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The problem of overlapping formation times: IR single-logs

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Soft radiative corrections to in-medium g->gg splitting processes have been known to produce double-logarithmic enhancement of the splitting rate. In our previous work on corrections to the leading order LPM effect, we have shown that this double-log enhancement is accompanied by a sub-leading single log behavior. It has been shown by previous authors that these double log enhancements can be absorbed into a running of the medium parameter q-hat. However, less has been known about the sub-leading single logarithmic IR behavior. In the present work, we present analytic results for these single logs and discuss their origin.

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