SEMPARIS – Séminaires en région parisienne

http ://string.lpthe.jussieu.fr/semparis/

Seminar of the Gravity and cosmology group of IJCLAB

Jeudi 17 Mai 2018, 14 :00
LPT, 110
Domaines : hep-th

Titre : *Carrollian fluids and holographic applications*

Orateur : **Marios Petropoulos (CPHT, Ecole Polytechnique)**

Résumé : *General-covariant Galilean or Carrollian hydrodynamics can be reached starting with relativistic fluids observed from either Zermelo or Randers-Papapetrou frames, at infinite or vanishing velocity of light. I will focus on the latter case, display the general equations and describe the paramount role of Carrollian fluids in flat holography : duals of Ricci-flat spacetimes in the sense of fluid/gravity correspondence are Carrollian fluids defined at null infinity. The reconstruction of asymptotically flat Robinson-Trautman or Kerr-Taub-NUT families from Carrollian hydrodynamics illustrate these results.*