ILCX2021 ILC Workshop on Potential Experiments

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INTRODUCTION TO DETECTOR PLENARY DISCUSSION FORUM

Propose to structure the discussion along 3 points:

1) Incremental improvements to current ILC detector baseline concepts

e.g. high resolution timing / large area pixel trackers / EM calorimeter pixel layers… (as from HL-LHC upgrades) vs ILC-driven material/power/DAQ constraints

2) Incorporation of / merging with alternative concepts

e.g. compensating calorimetry for hadronic jets / high EM resolution for π^0-γ … (as from circular e^+e^- concepts) vs ILC current particle flow baseline (re-focus detector design to initial 250 GeV energy?)

3) Convergence of global engineering layouts

e.g. detector size&structure vs B-field vs coil technologies