

Speaker: Jyotirmoy Bhattacharya (Durham)

Title: Surface transport properties in stationary relativistic fluids.

Abstract: In this talk, we will discuss the surface transport properties of stationary localized configurations of relativistic fluids to the first two non-trivial orders in a derivative expansion. We shall analyse the finite lumps of relativistic fluid through a thermal partition function, with arbitrary stationary background metric and gauge fields. This will lead us to several interesting constraints among surface transport coefficients, which we will explain in detail. Finally, we will report on some latest results, from our ongoing work about surface properties of fluids with an underlying anomalous symmetry.