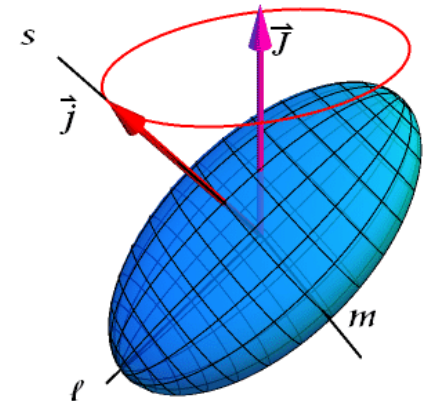
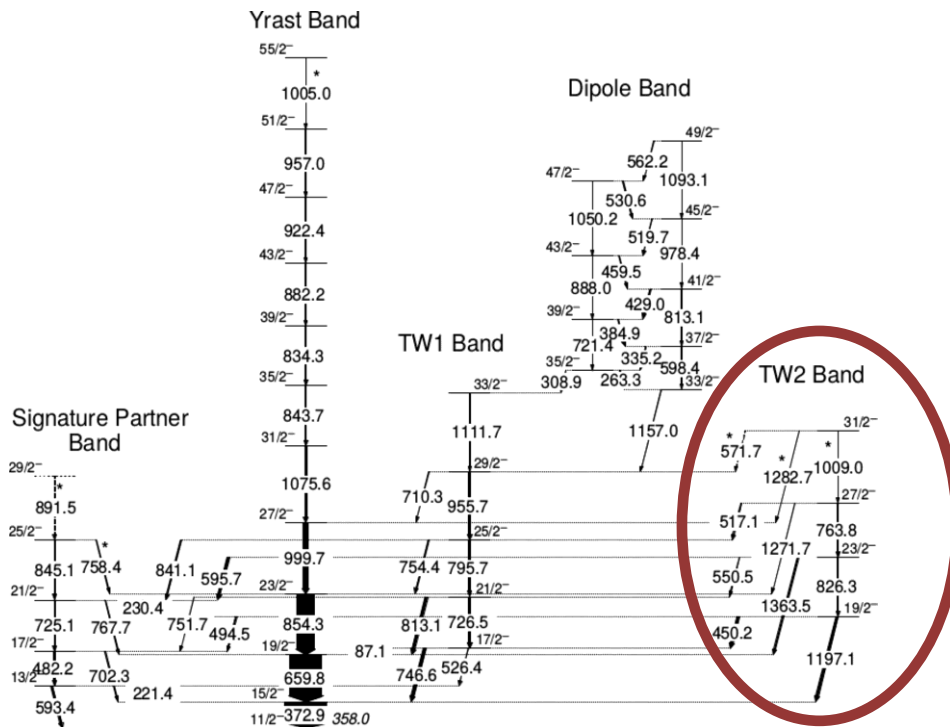


# Two-phonon wobbling in $^{135}\text{Pr}$



Nuclear wobbling motion is a phenomenon that uniquely identifies triaxial nuclei.  $^{135}\text{Pr}$ , being the first observed wobblers in the  $A \sim 130$  region, motivated the search for a second-phonon wobbling band to further validate the motion in this mass region of interest. Our results have established the existence of wobbling in a new mass region with different spin values.



Transverse Wobbling

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