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Jet quenching in a Wilson lines formalism

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We investigate the use of the Wilson lines approach in the analysis of the transverse-momentum broadening probability function, the first moment of which is associated with the jet quenching parameter. Starting from the Euclidean space formulation and then transforming the result to the Minkowski light-cone geometry, we discuss the issues of the UV, rapidity and IR singularities, and possible applications of the proposed approach in lattice simulations.

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