

SMOOTH TERMINATION OF ROTATIONAL BANDS IN ^{62}Zn : EVIDENCE FOR A LOSS OF COLLECTIVITY¹

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Two sets of strongly-coupled rotational bands have been identified in ^{62}Zn . These bands have been observed up to the terminating states of their respective configurations. Lifetime measurements indicate that the transition quadrupole moments in these bands decrease as termination is approached. These results establish the first terminating states of rotational bands in the $A \sim 60$ mass region and confirm the predicted loss of collectivity associated with smooth band termination.

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