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Exclusive diffractive resonance production in proton-proton collisions at the LHC

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A model for exclusive diffractive resonance production in proton-proton collisions at the LHC is presented. Cross sections are calculated by folding the Pomeron-Pomeron total cross section (σ_{PP}) with the Donnachie-Landshoff parameterisation of the Pomeron flux in the proton^(*). The single differential cross section $d\sigma/dM$ as well as the double differential cross section $d\sigma/dMdp_T$ will be shown for the resonances $f_0(980)$ and $f_2(1270)$. The range of x -values of the Pomeron flux accessible in these measurements will be addressed.

^{*}) R.Fiore, L.Jenkovszky, R.Schicker, Resonance production in Pomeron-Pomeron collisions at the LHC, Eur. Phys. J. C76 (2016) 1, 38

^{**}) A.Donnachie, P.V.Landshoff, Hard diffraction: Production of high p_T jets, W or Z, and Drell-Yan pairs, Nucl. Phys. B303 (1988), 634

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Classifica Sessioni: Diffraction in hadron-hadron collisions - experiment (I)

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