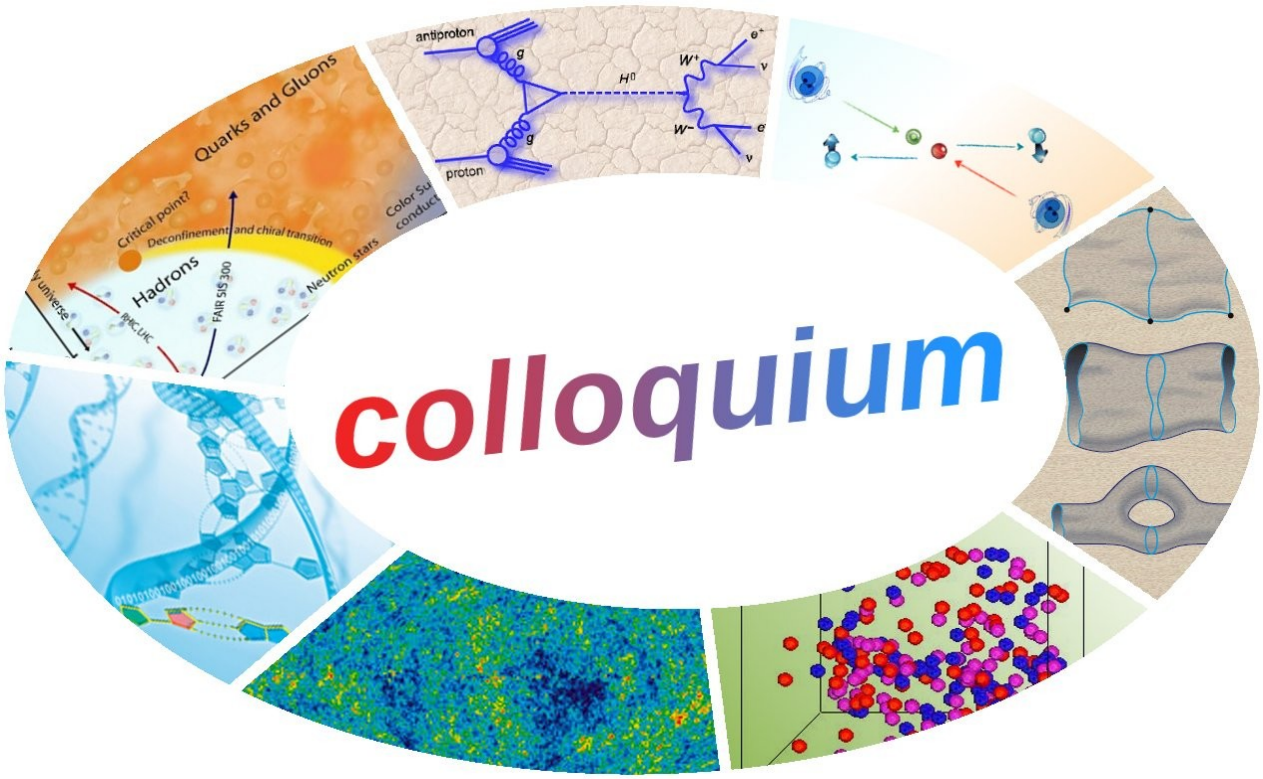
Università di Torino – Dipartimento di Fisica

Sezione di Fisica Teorica



Giovedì 14 Gennaio 2016, ore 14:30, Aula Magna
(Istituto di Fisica, Via Pietro Giuria 1)

Prof. Urs. Wiedemann
(CERN)

Learning from the Big Bang about little bangs and vice-versa

While the physics underlying cosmology and heavy-ion collisions is very different, of course, the theoretical challenges for understanding the dynamics of both systems show remarkable commonalities. In this colloquium, I explain on the one hand how the modern description of the expansion dynamics of heavy-ion collisions parallels developments in cosmology. On the other hand, I discuss examples for how concepts widely used in heavy-ion phenomenology may be employed to shed light on two central topics in cosmology, namely large-scale structure formation and the nature of dark matter.