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One-loop Feynman integrals made easy with Package-X

Tuesday, 5 May 2015 18:15 (15 minutes)

Package-X is a Mathematica package designed to analytically compute dimensionally regulated one-loop Feynman integrals. UV-divergent, IR-divergent and finite parts are all obtained analytically for any combination of external invariants or internal masses. In this talk, Package-X will be showcased with a series of illustrative applications highlighting its ease of use.

Technical details are given in arXiv:1503.01469,

Package files are available at <http://packagex.hepforge.org>.

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