

Abstract Submitted  
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**Chiral orbital angular momentum and warping effect in topological insulator Bi<sub>2</sub>Te<sub>3</sub>** WON SIG JUNG, Y.K. KWAN, B.Y. KIM, Yonsei University, Seoul, Korea, J.Y. KIM, B.K. CHO, Dept of Materials Science and Engineering, GIST, Korea, C. KIM, Yonsei University, Seoul, Korea — The spin of a topologically protected metallic surface state on topological insulators has a chiral state. The Spin chiral state is aligned with orbital angular momentum of the electron in the surface states. We observe orbital angular momentum direction by using angle resolved photoemission (ARPES) with circularly polarized lights.

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