

BEAM DYNAMICS ASPECTS OF THE ILC MODULE TEST FACILITY AT FERMILAB

P. Piot, Northern Illinois University, DeKalb, Illinois

Abstract

Fermilab is planning the construction of an ILC module test facility whose primary mission is to test subsystems associated to the ILC proposal. This facility will eventually accelerate electron bunches produced by a photo-injector up to ~ 1 GeV. The injector is based on an upgrade of the soon-to-be-decommissioned Fermilab/NICADD photoinjector laboratory. Design philosophy and performances along with start-to-end simulations of the facility are discussed. We also explore the potential applications of the electron beam produced at this facility both for ILC-related R&D and beyond.

**PAPER NOT
RECEIVED**