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The Barrel Calorimeter for the GlueX Experiment at Jefferson Lab[1] ZISIS PAPANDREOU, University of Regina, THE GLUEX COLLABORATION — The GlueX experiment at Jefferson Lab will search for exotic hybrid mesons as evidence of gluonic excitations, in an effort to understand confinement in QCD. The key features of this compelling physics program will be presented together with an overview of the detector, focusing on the electromagnetic barrel calorimeter (BCAL). The BCAL is a "spaghetti calorimeter," consisting of layers of corrugated lead sheets, interleaved with planes of 1-mm-diameter, double-clad, scintillating fibres, bonded in the lead grooves using optical epoxy. This detector will consist of 48 modules and will be readout using 3,840 large-area Multi-Photon Pixel counter arrays. The experiment is now in the installation phase with data taking expected in 2015.

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