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Understanding the dynamics of field theories far from equilibrium

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In recent years, there have been important advances in understanding the far-from-equilibrium dynamics in gauge and scalar field theories. For non-Abelian gauge systems, the combination of different methods led to the development of a consistent weak-coupling thermalization picture in ultrarelativistic heavy-ion collisions, from the initial Glasma state to the onset of hydrodynamics, and the quantitative details of the evolution are currently being studied. In this talk, I will review recent progress in the understanding of the early-time evolution of non-Abelian plasmas, and also its connection with scalar field theories.

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