Contribution ID: **118** Type: **Oral presentation using Zoom**

Forward calorimeters for a future electron-positron collider

Wednesday, 27 October 2021 19:50 (20 minutes)

The FCAL collaboration is preparing large-scale prototypes of special calorimeters to instrument the very forward region at a future electron-positron collider, in particular ILC. The forward region sets challenging requirements on several detector parameters, such as detector compactness, radiation hardness, or ASICs readout parameters. Prototype detector planes assembled with dedicated FE and ADC ASICs were built using silicon or GaAs sensors and installed in an electron test beam. The status of the FCAL R&D activity with emphasis on physics and technological challenges is given.
This talk covers the latest status of the luminometer prototype development and selected performance results obtained in test-beam measurements against the expected performance in simulation.

1st preferred time slot for your oral presentation

15:30-17:30 JST (8:30-10:30 CEST, 2:30-4:30 EDT, 23:30-1:30 PDT)

2nd preferred time slot for your oral presentation

19:00-21:00 JST (12:00-14:00 CEST, 6:00-8:00 EDT, 3:00-5:00 PDT)

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Session Classification: B-3: Calorimeters

Track Classification: Parallel sessions: Detectors: Session B: Calorimeters