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Production of $D^{*\pm}$ Mesons in Diffractive Interactions at HERA

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A study is presented of inclusive $D^{*\pm}$ meson production in diffractive interactions at HERA. Measurements are made both for deep-inelastic scattering with $Q^2 \geq 2$ GeV^2 and for photoproduction ($Q^2 < 0.01$ GeV^2). Approximately 20 pb^{-1} of data are used in the DIS analysis and 11 pb^{-1} for photoproduction. The results are compared with a model based on a partonic pomeron as determined in a QCD analysis of the diffractive structure function, with perturbative QCD calculations of two gluon exchange and with a soft colour interaction model.