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Conformal viscous hydrodynamics and finite temperature gauge/gravity duality

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Relativistic second-order viscous hydrodynamics at finite temperature is discussed. Using the Weyl-covariant formalism the constraints by conformal invariance are derived. The transport coefficients, e.g. shear viscosity etc., as a function of temperature are obtained from the strongly coupled N=4 SUSY theory applying the AdS/CFT correspondence. Recent results from a comparison with RHIC experimental data are quoted.

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