

Corrigendum: Topological crystalline insulators in the SnTe material class

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Nature Communications 3:982 doi:10.1038/ncomms1969 (2012); Published 31 Jul 2012; Updated 21 May 2013

In the Discussion section of this Article, we incorrectly claimed that an in-plane magnetic field will generate Dirac mass terms for the surface states. Instead, the in-plane magnetic field merely shifts the location of the Dirac points. The $k \cdot p$ Hamiltonian in the presence of an in-plane field (B_1, B_2) (in the local basis defined in the Article) is

$$H_{s_f, B} = v_{\perp} k_1 s_2 - v_{\parallel} k_2 s_1 + g_1 \mu_B B_1 s_1 + g_2 \mu_B B_2 s_2 \quad (10)$$

$$= v_{\perp} \left(k_1 + \frac{g_2 \mu_B B_2}{v_{\perp}} \right) s_2 - v_{\parallel} \left(k_2 - g_1 \mu_B \frac{B_1}{v_{\parallel}} \right) s_1 \quad (11)$$

where μ_B is the Bohr magneton and $g_{1,2}$ is the g -factor of Dirac surface states.