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Glasma calculation of energy-momentum tensor correlations at early times

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We provide an analytical calculation of the covariance of the energy-momentum tensor of the glasma in heavy ion collisions at $\tau=0^+$. This is done in the McLerran-Venugopalan model. We then implement its proper time evolution, providing the initial conditions for the subsequent hydrodynamical evolution of the system. Quantities such as the initial viscosity of the Quark Gluon Plasma can also be computed. Incidentally, as part of our calculations we obtain interesting results such as the correlator of four Wilson lines in the adjoint representation, which we derive for the first time in the most general case.

Content type

Theory

Collaboration

Centralised submission by Collaboration

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