

Types of Mixed Nuclear Matter

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Classification is given of different types of mixed nuclear matter containing hadron and quark degrees of freedom, including the following types: (i) Nuclear matter with admixture of multi-quark clusters, (ii) Stratified quark-hadron mixture, (iii) Stratified hadron-hadron mixture, (iv) Multicomponent quark-hadron matter, (v) Heterophase quark-hadron matter. Methods of describing these systems are discussed. For correct analysis of experiments with nuclei and heavy-ion collisions, it is necessary to understand what kind of state has been formed in a fireball, that is which of the above phases are the most stable.

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