

Phase diagram of nuclear matter. Collective effects and phase transitions in nuclear systems.

Tuesday 24 June 2025 09:00 (30 minutes)

In this talk I will review phase diagram of nuclear matter. Different temperature–density regimes will be discussed: low temperature–low density, low temperature–high density, high temperature–low density, and high temperature–high density. Focus will be made on role of collective medium effects and possibilities of various phase transitions. Information from experiments and theoretical models used for description of heavy-ion collisions, neutron stars, hypothetical hybrid and quark stars, etc. will be discussed.

Author: Prof. VOSKRESENSKY, Dmitry (BLTP, JINR Dubna)

Presenter: Prof. VOSKRESENSKY, Dmitry (BLTP, JINR Dubna)

Session Classification: Tuesday