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E2/M1 Multipole Mixing Ratios of Transitions in Erbium Isotopes

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Abstract: Erbium isotopes ($Z = 64$) lie in the transitional region that occurs at the middle of the range of deformed nuclei. γ -ray E2/M1 mixing ratios for selected transitions in $^{166-168}\text{Er}$ are calculated in the proton-neutron interacting boson approximation (IBA-2). The results obtained for $^{166-168}\text{Er}$ are reasonably in good agreement with the previous experimental and teoretical values.

 [Keywords](#)
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Key Words: IBA-2, Deformation parameter, Quadrupol moment, Mixing ratios



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