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Forward photon energy spectrum at LHC 7TeV p-p collisions measured by LHCf

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The LHCf experiment is one of the LHC forward experiments. The aim of the LHCf is to measure energy and transverse momentum spectra of neutral particles, gamma-rays, neutrons and neutral pions, due to calibrate the hadron interaction models which are used in air shower simulations. The LHCf detectors are composed of sampling and imaging calorimeters and had been installed 140m from a LHC interaction point to cover the very forward region of collisions (pseudorapidity range $\eta > 8.4$). The LHCf has completed operations at p-p collisions of $\sqrt{s}=900\text{GeV}$ and 7TeV in 2010 successfully. The first physics paper with photon energy spectra measured at $\sqrt{s}=7\text{TeV}$ pp collisions has been submitted recently. In this talk, I will present the results.

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