

Bibliography

- [1] S. Weinberg, *Scientist: Four golden lessons*, Nature (London) **426**, 389 (2003).
- [2] A. Aviram and M. Ratner, *Molecular Rectifiers*, Chem. Phys. Lett. **29**, 277 (1974).
- [3] M. A. Reed and J. M. Tour, *Computing With Molecules*, Scientific American **282**, 86 (2000).
- [4] C. Joachim, J. K. Gimzewski, and A. Aviram, *Electronics using hybrid-molecular and mono-molecular devices*, Nature (London) **408**, 541 (2000).
- [5] J. R. Heath and M. A. Ratner, *Molecular Electronics*, Physics Today **56**, 43 (2003).
- [6] A. Nitzan and M. A. Ratner, *Electron Transport in Molecular Wire Junctions*, Science **300**, 1384 (2003).
- [7] A. H. Flood, J. F. Stoddart, D. W. Steuerman, and J. R. Heath, *Whence Molecular Electronics?*, Science **306**, 2055 (2004).
- [8] G. Moore, *Cramming more components onto integrated circuits*, Electronics Magazine (04/19/1965).
- [9] M. A. Reed, C. Zhou, C. J. Muller, T. P. Burgin, and J. Tour, *Conductance of a Molecular Junction*, Science **278**, 252 (1997).
- [10] Y. Imry, *Introduction to Mesoscopic Physics*. Oxford University Press, New York, 1997.
- [11] H. Grabert and M. H. Devoret, eds., *Single Charge Tunneling in Coulomb Blockade Phenomena in Nanostructures*, Plenum Press, New York/London, 1992.
- [12] D. V. Averin and K. K. Likharev, *Single electronics: A correlated transfer of single electrons and Cooper pairs in systems of small tunnel junctions in Mesoscopic Phenomena in Solids* (B. L. Altshuler, P. A. Lee, and R. A. Webb, eds.), North-Holland, New York, 1991.
- [13] J. Kondo, *Resistance Minimum in Dilute Magnetic Alloys*, Prog. Theoret. Phys. **32**, 37 (1964).
- [14] L. I. Glazman and M. Pustilnik, *Low-temperature transport through a quantum dot in Nanophysics: Coherence and Transport* (H. Bouchiat, Y. Gefen, G. M. S. Guéron, and J. Dalibard, eds.), pp. 427–478, Elsevier, Amsterdam, 2005.

- [15] J. Moreland and J. W. Ekin, *Electron tunneling experiments using Nb-Sn "break" junctions*, J. Appl. Phys. **58**, 3888 (1985).
- [16] C. Zhou, C. J. Muller, M. R. Deshpande, J. W. Sleight, and M. A. Reed, *Microfabrication of a mechanically controllable break junction in silicon*, Appl. Phys. Lett. **67**, 1160 (1995).
- [17] J. M. van Ruitenbeek, A. Alvarez, I. Piñeyro, C. Grahmann, P. Joyez, M. H. Devoret, D. Esteve, and C. Urbina, *Adjustable nanofabricated atomic size contacts*, Rev. Sci. Instrum. **67**, 108 (1996).
- [18] H. Park, A. K. L. Lim, A. P. Alivisatos, J. Park, and P. L. McEuen, *Fabrication of metallic electrodes with nanometer separation by electromigration*, Appl. Phys. Lett. **75**, 301 (1999).
- [19] T. Dadoosh, Y. Gordin, R. Krahne, I. Khivrich, D. Mahalu, V. Frydman, J. Sperling, A. Yacoby, and I. Bar-Joseph, *Measurement of the conductance of single conjugated molecules*, Nature (London) **436**, 677 (2005).
- [20] L. Grüter, F. Cheng, T. T. Heikkilä, M. T. González, F. Diederich, C. Schönenberger, and M. Calame, *Resonant tunnelling through a C₆₀ molecular junction in a liquid environment*, Nanotechnology **16**, 2143 (2005).
- [21] X. H. Qiu, G. V. Nazin, and W. Ho, *Vibronic States in Single Molecule Electron Transport*, Phys. Rev. Lett. **92**, 206102 (2004).
