

Joint seminar of the NPI of the CAS

13. 3. 2025

Doc. Michal Šumbera, CSc., DSc. (OFTI, ÚJF):
Cosmology from Strong Interactions

Abstract:

The wealth of theoretical and phenomenological information about Quantum Chromodynamics – the fundamental theory of strong interactions at short and long distances collected so far in major collider measurements has profound implications in cosmology. I will briefly discuss the major impact of the strongly coupled dynamics of quarks and gluons and the effects due to their collective motion on the physics of the early universe and in astrophysics.