Contribution ID: **78** Type: **talk**

Strongly interacting matter in extreme conditions: insights from hydrodynamic modeling of heavy ion collisions

Wednesday, 28 June 2017 09:00 (40 minutes)

I the first part of the talk I will review several physics features of strongly interacting matter (such as, for example, equation of state and kinetic coefficients) that have been established by comparing heavy-ion data with hydrodynamic models. Then I will turn to the general problems of applicability of relativistic viscous hydrodynamics, in particular, for description of the early stages of heavy-ion collisions. Finally, I will turn to observables connected with polarization of the observed particles and comment on recent developments of relativistic fluid hydrodynamics with spin.

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