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LoopIn: a code for automating scattering amplitudes calculations

We present “LoopIn”, a framework aimed at automating calculations of multi-loop scattering amplitudes for pQFT. It has been designed to have only few user input (process, number of loop, ps-points), from which it can provide numerical values for interference terms, helicity amplitudes or form factors.

“LoopIn” implements a modular structure, for which public codes can be interfaced as modules, for performing individual calculation procedures. It also relies on additional built-in methods to provide the minimal calculation setup and trivial parallelization.

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