Particle Theory Seminar

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ETH

"Multi-leg one-loop amplitudes with D-dimensional unitarity cuts"

Thursday, February 05, 2009, 11:30 pm

OFLA/002

Abstract:

D-dimensional unitarity cuts have emerged recently as a very promising alternative to the still prevailing traditional reduction methods for the calculation of the virtual part of NLO QCD amplitudes with many external legs. I will review the method and discuss issues of efficiency and accuracy in the case of multi-gluon amplitudes as well as its potential for fully automating virtual NLO QCD calculations.