

# First ECFA WORKSHOP.

Contribution ID: 92

Type: **Poster**

## Very forward calorimeters at ILC/ILD

*Thursday 6 October 2022 17:30 (2 hours)*

Detectors at future e+e- colliders need special calorimeters in the very forward region for a fast estimate of instantaneous and precise measurement of the integrated luminosity. In ILD detector concept, two such calorimeters are foreseen, LumiCal and BeamCal. Both are designed as sandwich calorimeters with very thin sensor planes to keep the Molière radius small, facilitating measurement of the high-energy electron showers. Silicon sensor prototypes and dedicated FE ASICs have been developed and produced matching the timing and dynamic range requirements. The status of the calorimeter prototype performance in the recent beam tests at DESY will be presented, against the expected performance obtained from simulation.

**Primary authors:** BOZOVIC JELISAVCIC, Ivanka (VINCA Institute of Nuclear Sciences, University of Belgrade (RS)); KAWAGOE, Kiyotomo (FLC (Forschung an Lepton Collidern))

**Presenter:** BOZOVIC JELISAVCIC, Ivanka (VINCA Institute of Nuclear Sciences, University of Belgrade (RS))

**Session Classification:** Poster Session

**Track Classification:** WG3 - Detector R&D