## Reduced E2-Transition Probabilities in Excited Collective States of Triaxial Even-Even Nuclei

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An intra-/inter-band reduced *E*2-transition probabilities in the excited states of lanthanide and actinide even-even nuclei has been considered within a free triaxiality approximation. They are studied in detail in the spectra of nuclei: <sup>154</sup>Sm, <sup>156</sup>Gd, <sup>158</sup>Dy, <sup>162,164</sup>Er, <sup>230,232</sup>Th, <sup>232,234,236,238</sup>U. Comparison of the calculation results with the corresponding experimental data shows a very good agreement, including high angular momentum states. A comparison of the ratios reduced *E*2- transition probabilities with results of Alaga rules are pointed out. These comparisons allows to determine a sensitivity of *E*2-transition probabilities to surface multipole deformations.