

0+ excited states in nuclei: critical signatures of structure

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All even-even nuclei possess excited 0+ states. Often, they are poorly characterized because they can be difficult to populate. However, the identification of 0+ states and the characterization of their properties is critical to the elucidation of the structure of all even-even nuclei. Examples at both closed and open shells will be selected to illustrate this aspect of nuclear structure exploration. Particular emphasis will be placed on nuclei with seniority dominated structure and nuclei exhibiting shape coexistence.

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