## V. A. Plujko, O. M. Gorbachenko, E. P. Rovenskykh, V. O. Zheltonozhskii

## E1 GAMMA-TRANSITIONS IN HOT ATOMIC NUCLEI

New version of the modified Lorentzian approach for radiative strength function is proposed. Renewed systematics for giant dipole resonance (GDR) parameters is given. The gamma-decay strength functions are calculated using renewed GDR parameters and compared with experimental data. It is demonstrated that closed-form approaches with asymmetric shape of the gamma strength, as a rule, provide the reliable simple method for description of gamma-decay processes.

Keywords: gamma transitions, radiative strength function, the giant dipole resonance.