

ELECTRICAL DIPOLE AND QUADRUPOLE
TRANSITIONS IN EVEN-EVEN NUCLEI
WITH QUADRUPOLE AND OCTUPOLE
DEFORMATIONS

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S u m m a r y

Simple analytical expressions for the reduced probabilities of $E1$ - and $E2$ -transitions of deformable even-even nuclei with quadrupole and octupole deformations are obtained. The ratios of the reduced probabilities of $E1$ - and $E2$ -transitions for ^{104}Ru , ^{166}Er , ^{226}Ra , ^{238}U nuclei are calculated, and they are in satisfactory agreement with experimental data even for high spin-states.