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The MHV-Lagrangian for electroweak gauge bosons

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Theoretical predictions at the LHC for processes involving many partons, for example the determination of the Higgs mass as well as possible signals of "New Physics", make the precise knowledge of scattering amplitudes necessary. The number of Feynman diagrams to calculate grows factorially with the number of external legs. Therefore, efficient techniques reducing the computing time are needed. Amongst these MHV amplitudes are a popular tool providing a neat way for the fast calculation of scattering amplitudes at tree level. Originally, the MHV amplitude was discovered during the study of pure Yang-Mills theory. The purpose of this talk is to show how to extend their usefulness towards the electroweak gauge boson sector

Summary

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Clasificación de la sesión : ESRs Session