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Triaxial Nuclei: Floppy or Rigid?[1] WEICHUAN LI, STEFAN FRAUENDORF, MARK A. CAPRIO, University of Notre Dame — Triaxial nuclear shapes are interesting since they are so unusual in the nuclear chart. But whether triaxial nuclei are soft or rigid in shape is still a question. Softness of triaxial nuclei has primarily been studied in even-even nuclei. We study softness of triaxiality in odd-mass nuclei, using the core quasi-particle model, coupling an even-even core from the algebraic collective model with a quasi-particle in the spherical field. We want to know if the quasi-particle outside of the core influences the rigidness of the core and how it influences the core's properties.

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