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B(E2) predictions within the proxy-SU(3) symmetry

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The proxy-SU(3)symmetry is an extension of the Elliott SU(3), applicable in medium mass and heavy nuclei. It has been successfully used in the prediction of: a) the dominance of the prolate over the oblate nuclear shape, b) the prolate-oblate shape transition and c) the islands of shape coexistence on the nuclear chart. The quadrupole electric transition probabilities among isomeric, positive parity states shall be presented within the proxy-SU(3) symmetry.

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