

Abstract Submitted  
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**The effect of deformation on nuclear level density** GABRIELA POPA, FRAZIER BAKER, Ohio University Zanesville — A study of the systematic behavior of nuclear level density for  $20 < A < 70$  has been performed. A code was developed to download the data from the nuclear data base and extract the energy levels together with their spin and parity assignments. The numbers of states per energy level were calculated under both assumptions of spherical and deformed nuclei. The density of states is calculated and plotted for comparison under both scenarios.

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