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## Chiral bands in $^{82}\text{Br}$

High spin states of  $^{82}\text{Br}$  were studied by using the fusion-evaporation reaction  $^{82}\text{Se} (^4\text{He}, 1\text{p}4\text{n})$  at beam energies of 65 and 68 MeV. 26 new transitions and 13 new levels were added into the previous level scheme, including a positive-parity band. With the earlier configuration assignment  $\pi 9/2 \otimes \nu 9/2$  to band 1 and the similar experimental features to the chiral doublet bands observed in  $^{78}\text{Br}$  and  $^{80}\text{Br}$ , the positive-parity doublet bands 1 and 2 in  $^{82}\text{Br}$  are therefore suggested as chiral doublet bands with the  $\pi 9/2 \otimes \pi 9/2$  configuration. The interpretation was supported by the relativistic mean field theory and triaxial particle rotor model calculations.

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