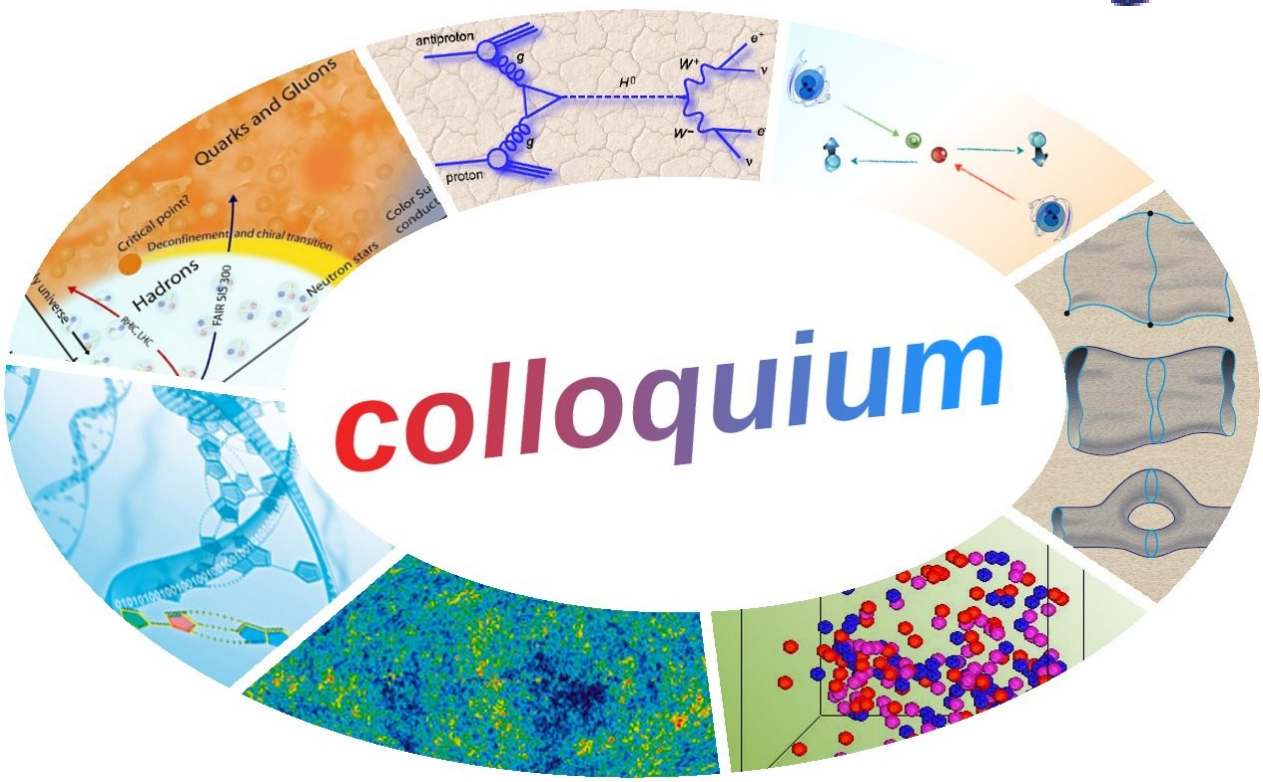
Dipartimento di Fisica e Sezione INFN di Torino



Venerdì 12 Febbraio 2016, ore 14:30, Aula Wataghin

Gennaro Corcella
(INFN - LNF)

The top-quark mass: interpretation of the measurements and theoretical uncertainties

The top-quark mass is a fundamental parameter of the Standard Model, which, together with the mass of the W boson, constrained the Higgs-boson mass even before its discovery. The talk will discuss the interpretation of the top-quark mass measurements at the LHC: in particular, the relation between the reconstructed mass, relying on analyses based on Monte Carlo event generators, and theoretical definitions, such as the pole mass, will be investigated. More generally, the sources of theoretical uncertainties will be reviewed, taking particular care about the impact of the hadronization of bottom quarks in top decays.