- [22] R. H. M. Smit, Y. Noat, C. Untiedt, N. D. Lang, M. C. van Hemert, and J. M. van Ruitenbeek, *Measurement of the conductance of a hydrogen molecule*, Nature (London) **419**, 906 (2002).
- [23] D. Porath, A. Bezryadin, S. de Vries, and C. Dekker, *Direct measurement of electrical transport through DNA molecules*, Nature (London) **403**, 635 (2000).
- [24] J. Reichert, R. Ochs, D. Beckmann, H. B. Weber, M. Mayor, and H. v. Löhneysen, *Driving current through single organic molecules*, Phys. Rev. Lett. **88**, 176804 (2002).
- [25] C. Dekker, *Carbon Nanotubes as molecular quantum wires*, Physics Today **52**, 22 (1999).
- [26] H. Park, J. Park, A. K. L. Lim, E. H. Anderson, A. P. Alivisatos, and P. L. McEuen, *Nanomechanical oscillations in a single C₆₀ transistor*, Nature (London) **407**, 57 (2000).
- [27] J. Park, A. N. Pasupathy, J. I. Goldsmith, A. V. Soldatov, C. Chang, Y. Yaish, J. P. Sethna, H. D. Abruña, D. C. Ralph, and P. L. McEuen, *Wiring up single molecules*, Thin Solid Films **438-439**, 457 (2003).
- [28] A. N. Pasupathy, J. Park, C. Chang, A. V. Soldatov, S. Lebedkin, R. C. Bialczak, J. E. Grose, L. A. K. Donev, J. P. Sethna, D. C. Ralph, and P. L. McEuen, *Vibration-assisted electron tunneling in C₁₄₀ transistors*, Nano Lett. **5**, 203 (2005).

- [29] L. H. Yu and D. Natelson, *The Kondo Effect in C₆₀ Single-Molecule Transistors*, Nano Lett. **4**, 79 (2004).
- [30] L. Yu, Z. Keane, J. Ciszek, L. Cheng, M. Stewart, J. Tour, and D. Natelson, *Inelastic electron tunneling via molecular vibrations in single-molecule transistors*, Phys. Rev. Lett. **93**, 266802 (2004).
- [31] D.-H. Chae, J. F. Berry, S. Jung, F. A. Cotton, C. A. Murillo, and Z. Yao, *Vibrational Excitations in Single Trimetal-Molecule Transistors*, Nano Lett. **6**, 165 (2006).
- [32] A. S. Martin, J. R. Sambles, and G. J. Ashwell, *Molecular Rectifier*, Phys. Rev. Lett. **70**, 218 (1993).
- [33] R. M. Metzger, B. Chen, U. Hopfner, M. V. Lakshmikantham, D. Vuillaume, T. Kawai, X. Wu, H. Tachibana, T. V. Hughes, H. Sakurai, J. W. Baldwin, C. Hosch, M. P. Cava, L. Brehmer, and G. J. Ashwell, *Unimolecular electrical rectification in hexadecylquinolinium tricyanoquinodimethanide*, J. Am. Chem. Soc. **119**, 10455 (1997).
- [34] C. Zhou, M. R. Deshpande, M. A. Reed, L. J. II, and J. M. Tour, *Nanoscale metal/self-assembled monolayer/metal heterostructures*, Appl. Phys. Lett. **71**, 611 (1997).
- [35] J. Zhao, C. Zeng, X. Cheng, K. Wang, G. Wang, J. Yang, J. G. Hou, and Q. Zhu, *Single C₅₉N Molecule as a Molecular Rectifier*, Phys. Rev. Lett. **95**, 045502 (2005).
- [36] M. A. Reed, J. Chen, A. M. Rawlett, D. W. Price, and J. M. Tour, *Molecular random access memory cell*, Appl. Phys. Lett. **78**, 3735 (2001).
- [37] J. Chen, M. A. Reed, A. M. Rawlett, and J. M. Tour, *Large On-Off Ratios and Negative Differential Resistance in a Molecular Electronic Device*, Science **286**, 1550 (1999).
