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## (S)ARGES – Advanced Renormalisation Group Equation Simplifier

Thursday, 26 August 2021 14:10 (20 minutes)

We present ARGES, a toolkit for obtaining renormalisation group equations in perturbation theory, as well as SARGES, its supersymmetric counterpart.

The programs can handle any perturbatively renormalisable four-dimensional quantum field theory, and have pioneered the approach of performing a symbolic rather than numeric computation. We highlight further notable features, such as input of unconventional scalar and Yukawa sectors, an interactive evaluation and disentanglement as well as capabilities to inject algebraic simplification rules.

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