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## Possible umbrella-like antimagnetic rotation (UAMR) mode in Pd isotopes

The tilted axis cranking model based on covariant density functional theory is used to study the  $\pi g_{9/2}^{-4} \nu h_{11/2}$  bands in odd-A  $^{101,103}\text{Pd}$  and the  $\pi g_{9/2}^{-4} \nu h_{11/2}^2$  bands in even-even  $^{102,104}\text{Pd}$ . The experimental energy spectra and B(E2) values are reproduced well in the self-consistent and microscopic calculations. By investigating microscopically the composition and orientation of angular momentum, an umbrella-like antimagnetic rotation (UAMR) mode resulting from the coupling of four  $g_{9/2}$  proton holes to one or two aligned  $h_{11/2}^2$  neutron particles is clearly illustrated for the first time.

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