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Measurements of the total cross section and the rho parameter using ATLAS

A measurement of the ratio of the real to imaginary elastic scattering amplitude at zero momentum transfer (the rho parameter), and the total proton-proton scattering cross section are presented at $\sqrt{s}=8$ TeV. The measurement is made using the differential elastic cross section as a function of the Mandelstam momentum transfer variable, which is reconstructed using the ALFA forward spectrometer in special runs with $\beta^*=1$ km optics.

Additional comments

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