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A LYSO calorimeter for the SuperB factory

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The SuperB project is an asymmetric e^+e^- accelerator of $10^{36}\text{cm}^{-2}\text{s}^{-1}$ design luminosity, capable of collecting a data sample of 75 ab^{-1} in five years running. The SuperB electromagnetic calorimeter (EMC) provides energy and direction measurement of photons and electrons, and is used for identification of electrons versus other charged particles. In particular we present its design, geometry study and related simulations, as well as RD on LYSO crystals and developments on readout electronics. A matrix of 25 crystals has been tested at the Beam Test Facility of Frascati (BTF) in May 2011 at energies between 100 MeV and 500 MeV. Results from this test are presented.

quote your primary experiment

SuperB

Primary author: ROSSI, Alessandro (INFN Perugia)

Presenter: ROSSI, Alessandro (INFN Perugia)

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