

Università degli Studi di Trieste

Dipartimento di Fisica

Seminario

Giorgio Torrieri

Departamento de Raios Cosmicos e Cronologia, Instituto de Fisica Gleb Wataghin (DRCC, IFGW),
Campinas, Brazil

Tuesday, March 27, 2.00 PM – Lecture Room A, F building, Dip. di Fisica – via Valerio 2 – Trieste

The ideal relativistic fluid limit for a medium with polarization.



We use Lagrangian effective field theory techniques to construct the equations of motion for an ideal relativistic fluid whose constituent degrees of freedom have microscopic polarization. We show that this system will generally require non-dissipative dynamics at higher order in gradient than second order, leading to potential stability issues known with such systems. We comment on the significance of this in the light of conjectured lower limits on viscosity.

Organizzazione a cura di: E. Fragiaco, S. Piano, E. Vesselli

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Everyone interested in the topic is welcome to attend

Informazioni: seminari@ts.infn.it