

The Tufts effort for the International Linear Collider

The extraction line that accepts the disrupted beam from the interaction point is used to provide measurements of the the beam energy and polarization as the the beam is transported cleanly to the dump.

At Tufts we have specialized on the design of the Compton polarimeter to measure the beam polarization.

To evaluate the ratio of signal to background to be expected in the polarimeter, we are constructing a computer model of the entire extraction line.

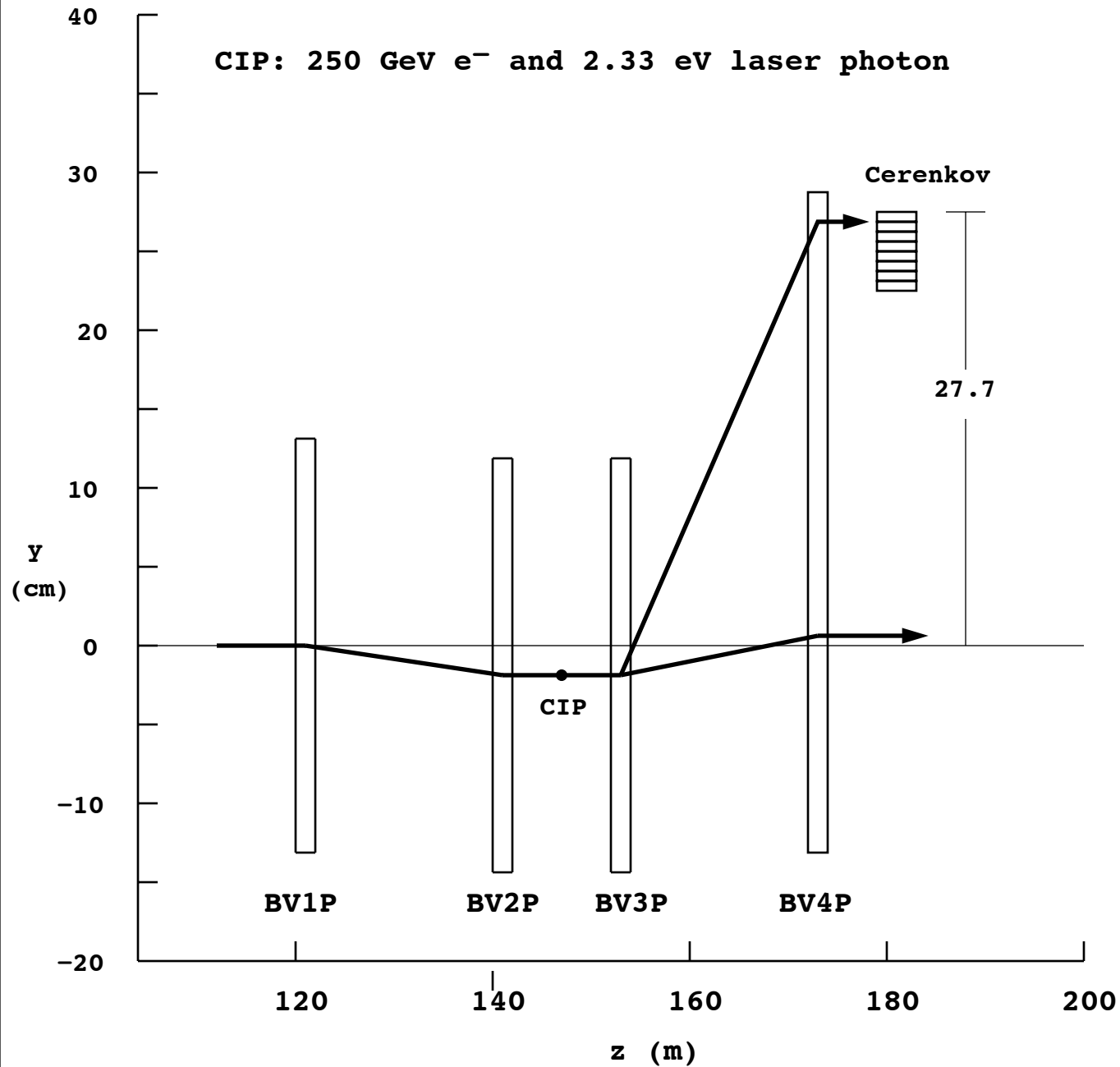
We are developing both a GEANT3 and a GEANT4 model of the extraction line.

William Oliver is developing the GEANT3 model.

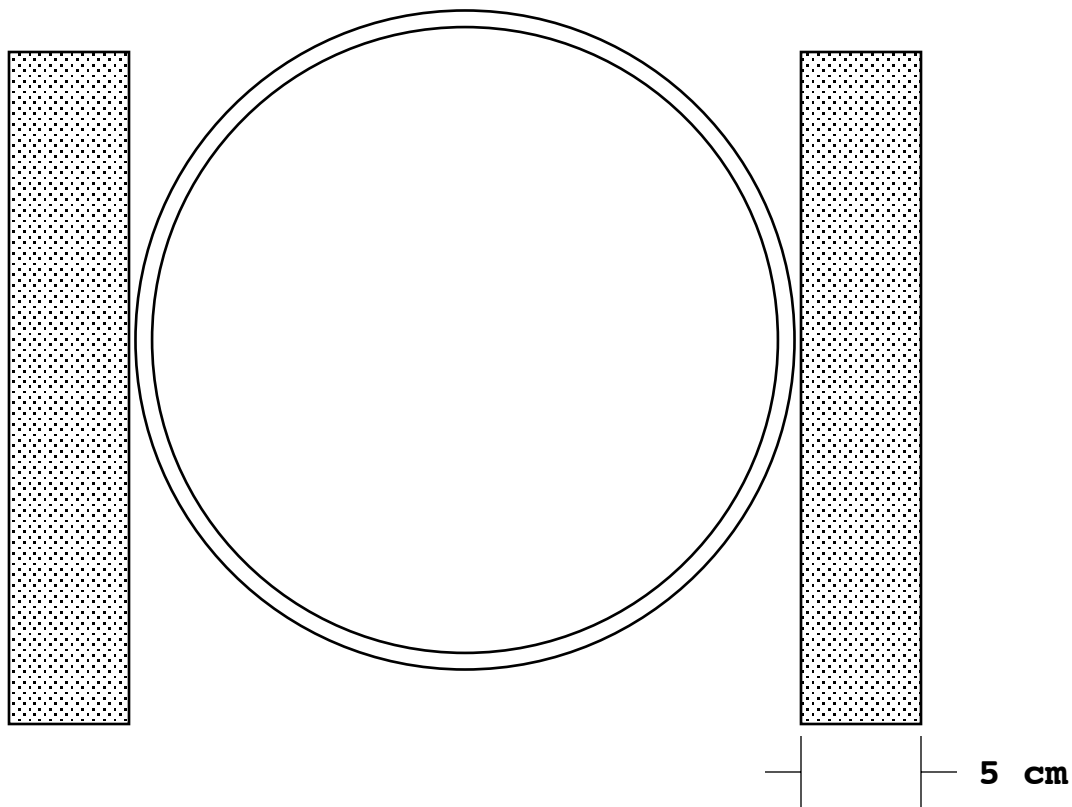
Nathaniel Tagg is developing the GEANT4 model.

Tagg and Oliver work together to make sure their results are consistent.

CIP: 250 GeV e^- and 2.33 eV laser photon



The beam pipe near BV2P and BV3P



The beam pipe near BV4P

