

The structure of $^{152,154}\text{Nd}$

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Theoretical efforts are made to study the level structure and deformation saturation in $^{152,154}\text{Nd}$. We have studied the deformation saturation in the $\text{SU}(3)$ limit of the interacting boson model, and it is found that the deformation depends more on the effective particle number participating in the collective motion, and depends less on the interaction strength. We have also explored the situation in the Nilsson plus BCS scheme.