



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

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***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.