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Anisotropic jet momentum broadening from effective kinetic theory

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We study jet momentum broadening in heavy-ion collisions at anisotropic initial stages with focus on the jet quenching parameter \hat{q} , which we extract using effective kinetic theory. We obtain its non-equilibrium properties during the bottom-up thermalization scenario in a Bjorken-expanding plasma with non-thermal anisotropic initial conditions.

By studying the time-dependence of the momentum broadening we find that \hat{q} along the beam axis is suppressed compared to the transverse plane during the overoccupied phase, and enhanced during the underoccupied phase.

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