

CALCULATION OF THE EFFECT VIBRATIONAL
STATES ON NUCLEAR LEVEL DENSITIES
WITHIN THE RESPONSE FUNCTION METHOD

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S u m m a r y

The response function approach is proposed to include vibrational states in the calculations of the nuclear level density. The effect of damping of vibrational states on nuclear level densities is investigated. The calculations showed a rather strong dependence of the nuclear level density on collective state relaxation times.