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Relativistic configuration-interaction density functional theory: chiral rotation in ^{130}Cs

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The relativistic configuration-interaction density functional theory, which combines the advantages of configuration-interaction shell model and relativistic density functional theory and allows to treat nuclear spectroscopic properties in the laboratory frame, is applied to investigate the chiral rotation in ^{130}Cs. Both energy spectra and transition probabilities of the chiral doublets are well reproduced. The chiral geometries of the chiral doublets in ^{130}Cs are clearly illustrated by the K plot and azimuthal plot. The present work provides the first microscopic and quantized description for the nuclear chiral rotation.

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