

ICHEP2012



Contribution ID: 265

Type: **Poster Sessions**

Physics and detector studies with the very forward calorimeters at a future linear collider

Saturday 7 July 2012 18:00 (1 hour)

The very forward region at a future $e+e-$ collider detector will be instrumented with calorimeters dedicated primarily for precise measurement of the integral luminosity, providing at the same time information for beam-tuning, shielding of the inner detectors and also improving the overall detector hermeticity. Detector designs optimized for the ILC and CLIC colliders are presented, with emphasis on the precise integral luminosity measurement. Physics and machine-related effects are discussed, contributing dominantly to the systematic uncertainty in the luminosity measurement. In addition, recent results of the performance studies of sensor planes for the ILC forward calorimeters assembled with the dedicated FE and ADC ASICs are given.

Author: Dr BOZOVIC-JELISAVCIC, Ivanka (Vinca Institute of Nuclear Sciences, University of Belgrade (RS))

Presenter: Dr BOZOVIC-JELISAVCIC, Ivanka (Vinca Institute of Nuclear Sciences, University of Belgrade (RS))

Session Classification: Poster Session

Track Classification: Track 13. Detectors and Computing for HEP