

KINETIC DESCRIPTION OF THE ISOVECTOR DIPOLE EXCITATIONS IN HOT NUCLEI

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Semiclassical model based on the solution of the Vlasov kinetic equation for finite Fermi-systems with a moving surface is generalized for the description of the collective excitations of hot nuclei. The temperature effects are taken into account in the collision integral in the relaxation time approximation and in the equilibrium distribution function. It is found that the width of giant dipole resonance increases when the temperature grows in the approximation of rare collisions between nucleons. It is shown that the increase of the width is mainly due to the temperature dependence of the collision term.