

# PARTICLEFACE 2021: Unraveling New Physics Workshop & Management Committee Meeting



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## Vector Boson Scattering at Muon Colliders

*Friday, 16 July 2021 10:00 (30 minutes)*

Starting from collider energies of a few TeV, electroweak vector boson fusion/scattering becomes the dominant production mode at lepton colliders for Standard Model and new physics processes that are relevant to studying the EW sector. In this regime, a muon collider would effectively act as a “high-luminosity weak boson collider,” offering a wide range of opportunities to precisely measure electroweak and Higgs couplings as well as discover new particles. We present recent Monte Carlo developments in the context of the Mad-Graph5\\_aMC@NLO platform that allow for the precise exploration of arbitrary Standard Model and new physics processes.

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