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Theoretical Inputs for Vector-Boson Scattering Measurements at the LHC

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Vector-boson scattering (VBS) is a key process for probing the mechanism of electroweak symmetry breaking at the LHC. Precise measurements of VBS offer stringent tests of perturbative unitarity, enable the extraction of longitudinal gauge-boson polarisation components, and provide sensitivity to scenarios beyond the Standard Model. This presentation outlines the theoretical inputs required to fully exploit current and future VBS measurements. In particular, I will highlight the intricate interplay between theory and experiment in interpreting these measurements and maximizing their discovery potential.

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