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Towards transverse-momentum-dependent splitting functions in k_T -factorization

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In this talk we review the project aiming and computing transverse-momentum-dependent splitting functions featuring correct collinear and high-energy limit that we started in refs. [arXiv:1711.04587, arXiv:1607.01507, arXiv:1511.08439]. At the moment we have obtained the real-emission parts of all the kernels (P_{gg} , P_{gq} , P_{qq} and P_{qq}) at LO. After introducing the methods used for defining and computing the real corrections we concentrate on the current effort aiming at calculating the virtual corrections and we present its current status.

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