- [38] J. Park, A. N. Pasupathy, J. I. Goldsmith, C. Chang, Y. Yaish, J. R. Petta, M. Rinkoski, J. P. Sethna, H. D. Abruñas, P. L. McEuen, and D. C. Ralph, *Coulomb blockade and Kondo effect in single-atom transistors*, Nature (London) **417**, 722 (2002).
- [39] H. B. Heersche, Z. de Groot, J. A. Folk, H. S. J. van der Zant, C. Romeike, M. R. Wegewijs, L. Zobbi, D. Barreca, E. Tondello, and A. Cornia, *Electron transport through single Mn₁₂ molecular magnets*, cond-mat/0510732 (2006).
- [40] R. C. Jaklevic and J. Lambe, *Molecular vibration spectra by electron tunneling*, Phys. Rev. Lett. **17**, 1139 (1966).
- [41] L. I. Glazman and R. I. Shekhter, *Inelastic resonant tunneling of electrons through a potential barrier*, Sov. Phys. JETP **67**, 163 (1988).
- [42] N. S. Wingreen, K. W. Jacobsen, and J. W. Wilkins, *Resonant Tunneling with Electron-Phonon Interaction: An Exactly Solvable Model*, Phys. Rev. Lett. **61**, 1396 (1988).

- [43] M. Galperin, M. A. Ratner, and A. Nitzan, *Inelastic electron tunneling spectroscopy in molecular junctions: Peaks and dips*, J. Chem. Phys. **121**, 11965 (2004).
- [44] B. LeRoy, S. Lemay, J. Kong, and C. Dekker, *Electrical generation and absorption of phonons in carbon nanotubes*, Nature (London) **432**, 371 (2004).
- [45] A. Mitra, I. Aleiner, and A. J. Millis, *Phonon effects in molecular transistors: Quantum and classical treatment*, Phys. Rev. B **69**, 245302 (2004).
- [46] P. Hohenberg and W. Kohn, *Inhomogeneous Electron Gas*, Phys. Rev. **136**, B864 (1964).
- [47] W. Kohn and L. J. Sham, *Self-Consistent Equations Including Exchange and Correlation Effects*, Phys. Rev. **140**, A1133 (1965).
- [48] Y. Xue and M. A. Ratner, *Microscopic study of electrical transport through individual molecules with metallic contacts*, Phys. Rev. B **68**, 115407 (2003).
- [49] M. Di Ventra, N. D. Lang, and S. T. Pantelides, *Electronic transport in single molecules*, Chem. Phys. **281**, 189 (2002).
- [50] R. U. I. Liu, S.-H. Ki, H. Baranger, and W. Yang, *Intermolecular Effect in Molecular Electronics*, J. Chem. Phys. **122**, 044703 (2005).
- [51] F. Evers, F. Weigend, and M. Koentopp, *Conductance of molecular wires and transport calculations based on density-functional theory*, Phys. Rev. B **69**, 235411 (2004).
- [52] E. Runge and E. K. U. Gross, *Density-Functional Theory for Time-Dependent Systems*, Phys. Rev. Lett. **52**, 997 (1984).
- [53] K. Burke, R. Car, and R. Gebauer, *Density functional theory of dissipative systems*, cond-mat/0410352 (2004).
- [54] K. Burke, J. Werschnik, and E. K. U. Gross, *Time-dependent density functional theory: Past, present, and future*, J. Chem. Phys. **123**, 062206 (2005).
- [55] S. Kurth, G. Stefanucci, C.-O. Almbladh, A. Rubio, and E. K. U. Gross, *Time-dependent quantum transport: A practical scheme using density functional theory*, Phys. Rev. B **72**, 035308 (2005).
- [56] M. H. Hettler, H. Schoeller, and W. Wenzel, *Non-linear transport through a molecular nanojunction*, Europhys. Lett. **57**, 571 (2002).
- [57] M. H. Hettler, W. Wenzel, M. R. Wegewijs, and H. Schoeller, *Current collapse in tunneling transport through benzene*, Phys. Rev. Lett. **90**, 076805 (2003).
