

XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Minimum bias and underlying event studies

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The majority of proton-proton collisions at the LHC contain only soft, low transverse-momentum scatters. Such scatters also occur between the remnants of the protons in conjunction with short-distance, high momentum scatters. Measurements of soft particle production and energy flow are presented for a wide range of different kinematic selections; correlations between the produced particles, and identified strange particles, are also studied. The energy flow and charged-particle distributions accompanying hard scatters are also measured. The measurements are compared to current Monte Carlo simulations and used to tune the parameters and suggest improved physics models.

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