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A CGEM Inner Tracker for the BESIII experiment

A Cylindrical GEM (CGEM) detector with analog readout is being developed to upgrade the Inner Tracker of the BESIII experiment at IHEP (Beijing, P.R.C.).

In this poster a brief presentation of main features of the new tracker will be provided, with particular attention to the peculiar innovations with respect the state of the art in actual GEM detectors. Details of the construction techniques of the various layers will be shown.

Moreover, preliminary results from a test beam performed at CERN will be presented. The results will be focused on spatial resolution with different configuration of magnetic field, gas and field applied.

The project has been recognised as a Significant Research Project within the Executive Programme for Scientific and Technological Cooperation between Italy and P.R.C. for the years 2013-2015, and more recently has been selected as one of the project funded by the European Commission within the call H2020-MSCA-RISE-2014.

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