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Resummmation Beyond Next-to-leading Logarithms at Subleading Power in $h \to \gamma\gamma$ Decay

Thursday, 21 April 2022 12:00 (20 minutes)

Based on our previous series of work, we present the full resummation at RG-improved leading order for $h \to \gamma\gamma$ decay amplitudes induced by light quarks. We analytically show that endpoint divergences cancel in the plus-type subtraction scheme after scale evolution and use a slicing method to do the numerical evaluation. We find logarithms beyond NLL are significant.

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