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Experimental studies on the nuclear chirality in the $A \sim 80$ mass region

Several experimental studies on the nuclear chirality in the $A \sim 80$ mass region have been performed. We have reported ^{80}Br as the first candidate for chiral nuclei in the $A \sim 80$ mass region. First experimental evidence of Multiple chiral doublet bands with octupole correlations have been reported in ^{78}Br , which indicates that nuclear chirality can be robust against the octupole correlations. Chiral doublet bands were also observed in ^{82}Br , and a better chirality was found in ^{82}Br than ^{78}Br and ^{80}Br . Other experimental studies on the nuclear chirality in the $A \sim 80$ mass region are still in progress.

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