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The TOTEM experiment measured the elastic, inelastic and total pp cross-section at $\sqrt{s} = 7$ TeV and 8 TeV. The elastic scattering was measured in a large range of $|t|$ allowing the determination of the pp cross-section, the discrimination among the elastic models and the study of the Coulomb-Nuclear interference $|t|$ -region. The measurement of the charged particle $dN/d\eta$ and the status of the analyses on soft single, double, and central diffractive interaction will be also reported.

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