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Scrutinising the Higgs quartic coupling at a future 100 TeV proton-proton collider

Sunday 16 July 2023 11:00 (30 minutes)

The Higgs potential consists of an unexplored territory in which the electroweak symmetry breaking is triggered, and it is moreover directly related to the nature of the electroweak phase transition. Measuring the Higgs boson cubic and quartic couplings, or getting equivalently information on the exact shape of the Higgs potential, is therefore an essential task. We discuss options for related direct measurements at a future proton-proton collider operating at a centre-of-mass energy of 100 TeV, focusing on a final states with b-tagged jets and either tau leptons or photons.

Presenter: FUKS, Benjamin

Session Classification: Closing session