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Experimental investigation of potential topological and p-wave superconductors

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List of publications

1. **T. V. Bay**, A. M. Nikitin, T. Naka, A. McCollam, Y. K. Huang, and A. de Visser, “*Angular variation of the magnetoresistance of the superconducting ferromagnet UCoGe*”, *Phys. Rev. B* 89, 214512 (2014).
(As a part of Chapter 6)
2. **T. V. Bay**, M. Jackson, C. Paulsen, C. Baines, A. Amato, T. Orvis, M.C. Aronson, Y.K. Huang, and A. de Visser, “*Low field magnetic response of the non - centrosymmetric superconductor YPtBi*”, *Solid State Commun.* 183, 13 (2014).
(As a part of Chapter 5)
3. **T. V. Bay**, T. Naka, Y.K. Huang, H. Luigjes, M.S. Golden and A. de Visser, “*Superconductivity in the doped topological insulator $Cu_xBi_2Se_3$ under high pressure*”, *Phys. Rev. Lett.* 108, 057001 (2012).
(As a part of Chapter 5)
4. **T. V. Bay**, T. Naka, Y.K. Huang, and A. de Visser, “*Superconductivity in non-centrosymmetric YPtBi under pressure*”, *Phys. Rev. B* 86, 064515 (2012).
(As a part of Chapter 4)
5. **Tran Van Bay**, Nguyen Khanh Thuy and Nguyen Toan Thang, “*On the Collective Excitations in Magnetic Systems with a Singlet Crystal-Field Ground State*”, *Communications in Physics* 19, 129 (2009).
6. Y. Pan, A.M. Nikitin, **T.V. Bay**, Y.K. Huang, C. Paulsen, B.H. Yan, and A. de Visser, “*Superconductivity and magnetic order in the non-centrosymmetric half-Heusler compound ErPdBi*”, *Europhys. Lett.* 104, 27001 (2013).
7. E. Frantzeskakis, N. de Jong, B. Zwartsenberg, Y. Huang, **T. V. Bay**, P. Pronk, E. van Heumen, D. Wu, Y. Pan, M. Radovic, N. C. Plumb, M. Shi, A. de Visser, and M. S. Golden, “*EUV electronic lithography of micrometric patterns in 2D topological surface states*”, submitted.
8. Y. Pan, D. Wu, J. R. Angevaere, H. Luigjes, E. Frantzeskakis, N. de Jong, E. van Heumen, **T. V. Bay**, B. Zwartsenberg, Y. K. Huang, M. Snelder, A. Brinkman, M. S.

Golden, and A. de Visser, “*Optimizing the topological insulator $\text{Bi}_{2-x}\text{Sb}_x\text{Te}_{3-y}\text{Se}_y$: a magnetotransport study*”, submitted.