Proximity effects in superconducting spin-valve structures

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Bibliography

[1] H. K. Onnes, Leiden Commun. **119b, 120b, 122b, 124c** (1911).

[2] J. G. Bednorz and K. A. Müller, Rev. Mod. Phys. **60**, 585 (1988).

[3] W. Meissner and R. Ochsenfeld, Naturwiss. **21**, 787 (1933).

[4] R. Meservey, P. M. Tedrow, and P. Fulde, Phys. Rev. Lett. **25**, 1270 (1970).

[5] P. M. Tedrow and R. Meservey, Phys. Rev. Lett. **26**, 192 (1971).

[6] P. M. Tedrow and R. Meservey, Phys. Rev. B **7**, 318 (1973).

[7] M. Tinkham and J. Clarke, Phys. Rev. Lett. **28**, 1366 (1972).

[8] M. Tinkham, Phys. Rev. B **6**, 1747 (1972).

[9] L. R. Tagirov, Phys. Rev. Lett. **83**, 2058 (1999).

[10] A. I. Buzdin, A. V. Vedyayev, and N. V. Ryzhanova, Europhys. Lett. **48**, 686 (1999).

[11] L. N. Cooper, Phys. Rev. **104**, 1189 (1956).

[12] J. Bardeen, L. N. Cooper, and J. R. Schrieffer, Phys. Rev. **106**, 162 (1957).

[13] J. Bardeen, L. N. Cooper, and J. R. Schrieffer, Phys. Rev. **108**, 1175 (1957).

[14] N. N. Bogoliubov, Sov. Phys. JETP **7** (1958).

[15] P. G. D. Gennes, *Superconductivity of Metals and Alloys* (Benjamin, New York, 1966).

[16] G. E. Blonder, M. Tinkham, and T. M. Klapwijk, Phys. Rev. B **25**, 4515 (1982).

[17] A. Kastalsky *et al.*, Phys. Rev. Lett. **67**, 3026 (1991).

[18] A. A. Abrikosov, L. P. Gor'kov, and I. E. Dzyaloshinski, *Methods of Quantum Field Theory in Statistical Physics* (Dover, 1963, 1963).

[19] N. Kopnin, *Theory of Nonequilibrium Superconductivity* (Oxford University Press, 2001).

[20] L. P. Gor'kov, Sov. Phys. JETP **7**, 505 (1958).

[21] L. P. Gor'kov, JETP **9**, 1364 (1959).

[22] V. L. Ginzburg and L. D. Landau, JETP **20**, 1064 (1950).

[23] G. Eilenberger, Zeitschrift für Physik **214**, 195 (1968).

[24] A. A. Abrikosov and L. P. Gor'kov, JETP **8**, 1090 (1959).

[25] K. D. Usadel, Phys. Rev. Lett. **25**, 507 (1970).

[26] P. W. Anderson and P. Morel, Phys. Rev. **123**, 1911 (1961).

[27] R. Balian and N. R. Werthamer, Phys. Rev. **131**, 1553 (1963).

[28] A. Leggett, Rev. Mod. Phys. **76**, 999 (2004).

[29] R. S. Keizer *et al.*, Nature **439**, 825 (2006).

[30] I. Sosnin, H. Cho, V. T. Petrashov, and A. F. Volkov, Phys. Rev. Lett. **96**, 157002 (2006).

[31] F. S. Bergeret, A. F. Volkov, and K. B. Efetov, Rev. Mod. Phys. **77**, 1321 (2005).

[32] P. Fulde and R. A. Ferrell, Phys. Rev. **135**, A550 (1964).

[33] A. I. Larkin and Y. N. Ovchinnikov, Sov. Phys. JETP **20**, 762 (1965).

[34] R. O'Handley, *Modern Magnetic Materials* (Wiley and Sons, New York, 2000).

[35] A. F. Andreev, Sov. Phys. JETP **19**, 1228 (1964).

[36] M. J. M. de Jong and C. W. J. Beenakker, Phys. Rev. Lett. **74**, 1657 (1995).

[37] E. A. Demler, G. B. Arnold, and M. R. Beasley, Phys. Rev. B **55**, 15174 (1997).

[38] A. Kadigrobov, R. I. Shekhter, and M. Jonson, Europhys. Lett. **54**, 394 (2001).

[39] F. S. Bergeret, A. F. Volkov, and K. B. Efetov, Phys. Rev. Lett. **86**, 4096 (2001).

[40] M. Eschrig and T. Löfwander, Nature Physics **4**, 138 (2008).

[41] A. I. Buzdin, Rev. Mod. Phys. **77**, 935 (2005).

[42] I. F. Lyuksyutov and V. L. Pokrovsky, Adv. in Phys. **54**, 67 (2005).

[43] M. Eschrig, J. Kopu, J. C. Cuevas, and G. Schön, Phys. Rev. Lett. **90**, 137003 (2003).

[44] Y. Obi, M. Ikebe, T. Kubo, and H. Fujimori, Physica C **317**, 149 (1999).

[45] L. Lazar *et al.*, Phys. Rev. B **61**, 3711 (2000).

[46] V. V. Ryazanov *et al.*, Phys. Rev. Lett. **86**, 2427 (2001).

[47] T. Kontos, M. Aprili, J. Lesueur, and X. Grison, Phys. Rev. Lett. **86**, 304 (2001).

