## Analytic results for massive three-loop form factors

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We present our recent progress in the calculation of massive three-loop form factors in the non-singlet case, using the method of large moments and differential equations derived from them. The expansion coefficients of the solutions to these differential equations correspond to the series of rational numbers multiplying each of the constants appearing in the form factors at different kinematic points. These coefficients are thus computed with very large precision, which allows us to use the PSLQ algorithm to obtain all of them in terms of known constants in the low energy limit, and in terms of a few new additional constants at threshold. We discuss the computer algebra techniques used in our calculations and compare with numerical results in the literature.

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