

## Charming decay of the Higgs boson

*Friday, 3 November 2023 14:30 (20 minutes)*

An important approach to fully understanding the mechanism how particles acquire mass is the coupling between 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.

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