

LoopScalla: A new multiloop setup

Tuesday, July 22, 2025 2:40 PM (20 minutes)

We report on a new framework for multiloop calculations that makes use of FORM and Mathematica. While FORM is employed for computationally heavy tasks such as amplitude evaluation or insertion of reduction tables, less performance-critical such as topology identification and minimization are done with FeynCalc. The interfaces to IBP-Reduction tools such as FIRE or KIRA are handled via the FeynHelpers add-on. The setup is fully open-source, designed to be extendable and is optimized for running jobs on a computer cluster administered via SLURM.

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Session Classification: Young Scientists Talks: Session 4