

SECOND ORDER HYDRODYNAMIC COEFFICIENTS FROM KINETIC THEORY*

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In a relativistic setting, hydrodynamic calculations which include shear viscosity (which is first order in an expansion in gradients of flow velocity) are unstable and acausal unless they also include second order terms. The computation of these coefficients through the use of relativistic kinetic theory will be the focus of this talk. Moreover, the validity of such a method, and the results obtained for weakly coupled QCD will also be discussed.

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