- [58] D. Boese and H. Schoeller, *Influence of nanomechanical properties on single-electron tunneling: A vibrating single-electron transistor*, Europhys. Lett. **54**, 668 (2001).
- [59] V. Aji, J. E. Moore, and C. M. Varma, *Electronic-vibrational coupling in single-molecule devices*, cond-mat/0302222 (2003).

- [60] S. Braig and K. Flensberg, *Vibrational sidebands and dissipative tunneling in molecular transistors*, Phys. Rev. B **68**, 205324 (2003).
- [61] K. Flensberg, *Tunneling broadening of vibrational sidebands in molecular transistors*, Phys. Rev. B **68**, 205323 (2003).
- [62] D. A. Ryndyk, M. Hartung, and G. Cuniberti, *Nonequilibrium excitation of molecular vibrons*, Phys. Rev. B **73**, 045420 (2006).
- [63] G. A. Kaat and K. Flensberg, *Rectification in single molecular dimers with strong polaron effect*, Phys. Rev. B **71**, 155408 (2005).
- [64] M. Cizek, M. Thoss, and W. Domcke, *Charge transport through a flexible molecular junction*, Czech J. Phys. **55**, 189 (2005).
- [65] M. R. Wegewijs and K. C. Nowack, *Nuclear wave function interference in single-molecule electron transport*, New J. Phys. **7**, 239 (2005).
- [66] J. Paaske and K. Flensberg, *Vibrational Sidebands and the Kondo Effect in Molecular Transistors*, Phys. Rev. Lett. **94**, 176801 (2005).
- [67] K. Kikoin, M. N. Kiselev, and M. R. Wegewijs, *Vibration-induced Kondo tunneling through metal-organic complexes with even electron occupation number*, Phys. Rev. Lett. **96**, 176801 (2006).
- [68] A. D. Stone and P. A. Lee, *Effect of Inelastic Processes on Resonant Tunneling in One Dimension*, Phys. Rev. Lett. **54**, 1196 (1985).
- [69] M. Büttiker, *Role of quantum coherence in series resistors*, Phys. Rev. B **33**, 3020 (1986).
- [70] S. Datta, *Electronic Transport in Mesoscopic Systems*, ch. 6.2. Cambridge University Press, Cambridge, 1995.
- [71] I. G. Lang and Y. A. Firsov, *Kinetic theory of semiconductors with low mobility*, Sov. Phys. JETP **16**, 1301 (1963).
- [72] S. Braig and K. Flensberg, *Dissipative tunneling and orthogonality catastrophe in molecular transistors*, Phys. Rev. B **70**, 085317 (2004).
- [73] B. N. J. Persson and A. Baratoff, *Inelastic Electron Tunneling from a Metal Tip: The Contribution from Resonant Processes*, Phys. Rev. Lett. **59**, 339 (1987).
- [74] S. Gao, M. Persson, and B. I. Lundqvist, *Theory of atom transfer with a scanning tunneling microscope*, Phys. Rev. B **55**, 4825 (1997).
- [75] D. Fedorets, L. Gorelik, R. I. Shekhter, and M. Jonson, *Quantum Shuttle Phenomena in a Nanoelectromechanical Single-Electron Transistor*, Phys. Rev. Lett. **92**, 166801 (2004).

- [76] T. Novotný, A. Donarini, C. Flindt, and A.-P. Jauho, *Shot Noise of a Quantum Shuttle*, Phys. Rev. Lett. **92**, 248302 (2004).
- [77] A. O. Caldeira and A. J. Leggett, *Influence of damping on quantum interference: An exactly soluble model*, Phys. Rev. A **31**, 1059 (1985).
- [78] K. C. Nowack and M. R. Wegewijs, *Vibration-assisted tunneling through competing molecular states*, cond-mat/0506552 (2005).
- [79] F. Elste and C. Timm, *Theory for transport through a single magnetic molecule: endohedral $N@C_{60}$* , Phys. Rev. B **71**, 155403 (2005).
- [80] F. Elste and C. Timm, *Transport through anisotropic magnetic molecules with partially ferromagnetic leads: spin-charge conversion and negative differential conductance*, cond-mat/0601294 (2006).
