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Anomaly in $O(6)$ γ in Pt

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Author(s) HARDER, MK; KRUSCHE, B

Author(s) at UniBasel [Krusche, Bernd](#) ;

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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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