

The Electromagnetic Calorimeter of the SuperB Detector

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SuperB will run on a very high luminosity asymmetric e^+e^- flavour factory. Being a natural partner of hadron colliders, SuperB will provide a unique information about the details of the physics discoveries in the coming decade.

The SuperB detector is based on the Babar apparatus, with those modifications required to operate at a luminosity of 10^{36} or above.

In this presentation all the R&D work performed on the new electromagnetic calorimeter will be shown. A 25 LYSO-crystal prototype have been tested with electron and pion beams providing an energy resolution of about 3% for 1 GeV electrons.

A comparison with a full MC simulation will also be discussed.

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