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Charming Yukawa coupling of the Higgs boson

Tuesday, 28 November 2023 11:00 (12 minutes)

An important approach to fully understanding the mechanism of fermion mass is the yet-to-observe Yukawa coupling of the Higgs boson to first-generation fermions and to second-generation quarks. Among the searches for these types of coupling, the Higgs boson decay to charm quarks is the most promising mode to investigate. This talk will focus on the latest results of the Higgs boson to charm decay analysis from the ATLAS collaboration, discuss the techniques used to identify charm objects and show the connection between the Higgs Yukawa coupling to the second- and third-generation quarks.

You are

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