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Importance of fermion loops in Vector Boson Scattering

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We test the assumption that fermion-loop corrections to high energy $W+W^-$ scattering are negligible when compared to the boson-loop ones. Indeed, we find that, if the couplings of the interactions deviate from their Standard Model values, fermion-loop corrections can in fact become as important or even greater than boson-loop corrections for some particular regions of the parameter space, and both types of loops should be taken into account.

Time Zone

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