

Publication

Anomaly in  $O(6)$   $\gamma$  in Pt

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A strong  $E0$  transition linking the first and second excited  $0^+$  states in Pt-196 has been found using the  $(n, e^-)$  reaction. This transition is forbidden in the  $O(6)$  limit of the IBM, yet is over 20 times stronger than an allowed  $E0$  transition depopulating the same level. This clean test of the wavefunctions of these  $0^+$  states indicates that one or both do not fall within an  $O(6)$  description.

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