming to finish it in the beginning of February. Also, the magnetic design of SC FD for ATF2 upgrade is being finalized and transferred for further detailed 3d cad design.

The Accelerator design & integration team discussed plans to produce a slightly shorter beam delivery, with increased emittance growth at 1TeV, where the present conflict between polarimeter and MPS functions will be resolved, by placing a dedicated polarimeter chicane upstream of tune-up line.

Within the Accelerator design & integration, a Vacuum science task force has started, which, in close connection to IR Integration and MDI-D teams, will focus on investigation of vacuum system requirements and configuration for the IR area.

Together with GDE commissioned physics study group, BDS experts were contributing continued to evaluation of the low energy first stage photon collider, followed by suggestion by Sugawara-san. A report is practically ready for submission to ILCSC.

Within the Accelerator design & integration work package, the Energy-saving magnets & Power Supplies sub-work package leaders has started discussion of the planned work, which would include developing concepts of PS-Magnet package to minimize the overall cost, as well as to study other ideas that will allow energy saving, like high-T magnets.