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Instrumentation of ILC detectors forward region

The objective of FCAL Collaboration is to design and optimize the very forward region of future Linear Collider detectors. This comprises the development a luminosity calorimeter, LumiCal, for precise luminosity measurement, and a development of a radiation hard beam monitor detector, BeamCal, for a fast luminosity determination and beam parameters control. Together with low angle hadronic calorimeter, LHCAL, these devices should also ensure the detector hermeticity in the forward region. We present R&D activities focused on development and beam tests of prototype detectors and readout ASICs.

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