

Forward physics at CMS

Studies of the forward processes are important tests of the standard model and inputs for Monte Carlo tuning. A measurement of the energy flow in the forward pseudorapidity region of CMS, $3.15 < |\eta| < 4.9$, is presented for 3 values of the centre-of-mass energy $\sqrt{s} = 0.9$ TeV, 2.36 TeV and 7 TeV. The forward energy flow is measured for Minimum Bias events and for events with a central dijet system whose transverse energy provides a hard scale. The energy flow is compared to various Monte Carlo models with different multiparton interaction schemes. A study of the forward jets in the pseudorapidity range $3.2 < |\eta| < 4.7$ is presented for $\sqrt{s} = 7$ TeV.

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