Higher-order corrections for the three-jet rate in electron-positron annihilation using the (anti)-kt algorithm

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We present our next-to-next-to-leading order result performed in the CoLoRFulNNLO subtraction scheme for the three jet rate in electron-positron annihilation into three jets using the exclusive kt clustering algorithm. Results matched with next-to-double logarithmic resummation are also shown compared to OPAL data. In addition we present our predictions using the anti-kt algorithm at next-to-next-to-leading order in perturbation theory matched with next-to-double logarithmic resummed prediction for the first time.

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