New results concerning the wobbling properties of $^{183,187}Au$

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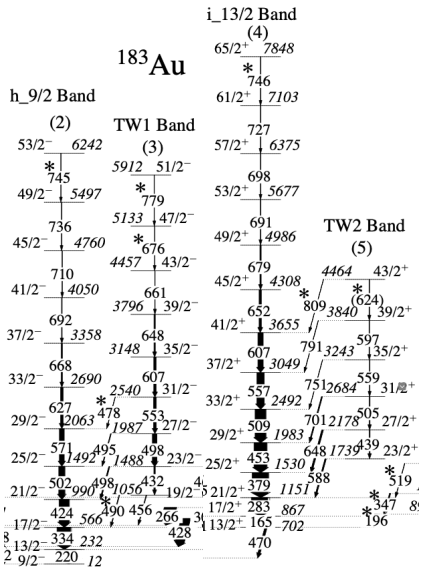
1 Introduction

Two wobbling sequences have been identified in ^{183}Au by Nandi et. al. [1]. One sequence has two bands with states of negative parity (built on top of the odd $h_{9/2}$ proton) and two bands with states of positive parity (built on top of the odd $i_{13/2}$ proton). Both sequences are considered to have $n_w = 0$ for the *yrast* band and $n_w = 1$ for the one-phonon wobbling band.



References

[1] S Nandi, G Mukherjee, QB Chen, S Frauendorf, R Banik, Soumik Bhattacharya, Shabir Dar, S Bhattacharyya, C Bhattacharya, S Chatterjee, and et al. First observation of multiple transverse wobbling bands of different kinds in au 183. *Physical Review Letters*, 125(13):132501, 2020.