[1] A. Cottet *et al.*, Semicond. Sci. Technol. **21**, S78 (2006).

[2] A. Fert *et al.*, IEEE Trans. Electron Dev. **54**, 921 (2007).

[3] K. Tsukagoshi, W. B. Alphenaar, and H. Ago, Nature **401**, 572 (1999).

[4] S. Sahoo *et al.*, Nature Phys. **1**, 99 (2005).

[5] P. Petit *et al.*, Phys. Rev. B **56**, 9275 (1997).

[6] L. E. Hueso *et al.*, Nature **445**, 410 (2007).

[7] Y. G. Semenov, K. W. Kim, and G. J. Iafrate, Phys. Rev. B **75**, 045429 (2007).

[8] H. O. H. Churchill *et al.*, Nature Phys. **5**, 321 (2009).

[9] J. Serrano, M. Cardona, and J. Ruff, Solid State Commun. **113**, 411 (2000).

[10] D. Huertas-Hernando, F. Guennea, and A. Brataas, Phys. Rev. B **74**, 155426 (2006).

[11] T. Ando, J. Phys. Soc. Japan **69**, 1757 (2000).

[12] J.-S. Jeong and H.-W. Lee, Phys. Rev. B **80**, 075409 (2009).

[13] W. Izumida, K. Sato, and R. Satoito, J. Phys. Soc. Japan **78**, 074707 (2009).

[14] L. Chico, M. P. López-Sancho, and M. C. Muñoz, Phys. Rev. B **79**, 235423 (2009).

[15] F. Kuemmeth *et al.*, Nature **452**, 448 (2008).

[16] D. V. Bulaev, B. Trauzettel, and D. Loss, Phys. Rev. B **77**, 235301 (2008).

[17] T. Ando, J. Phys. Soc. Japan **74**, 777 (2005).

[18] J. C. Slonczewski and P. R. Weiss, Phys. Rev. **109**, 272 (1958).

[19] Evaluating the Δ_1 in Ref. [15], the contribution of first term $\sim \Delta_0$ in Eq. (3) was not taken into account. It does not matter if $\cos 3\theta \approx 0$; we suppose that this was the case for the actual CNT in Ref. 15.

[20] H. O. H. Churchill *et al.*, Phys. Rev. Lett. **102**, 166802 (2009).

[21] Y. G. Semenov, Phys. Rev. B **67**, 115319 (2003); Y. G. Semenov and K. W. Kim, *ibid* **75**, 195342 (2007).

[22] G. E. Pikus and A. N. Titkov, in *Optical Orientation*, Ed. F. Meier and B. P. Zakharchenia (Elsevier, Amsterdam, 1984), Chap. 3.

[23] B. F. Habenicht, S. V. Kilina, and O. V. Prezhdo, Pure Appl. Chem. **80**, 1433 (2008).