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Higher-order ISR corrections to electron-positron annihilation processes

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Radiative corrections due to initial state radiation in electron-positron annihilation are calculated within the QED structure function approach. Results are shown in the next-to-leading logarithmic approximation up to O(alphaˆ4Lˆ3) order, where L=ln(s/mˆ2_e) is the large logarithm. Dependence on factorization scale and scheme choices is analyzed. The results are relevant for future high-precision experiments at e+e− colliders.

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