

## Single inclusive hadron production in $e^+e^-$ annihilation at N3LO in QCD

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Single-inclusive hadron production in electron-positron annihilation (SIA) represents the cleanest process for investigating the dynamics of parton hadronization, as encapsulated in parton fragmentation functions. In this talk, I will present the analytical computation of QCD corrections to the coefficient functions for SIA at next-to-next-to-next-to-leading order (N3LO) accuracy based on arXiv:2503.20441.

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