- [81] C. Romeike, M. R. Wegewijs, and H. Schoeller, *Spin quantum tunneling in single molecular magnets: fingerprints in transport spectroscopy of current and noise*, Phys. Rev. Lett. **96**, 196805 (2006).
- [82] G. Iche and A. Zawadowski, *Partial cancellation in the electron-hole and electron-electron correlation in the symmetric Anderson model*, Solid State Commun. **10**, 1001 (1972).
- [83] F. D. M. Haldane, *Hartree-Fock study of the Anderson model coupled to a boson field; mixed valence states*, Phys. Rev. B **15**, 281 (1977).
- [84] A. N. Korotkov, *Intrinsic noise of the single-electron transistor*, Phys. Rev. B **49**, 10381 (1994).
- [85] J. J. Sakurai, *Modern Quantum Mechanics*. Addison-Wesley, Reading, 2nd ed., 1994.
- [86] D. V. Averin and Y. V. Nazarov, *Virtual Electron Diffusion during Quantum Tunneling of Electric Charge*, Phys. Rev. Lett. **65**, 2446 (1990).
- [87] D. V. Averin, *Periodic conductance oscillations in the single-electron tunneling transistor*, Physica B **194-196**, 979–980 (1994).
- [88] M. Turek and K. A. Matveev, *Cotunneling thermopower of single electron transistors*, Phys. Rev. B **65**, 115332 (2002).
- [89] J. König, H. Schoeller, and G. Schön, *Cotunneling at Resonance for the Single-Electron Transistor*, Phys. Rev. Lett. **78**, 4482 (1997).
- [90] C. W. J. Beenakker, *Theory of Coulomb-blockade oscillations in the conductance of a quantum dot*, Phys. Rev. B **44** (1646).
- [91] D. V. Averin, A. N. Korotkov, and K. K. Likharev, *Theory of single-electron charging of quantum wells and dots*, Phys. Rev. B **44**, 6199 (1991).

- [92] K. Blum, *Density Matrix Theory and Applications*, ch. 7. Plenum Press, New York, 1981.
- [93] W. J. Anderson, *Continuous-Time Markov Chains – An Applications-Oriented Approach*. Springer-Verlag, New York/Berlin, 1991.
- [94] C. W. Gardiner, *Handbook of Stochastic Methods*. Springer-Verlag, Berlin/Heidelberg, 3rd ed., 2004.
- [95] W. Schottky, *Über spontane Stromschwankungen in verschiedenen Elektrizitätsleitern*, Ann. Phys. **57**, 541 (1918).
- [96] Y. M. Blanter and M. Büttiker, *Shot Noise in Mesoscopic Conductors*, Phys. Rep. **336**, 1 (2000).
- [97] V. V. Kuznetsov, E. E. Mendez, J. D. Bruno, and J. T. Pham, *Shot noise enhancement in resonant-tunneling structures in a magnetic field*, Phys. Rev. B **58**, R10159 (1998).
- [98] C. Flindt, T. Novotny, and A.-P. Jauho, *Current noise in a vibrating quantum dot array*, Phys. Rev. B **70**, 205334 (2004).
- [99] A. Cottet, W. Belzig, and C. Bruder, *Positive cross-correlations due to dynamical channel blockade in a three-terminal quantum dot*, Phys. Rev. B **70**, 115315 (2004).
- [100] Y. V. Nazarov and J. J. R. Struben, *Universal excess noise in resonant tunneling via strongly localized states*, Phys. Rev. B **53**, 15466 (1996).
- [101] L. S. Levitov and G. B. Lesovik, *Charge distribution in quantum shot noise*, JETP Lett. **58**, 230 (1993).
- [102] L. S. Levitov and M. Reznikov, *Counting statistics of tunneling current*, Phys. Rev. B **70**, 115305 (2004 and references therein).
- [103] U. Gavish, Y. Imry, Y. Levinson, and B. Yurke, “What quantity is measured in an excess noise experiment?”, in *Quantum Noise in Mesoscopic Physics* (Y. V. Nazarov, ed.), Kluwer, Dordrecht, 2003.
