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Precision Higgs Physics at High-Energy Muon Colliders

Tuesday 19 October 2021 14:30 (10 minutes)

A high energy muon collider is an exciting option for exploring the energy frontier beyond the LHC. In addition to having a powerful energy reach, I will discuss how a multi-TeV muon collider also acts as a “vector-boson collider”, allowing for large rates of electroweak processes that can be leveraged for precision measurements of the Higgs sector, via both on- and off-shell measurements. I will also discuss how precision measurements of the Higgs at a muon collider can be used as a unique probe of beyond the Standard Model physics, with measurements complementary to other precision experimental programs.

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