Contribution ID: **155** Type: **not specified**

Luminosity measurement at 500 GeV and 1 TeV ILC

Tuesday, 28 May 2013 14:30 (25 minutes)

We present the method of luminosity measurement at the future linear collider (ILC) that corrects for the impact of the dominant sources of systematic uncertainty originating from the beam-induced effects and the background from physics processes. Some of these systematic corrections can be done in a simulation independent manner. With the introduced corrective methods we show that the overall systematic uncertainty of the luminosity measured in the peak region above 80% of the nominal center-of-mass energy meets the physics requirements to be at the permille level at all ILC energies.

Presenters: Mrs PANDUROVIC, Mila (Vinca Institute of Nuclear Sciences); LUKIC, strahinja

Session Classification: Calorimetry, Muons