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Measurement of charged particle multiplicities and densities in pp collisions at 7 TeV in the forward region

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Charged particle multiplicities are studied in proton-proton collisions in the forward region at a centre-of-mass energy of sqrt(s) = 7 TeV with data collected in 2010 by the LHCb experiment. The forward spectrometer allows access to a kinematic range of 2.0 < eta < 4.8 in pseudorapidity, momenta down to 2 GeV/c and transverse momenta down to 0.2 GeV/c. The results are presented as functions of pseudorapidity and transverse momentum and are compared to predictions from several Monte Carlo event generators.

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