



Contribution ID: 276

Type: **Poster Presentation**

Vector-like quark production at the LHC, beyond the Narrow Width Approximation

This paper explores effects of both finite width and interference (with background) in the production and decay of extra heavy quarks at the Large Hadron Collider (LHC). This dynamics is normally ignored in the standard experimental search and we assess herein the regions of validity of current approaches. Further, we discuss the configuration of masses, widths and couplings where the latter breaks down.

Experimental Collaboration

Primary authors: Prof. MORETTI, Stefano (University of Southampton); Mr O'BRIEN, Dermot (University of Southampton); Dr PANIZZI, Luca (University of Genova); Mr PRAGER, Hugo (University Of Southampton)

Presenters: Mr O'BRIEN, Dermot (University of Southampton); OBRIEN, dermot (University of Southampton)

Session Classification: Poster session

Track Classification: Higgs and New Physics