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A Pb-SciFi Calorimeter for the Small Angle Interaction Region of BESIII at BEPCII

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A minicalorimeter has been built in the Frascati National Laboratory (LNF) of INFN for the BESIII detector, based at the BEPCII storage rings of the Institute of High Energy Physics (IHEP) of the Chinese Academy of Sciences.

It has been installed in one of the two small-theta angle regions of BESIII to measure the energy of photons from Initial State Radiation (ISR) events with an expected resolution of approximately $10\%/\sqrt{E} \text{ (GeV)}$.

The technique used is the sandwich of Pb and scintillating fibers employed for the KLOE calorimeter at the DAFNE accelerator at LNF, but the readout is actuated by way of bundles of clear plastic fibers.

We present here fabrication details as well as results from tests in cosmic rays and at the Frascati Beam Test facility (BTF). We also show its installation in the experimental area and some very early results from data taken during $e^+ e^-$ collisions.

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