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Measurement of the forward energy flow in pp collisions at sqrt{s}=7 TeV with the LHCb experiment

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We present the results on the energy flow measured with minimum-bias data collected by the LHCb experiment in pp collisions at $\sqrt{s} = 7$˜TeV for inclusive minimum bias interactions, hard scattering processes and events with enhanced or suppressed fractions of diffractive contributions. The measurements are performed in the pseudorapidity range $2 < \eta < 5$ which corresponds to the main detector acceptance of the LHCb spectrometer. The results of the measurements are compared to predictions given by several Monte Carlo event generators, which model the underlying event activity in different ways.

Author: VOLYANSKYY, Dmytro (Max-Planck-Gesellschaft (DE))

Presenter: VOLYANSKYY, Dmytro (Max-Planck-Gesellschaft (DE))

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