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Autocorrelations of the Glasma energy-momentum tensor

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I shall present an analytical calculation of the two-point correlator of the energy-momentum tensor associated to the early stages of the matter produced in heavy ion collisions, $\langle T^{\mu\nu}(x)T^{\mu\nu}(y)\rangle$. Our calculation is performed under the classical approximation of the Color Glass Condensate and provides additional dynamical information on the early times ($\tau = 0^+$) of the out-of equilibrium Glasma phase of these collisions. I shall discuss the large-N limit of our results as well as their possible use as initial conditions for further hydrodynamical evolution or their use for the calculation of transport coefficients. 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.

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