
2006年度冬学期 第1回 物性セミナー

“Superfluid ^3He and cosmology”

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日時 2006年10月6日(金) 午後4時30分～

場所 16号館 827

These lectures will review symmetry-breaking phase transitions in the special case of the breaking of combined symmetries and the subsequent formation of different states with different ordering. The two most interesting systems with these features are the Universe and superfluid ^3He . In both cases the energy potential below the transition temperature has a complicated multidimensional profile with many local minima and saddle points, which correspond to different states. Consequently, not only topological defects, but also islands of different metastable states can be created. Using ^3He we can analyze the properties and experimental consequences of such transitions and, in particular, the first order phase transition between the two low symmetry states.

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