Monthly L2 Status Report -

WBS: 02.06 - Machine-Detector Interface





Milestone Status (Progress) **Resource Conflicts, Plan Changes and Issues** · Design of high-performance systems to suppress radiation None. load on the Higgs Factory (HF) SC magnets and detector. · Background studies with developing background rejection techniques. Late Items Starting a real work on 3-TeV MC MDI and ring model. **Summary of Previous Month Quarterly Plans** The optimized design of the HF MDI and magnet protection Q4: Build a consistent MARS model of a 3-TeV MC IR and system frozen with simulation results on radiation loads and matching section, their magnets, detector and MDI; launch detector backgrounds summarized and presented in two simulations on radiation loads and backgrounds. IPAC14 papers. Background rejection techniques applied to the HF detector. • MARS model of the 1.5-TeV muon collider (MC) revived and updated. · Developments for MARS installation on NERSC completed. Upcoming Work (Next Month) • Perform MARS simulations with the updated model of the 1.5-TeV MC. Install and test MARS15 on the NERSC computers. Start work on MARS model of a 3-TeV MC.