[48] J. Gu *et al.*, Phys. Rev. Lett. **89**, 267001 (2002).

[49] A. Potenza and C. H. Marrows, Phys. Rev. B **71**, 180503(R) (2005).

[50] I. C. Moraru, J. W. P. Pratt, and N. O. Birge, Phys. Rev. Lett. **96**, 037004 (2006).

[51] A. Y. Rusanov, S. Habraken, and J. Aarts, Phys. Rev. B **73**, 060505(R) (2006).

[52] I. C. Moraru, J. W. P. Pratt, and N. O. Birge, Phys. Rev. B **74**, 220507(R) (2006).

[53] D. Stamopoulos, E. Manios, and M. Pissas, Phys. Rev. B **75**, 184504 (2007).

[54] R. Steiner and P. Ziemann, Phys. Rev. B **74**, 094504 (2006).

[55] G. Carapella, F. Russo, and G. Costabile, Phys. Rev. B **78**, 104529 (2008).

[56] A. Y. Rusanov, M. Hesselberth, J. Aarts, and A. I. Buzdin, Phys. Rev. Lett. **93**, 057002 (2004).

[57] C. Cirillo, A. Rusanov, C. Bell, and J. Aarts, Phys. Rev. B **75**, 174510 (2007).

[58] A. Rusanov, R. Boogaard, M. Hesselberth, H. Sellier, and J. Aarts, Physica C **369**, 300 (2002).

[59] A. Y. Rusanov, M. Hesselberth, and J. Aarts, Phys. Rev. B **70**, 024510 (2004).

[60] V. V. Ryazanov, private communication .

[61] R. J. Kinsey, G. Burnell, and M. G. Blamire, IEEE Trans. Appl. Superc. **11**, 904 (2001).

[62] E. C. Stoner and E. P. Wohlfarth, Phil. Trans. Roy. Soc. A **240**, 599 (1948).

[63] A. Ruotolo, C. Bell, C. W. Leung, and M. G. Blamire, Jn. Appl. Phys. **96**, 512 (2004).

[64] S. V. Dubonos, A. K. Geim, K. S. Novoselov, and I. V. Grigorieva, Phys. Rev. B **65**, 220513(R) (2002).

[65] H.-Y. Wu, J. Ni, J.-W. Cai, Z.-H. Cheng, and Y. Sun, Phys. Rev. B **76**, 024416 (2007).

[66] C. Monton, F. de la Cruz, and J. Guimpel, Phys. Rev. B **77**, 104521 (2008).

[67] Y. V. Fominov, A. A. Golubov, and M. Y. Kupriyanov, JETP Lett. **77**, 510 (2003).

[68] M. Flokstra and J. Aarts, Phys. Rev. B **80**, 144513 (2009).

[69] T. Trunk, M. Redjdal, A. K'akay, M. F. Ruane, and F. B. Humphrey, J. Appl. Phys. **89**, 7606 (2001).

[70] M. Redjdal, J. H. Giusti, M. F. Ruane, and F. B. Humphrey, IEEE Trans. Magn. **39**, 2684 (2003).

[71] J. Xia, V. Shelukhin, M. Karpovski, A. Kapitulnik, and A. Palevski, Phys. Rev. Lett. **102**, 087004 (2009).

[72] R. I. Salikhov *et al.*, Phys. Rev. Lett. **102**, 087003 (2009).

[73] P. Bakule and E. Morenzoni, Contemporary Physics **45**, 203 (2004).

[74] H. Luetkens *et al.*, Phys. Rev. Lett. **91**, 017204 (2003).

[75] A. J. Drew *et al.*, Phys. Rev. Lett. **95**, 197201 (2005).

[76] H. Luetkens, private communication .

[77] W. H. Press, *Numerical Recipes* (Cambridge University Press, 2007).

[78] H. Pothier, S. Guéron, N. O. Birge, D. Esteve, and M. H. Devoret, Phys. Rev. Lett. **79**, 3490 (1997).

[79] F. Pierre *et al.*, Phys. Rev. B **68**, 085413 (2003).

[80] C. Lau, N. Markovic, M. Bockrath, A. Bezryadin, and M. Tinkham, Phys. Rev. Lett. **87**, 217003 (2001).

[81] A. D. Zaikin, D. S. Golubev, A. van Otterlo, and G. T. Zimányi, Phys. Rev. Lett. **78**, 1552 (1997).

[82] Where we introducing the phase χ: $\phi = \chi - \frac{2e}{\hbar}\int_0 xA(l)dl$.

[83] A. Schmid and G. Schön, J. Low Temp. Phys. **20**, 207 (1975).

[84] A. I. Larkin and Y. N. Ovchinnikov, Sov. Phys. JETP **46**, 155 (1977).

[85] G. R. Boogaard, A. H. Verbruggen, W. Belzig, and T. M. Klapwijk, Phys. Rev. B **69**, 220503(R) (2004).

[86] A. Anthore, H. Pothier, and D. Esteve, Phys. Rev. Lett. **90**, 127001 (2003).

[87] J. S. Langer and V. Ambegaokar, Phys. Rev. **164**, 489 (1967).

[88] J. Bardeen, Rev. Mod. Phys. **34**, 667 (1962).