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Non-equilibrium evolution of slow-mode correlation and spectral functions near the QCD critical point

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We investigate the non-equilibrium effects on the structure of the correlation and spectral functions of the slow modes as the collision system evolves through the vicinity of the QCD critical point, within the time-dependent Ginzburg-Landau approximation. We model the time-evolution equation for the slow modes, by allowing the coefficients to be time-dependent. Within this framework, we study a competition between the diverging fluctuation and critical slowing in the critical region.

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