

FREEZE-OUT PROPERTIES OF HOT NUCLEAR MATTER CREATED IN HEAVY ION COLLISIONS

S. Shlomo

The study of properties of nuclei under extreme conditions of temperature and density has been the subject of many investigations in recent decades, since they are very important in the study of the process of supernovae, neutron stars and nuclei. Heavy-ion collision experiments are often employed to determine these properties. We present a short and limited review of the theoretical and experimental status of determining the temperature and density of the disassembling hot nucleus from ratios of the yields of emitted fragments.

Keywords: hot nuclei, nuclear fragmentation, phase transition.