

Avviso Di Seminario

09-04-2015, 15:00 - Sala Riunioni

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Terra' un seminario dal titolo:

"TIME DEPENDENCE OF THE CHIRAL VORTICAL EFFECT AND ITS IMPLICATIONS FOR THE QUARK GLUON PLASMA"

Abstract:

The last years reappeared an increasing interest on quantum anomalies due to the discovery of a new set of conductivities which are directly related to the presence of triangle anomalies. These conductivities could lead to the observation in the lab of the so called Chiral Magnetic, Separation and Vortical effects. The understanding of these effects is of interest for theoretical reasons and also to explain (maybe) the data coming from Heavy Ion Colliders as RHIC and LHC.

This program has produced a better understanding of relativistic hydrodynamics, and the effect of the quantum anomalies of the underline QFT, can imply on it. In this seminar I will focus mainly in the frequency dependence of the chiral vortical conductivities for free fermions and for a strongly coupled theory in the context of holography.

Il Direttore

Pasquale Lubrano