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LHC phenomenology at next-to-leading order QCD: theoretical progress and new results

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In this talk I will motivate that a successful description of LHC physics needs the inclusion of higher order corrections for all kinds of signal and background processes. In the case of multi-particle production the combinatorial complexity of standard approaches triggered many new developments which allow for the efficient evaluation of one-loop amplitudes for LHC phenomenology. I will discuss the basic new ideas for one-loop multi-leg computations including comments on computational issues and will review recent results relevant for LHC phenomenology.

Author: Dr BINOTH, Thomas (University of Edinburgh)

Presenter: Dr BINOTH, Thomas (University of Edinburgh)

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