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## Numerical estimation of radiative corrections to $e^+e^-$ -annihilation processes

Thursday 31 October 2024 13:00 (15 minutes)

The processes of electron-positron annihilation into a virtual photon or a Z-boson is considered. QED radiative corrections due to the initial state radiation in these processes are estimated up to the  $\mathcal{O}(\alpha^5)$  order within the leading and next-to-leading logarithmic approximations. The results are relevant for verification of the Standard Model and searches for new physical phenomena at future high-luminosity electron-positron colliders such as the FCC-ee (CERN) and CEPC (China).

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