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[Cancelled] Single production of extra quarks with large width at the Large Hadron Collider

This paper explores the effects of both finite width and interference (with background) in the single production and decay of extra heavy quarks with charge $+2/3$ and $-1/3$ at the Large Hadron Collider (LHC). This dynamics is normally ignored in standard experimental searches and we assess herein the regions of validity of current approaches, using a model independent parametrization. We also evaluate the performances of an experimental analysis at 13 TeV for the determination of the excluded regions in the (M_Q, Γ_Q) plane, M_Q being the mass of the VLQ and Γ_Q its width.

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