- [104] M. Kindermann, Y. V. Nazarov, and C. W. J. Beenakker, *Manipulation of photon statistics of highly degenerate chaotic radiation*, Phys. Rev. Lett **88**, 063601 (2002).
- [105] M. Kindermann, Y. V. Nazarov, and C. W. J. Beenakker, *Feedback of the electromagnetic environment on current and voltage fluctuations out of equilibrium*, Phys. Rev. B **69**, 035336 (2004).
- [106] J. Holtsmark, *Über die Verbreiterung von Spektrallinien*, Ann. Phys. (Leipzig) **58**, 577 (1919).
- [107] E. M. Weig, R. H. Blick, T. Brandes, J. Kirschbaum, W. Wegscheider, M. Bichler, and J. P. Kotthaus, *Single-Electron-Phonon Interaction in a Suspended Quantum Dot Phonon Cavity*, Phys. Rev. Lett. **92**, 046804 (2004).

- [108] K. P. Huber and G. Herzberg, *Molecular Spectra and Molecular Structure*, IV. Van Nostrand Reinhold Company, New York, 1979.
- [109] P. M. Morse, *Diatomic Molecules according to the wave mechanics. II. Vibrational levels*, Phys. Rev. **34**, 57 (1929).
- [110] F. Iachello and M. Ibrahim, *Analytic and Algebraic Evaluation of Franck-Condon Overlap Integrals*, J. Phys. Chem. A **102**, 9427 (1998).
- [111] Paul McEuen, private communication (2005).
- [112] O. Agam, N. S. Wingreen, B. L. Altshuler, D. C. Ralph, and M. Tinkham, *Chaos, Interactions, and Nonequilibrium Effects in the Tunneling Resonance Spectra of Ultrasmall Metallic Particles*, Phys. Rev. Lett. **78**, 1956 (1997).
- [113] T. Seideman, *Current-driven dynamics in molecular-scale devices*, J. Phys.: Condens. Matter **15**, R521 (2003).
- [114] B. C. Stipe, M. A. Rezaei, W. Ho, S. Gao, M. Persson, and B. I. Lundqvist, *Single-Molecule Dissociation by Tunneling Electrons*, Phys. Rev. Lett. **78**, 004410 (1997).
- [115] R. Lemus, J. M. Arias, and J. Gómez-Camacho, *An $su(1,1)$ dynamical algebra for the Morse potential*, J. Phys. A **37**, 1805 (2004).
- [116] C. W. J. Beenakker and A. A. M. Staring, *Theory of the thermopower of a quantum dot*, Phys. Rev. B **46**, 9667 (1992).
- [117] A. A. M. Staring, L. W. Molenkamp, B. W. Alphenaar, H. van Houten, O. J. A. Buyk, M. A. A. Mabeoone, C. W. J. Beenakker, and C. T. Foxon, *Coulomb-Blockade Oscillations in the Thermopower of a Quantum Dot*, Europhys. Lett. **22**, 57 (1993).
- [118] K. A. Matveev and A. V. Andreev, *Thermopower of a single-electron transistor in the regime of strong inelastic cotunneling*, Phys. Rev. B **66**, 045301 (2002).
- [119] P. W. Anderson, *Localized Magnetic States in Metals*, Phys. Rev. **124**, 41 (1961).
- [120] C. Kraiya and D. H. Evans, *Investigation of potential inversion in the reduction of 9,10-dinitroanthracene and 3,6-dinitrodurene*, J. Electroanal. Chem. **565**, 29 (2004).
- [121] S. Kubatkin, A. Danilov, M. Hjort, J. Cornil, J.-L. Brédas, N. Stuhr-Hansen, and P. Hedeg, *Single-electron transistor of a single organic molecule with access to several redox states*, Nature (London) **425**, 698 (2002).
- [122] A. Taraphder and P. Coleman, *Heavy-fermion behavior in a negative- U Anderson model*, Phys. Rev. Lett. **66**, 2814 (1991).
