

SEMINARIO
Departamentos de Física Teórica I y II
Universidad Complutense de Madrid

CONFERENCIANTE: Juan Torres-Rincon

Institut de Ciències de l'Espai (CSIC-IEEC)
Universitat Autònoma de Barcelona

TITULO: Kinetic theory of chiral relativistic plasmas

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM

DÍA: 14 de enero, 2014 (Martes)

HORA: 14:30

AULA: Seminario Depto. Física Teórica I, Planta 3ª

ABSTRACT

I will present the recent advances in the kinetic theory description of the dynamics of relativistic plasmas with massless fermions.

I will describe the semiclassical transport equations used to extract the collective response of a QED chiral plasma in the limit of high temperature. This method is able to reproduce the known results of the hard-thermal-loop action, plus the anomalous sector of the effective theory when effects of the Berry curvature are consistently introduced.