One loop more: 4 and 5 loop physics

Wednesday 7 September 2016 11:00 (30 minutes)

For many processes at the LHC, there is an ever growing need for precision predictions. To this end, we created Forcer, a program that computes 4-loop massless propagator diagrams. Forcer solves IBP identities parametrically, which allows us to calculate processes beyond the reach of Laporta methods. We will show some recent results for 4-loop splitting functions. Finally, we will show a method to extend our program to include certain 5-loop calculations.

Summary

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