- [123] P. S. Cornaglia, H. Ness, and D. R. Grempel, *Many-Body Effects on the Transport Properties of Single-Molecule Devices*, Phys. Rev. Lett. **93**, 147201 (2004).
- [124] L. Arrachea and M. J. Rozenberg, *Quantum Monte Carlo method for models of molecular nanodevices*, Phys. Rev. B **72**, 041301(R) (2005).

- [125] J. Mravlje, A. Ramšak, and T. Rejec, *Conductance of deformable molecules with interaction*, Phys. Rev. B **72**, 121403(R) (2005).
- [126] J. R. Schrieffer and P. A. Wolff, *Relation between the Anderson and Kondo Hamiltonians*, Phys. Rev. **149**, 491 (1966).
- [127] H.-B. Schüttler and A. J. Fedro, *Effective strong-coupling Hamiltonians for bipolaron centers and magnetic impurities with on-site electron-phonon coupling*, Phys. Rev. B **38**, 9063 (1988).
- [128] P. W. Anderson, *Model for the Electronic Structure of Amorphous Semiconductors*, Phys. Rev. Lett. **34**, 953 (1975).
- [129] L. I. Glazman and M. E. Raikh, *Resonant Kondo transparency of a barrier with quasilocal impurity states*, JETP Lett. **47**, 452 (1988).
- [130] P. W. Anderson, *A poor man's derivation of scaling laws for the Kondo problem*, J. Phys. C. **3**, 2436 (1970).
- [131] P. W. Anderson, *Ground State of a Magnetic Impurity in a Metal*, Phys. Rev. **164**, 352 (1967).
- [132] K. Yosida, *Bound State Due to the s-d Exchange Interaction*, Phys. Rev. **147**, 223 (1966).
- [133] A. Yoshimori, *Closed-Form Solution for the Collective Bound State due to the s-d Exchange Interaction*, Phys. Rev. **168**, 493 (1968).
- [134] P. Nozières, *A Fermi-Liquid Description of the Kondo Problem at Low Temperatures*, J. Low Temp. Phys. **17**, 31 (1974).
- [135] P. Nozières, *The Kondo problem: Fancy mathematical techniques versus simple physical ideas* in *Proceedings of the 14th International Conference on Low Temperature Physics, vol. 5* (M. Krusius and M. Vuorio, eds.), North-Holland, Amsterdam, 1975.
- [136] A. M. Tsvelick and P. B. Wiegmann, *Exact results in the theory of magnetic alloys*, Adv. Phys. **32**, 453 (1983).
- [137] F. W. J. Hekking, L. I. Glazman, K. A. Matveev, and R. I. Shekhter, *Coulomb blockade of two-electron tunneling*, Phys. Rev. Lett. **70**, 4138 (1993).
- [138] T. Holstein, *Studies of the Polaron Motion, Part I. The Molecular-Crystal Model*, Ann. Phys. (New York) **8**, 325 (1959).
- [139] G. D. Mahan, *Many-Particle Physics*, ch. 4.3. Plenum Press, New York, 1990.
- [140] A. C. Hewson, *The Kondo Problem to Heavy Fermions*, ch. 1.7. Cambridge University Press, Cambridge, 1993.
- [141] H. Bruus and K. Flensberg, *Many-Body Quantum Theory in Condensed Matter Physics*, ch. 10.4. Oxford University Press, Oxford, 2004.

-
- [142] A. Matsumoto, *Generalised matrix elements in discrete and continuum states for the Morse potential*, J. Phys. B **21**, 2863 (1988).
- [143] W. H. Press, S. A. Teukolsky, W. T. Vetterling, and B. P. Flannery, *Numerical Recipes in C*, ch. 7.2. Cambridge University Press, Cambridge, 1999.
- [144] J. C. Lopez, A. L. Rivera, Y. F. Smirnov, and A. Frank, *Simple evaluation of Franck-Condon factors and non-Condon effects in the Morse potential*, Int. J. Quant. Chem. **88**, 280 (2002).
- [145] J. Koch, F. von Oppen, Y. Oreg, and E. Sela, *Thermopower of Single-Molecule Devices*, Phys. Rev. B **70**, 195107 (2004).