Pressure Effects on Ferromagnetic Superconductors

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Pressure effects on ferromagnetic superconductors are investigated theoretically. As the example, the pressure differential of the Curie temperature is studied numerically. In our previous study, the pressure differential of the Curie temperature was shown based on the Hamiltonian derived by Linder et al. [1]by making the mean field approximation in terms of the electron-electron interaction analytically [2]. There have been no numerical results of the pressure differntial of the Curie temperature originated from the microscopic model. In this study, the numerical results are reported.

[1]J. Linder, and A. Sudbo, Phys. Rev. B **76**, 054511 (2007).
[2]R. Konno, and N. Hatayama, to be published in the Proceedings of the CMMP 2010.