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The singular behavior of one-loop massive QCD amplitudes with one external soft gluon

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I report on the calculation of the one-loop correction to the soft-gluon current with massive fermions. This current is process independent and controls the singular behavior of one-loop massive QCD amplitudes in the limit when one external gluon becomes soft. It therefore constitutes a necessary ingredient for the numerical evaluation of observables with massive fermions at hadron colliders to next-to-next-to-leading order.

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