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Multiple Chiral Doublet Bands in ^{126}Cs

Following the previously observed chiral doublet bands in ^{126}Cs , a new pair of chiral doublet bands has been proposed. Both two pairs are based on the identical configuration $\pi h_{11/2} \otimes \nu h_{11/2}$ and may be another candidate of novel type of multiple chiral doublets (“yrast” and “excited” $M\chi D$) first observed in ^{103}Rh . Theoretical calculations within covariant density functional theory and particle rotor model are also performed.

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