

## Parameter free predictions within the proxy-SU(3) model

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### Abstract

Using a new approximate analytic parameter-free proxy-SU(3) scheme, we make predictions of shape observables for deformed nuclei, namely  $\beta$  and  $\gamma$  deformation variables, and compare these with empirical data and with predictions by relativistic and non-relativistic mean-field theories.

### References

- [1] D. Bonatsos, I. E. Assimakis, N. Minkov, A. Martinou, S. Sarantopoulou, R. B. Cakirli, R. F. Casten, and K. Blaum, *Phys. Rev. C* **95** (2017) 064326.