

ISOSCALAR QUADRUPOLE OSCILLATIONS OF EXCITED NUCLEI

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The behavior of the quadrupole collective strength function of excited (hot) nuclei is considered within a kinetic model based on the solution of the Vlasov kinetic equation with moving surface boundary conditions. The temperature effects are taken into account in the collision integral in the relaxation time approximation. It is found that the collectivity of the giant quadrupole resonance and the low-lying quadrupole mode is decreased with increasing of the temperature.