

Phenomenology 2022 Symposium: From Virtual to Real



Contribution ID: 136

Type: not specified

High precision Higgs physics at high energy muon colliders

Tuesday 10 May 2022 14:30 (15 minutes)

We present results for the achievable sensitivity to Higgs properties via single Higgs production at future muon colliders. All relevant decay channels for on-shell Higgs production are analysed including physics backgrounds using fast simulation for a comprehensive picture of the expected precision. We additionally show results where we include some effects of the muon collider specific Beam Induced Background motivated by full simulation studies.

Author: FORSLUND, Matthew (Stony Brook University)

Co-author: MEADE, Patrick

Presenter: FORSLUND, Matthew (Stony Brook University)

Session Classification: Higgs II