

Fluidity measure from effective field theory

We consider an effective field theory description of quasi-particle excitations aiming to associate the transport properties of the system with the spectral density of states. Tuning various properties of the many-particle correlations, we investigate how robust microscopic features are translated into the macroscopic observables like shear viscosity and entropy density. The liquid-gas crossover is discussed using several examples. We sketch the adaptability of the present examination to much more intricate questions, like transport in (continuum extrapolated) lattice QCD or in correlated solid state systems with condensate.

Collaboration

Primary author(s) : Mr HORVÁTH, Miklós

Co-author(s) : JAKOVAC, Antal (Eotvos University Budapest)

Presenter(s) : Mr HORVÁTH, Miklós

Session Classification : Poster