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Charm diffusion coefficient from nonzero momentum Euclidean correlator in temporal channel

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We study a charm quark diffusion coefficient with nonzero momentum correlator on the quenched lattice. Starting from rather general requirements on the spectral function, we derive inequalities to constrain the value of the diffusion coefficient. These inequalities have quantities which can be measured on the lattice from temporal correlator with nonzero momentum. Using the inequalities and the numerical simulation on the lattice, we constrain the value of the diffusion coefficient for $1.5 < T/T_c < 4.5$.

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