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Numerical calculations of Multiple Polylog functions

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Multiple Polylog functions (MPL) often appear as a result of the Feynman parameter integrals in higher order correction in quantum field theory. Numerical evaluation of the MPL with higher depth and weight is necessary for multi-loop calculations. We propose a purely numerical method to evaluate MPL using numerical contour integral in multi-parameter complex-plane. We can obtain values of MPL for any complex variables.

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