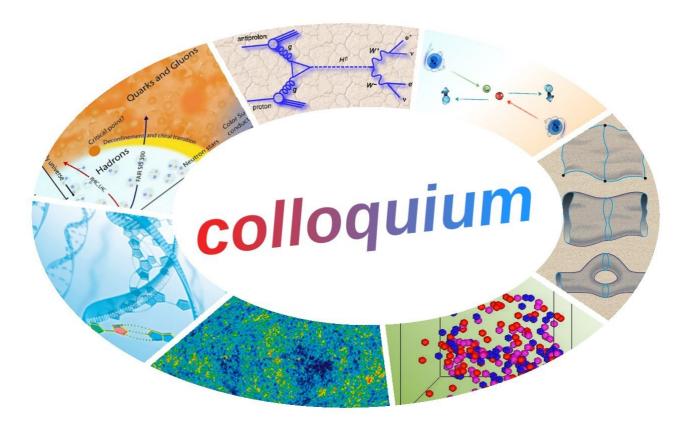
Università di Torino – Dipartimento di Fisica

Sezione di Fisica Teorica



Venerdi 27 Marzo 2015, ore 14:30, Aula Wataghin

Wojciech Florkowski

(Institute of Nuclear Physics - Krakow)

How well can we describe properties of the Quark-Gluon Plasma?

In the first part of the colloquium I will present two concepts of the quark-gluon plasma: first as an asymptotic state of strong interactions (achieved at extreme temperatures and/or densities), second as a new state of matter established experimentally in heavy-ion collisions. Then, I will turn to the discussion of relativistic hydrodynamics and its role in the determination of properties of that new phase. Finally, I will present recent developments of dissipative relativistic hydrodynamics, comparing various computational schemes with the predictions of the underlying kinetic theory.