

# Low-mass, single- and double diffraction dissociation at the LHC

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## Summary

Low missing mass, single and double diffraction dissociation (DD) is calculated for the LHC energies from a factorized dual-Regge model, with emphasis on the resonance structure in the missing mass channel. Detailed predictions for the missing mass ( $M$ ) and squared momentum transfer ( $t$ ) dependence of the differential cross sections for single and double diffraction dissociation as well as for the integrated cross sections are given. The model calculations are compared with the existing data, including those on elastic scattering measured by TOTEM. Various limits and ratios between single and double DD are presented.

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