

Abstract

The existence of a fourth SM family leads to a large enhancement in the production cross section of Higgs boson at hadron colliders. The sensitivity of the Tevatron and the LHC to search for Higgs boson with the presence of fourth SM-like family is going to be reviewed.

Most of the results are from: Eur. Phys. J. C (2010) 66: [WINDOWS-1252?]119–126, ATLAS Scientific Note SN-ATLAS-2001-005 **and** Phys. Rev. D 76, 075016 (2007).