

Abstract Submitted  
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**Oblate deformation in  $^{118,119}\text{Ag}$**  E.H. WANG, J.H. HAMILTON, A.V. RAMAYYA, J.K. HWANG, Vanderbilt University, H.J. LI, Tsinghua University, Y.X. LIU, Huzhou University, Y.X. LUO, Vanderbilt University, J.O. RASMUSSEN, LBNL, Y. SUN, Shanghai Jiao Tong University, S.J. ZHU, Tsinghua University, G.M. TER-AKOPIAN, YU.TS. OGANESSIAN, JINR — High spin level schemes of  $^{118,119}\text{Ag}$  are established for the first time by analyzing the high statistics  $\gamma$ - $\gamma$ - $\gamma$  and  $\gamma$ - $\gamma$ - $\gamma$ - $\gamma$  coincidence data from the spontaneous fission of  $^{252}\text{Cf}$  at Gammasphere. Two bands with 12 new levels in  $^{118}\text{Ag}$  and two bands with 13 new levels in  $^{119}\text{Ag}$  have been identified. Spins and parities are tentatively assigned according to the systematics. A total Routhian surface calculation and projected shell model calculation have been performed to understand the behavior of these two nuclei. The calculations indicate oblate shape in  $^{118,119}\text{Ag}$ . The dramatic change of signature inversion point in  $^{118}\text{Ag}$  among odd-odd Ag nuclei needs further theoretical consideration.

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