

The Hebrew University of Jerusalem , Joint High Energy Physics Seminar

Dr. Bom Soo Kim

Tel-Aviv University

The White Dove Conference Hall at Nave-Shalom (Wahat al-Salam)

"Hydrodynamics for Quantum Critical Theories"

We formulate a universal hydrodynamic description for theories without boost invariance, a non-trivial extension of Landau and Lifshitz. New transport coefficients, one in neutral and two more in charged fluids, are uncovered. While the description is applicable for the Lorentz (or Galilean) invariant theories with broken boost invariance, we focus on its application to Quantum Critical theories with Lifshitz scaling symmetry.

Additional details of the upcoming joint High Energy Physics' seminars can be found on the following link - [Joint High Energy Physics Seminars](#)