



## Bibliography

- [Ag-01] T. Agasa, L. Benet, T. Rupp, and H.A. Weidenmüller, Eur. Phys. Lett. **56**, 340 (2001).
- [Ag-02] T. Agasa, L. Benet, T. Rupp, and H.A. Weidenmüller, Ann. Phys. (N.Y.) **298**, 229 (2002).
- [Al-91] Y. Alhassid and N. Whelan, Phys. Rev. Lett. **67**, 816 (1991).
- [Al-00] Y. Alhassid, Ph. Jacquod, and A. Wobst, Phys. Rev. B **61**, R13357 (2000).
- [Al-00a] Y. Alhassid, Rev. Mod. Phys. **72**, 895 (2000).
- [Al-01] Y. Alhassid, Ph. Jacquod, and A. Wobst, Physica E **9**, 393 (2001).
- [Al-01a] Y. Alhassid and A. Wobst, Phys. Rev. B **65**, 041304 (2001).
- [Al-05] Y. Alhassid, H.A. Weidenmüller, and A. Wobst, Phys. Rev. B **72**, 045318 (2005).
- [Al-03] E. Altman, W. Hofstetter, E. Demler, and M.D. Lukin, New J. Phys. **5**, 113 (2003).
- [An-10] G.W. Anderson, A. Guionnet, and O. Zeitouni, *An Introduction to Random Matrices* (Cambridge University Press, New York, 2010).
- [An-03] D. Angom and V.K.B. Kota, Phys. Rev. A **67**, 052508 (2003).
- [An-04] D. Angom, S. Ghosh, and V.K.B. Kota, Phys. Rev. E **70**, 016209 (2004).
- [An-05] D. Angom and V.K.B. Kota, Phys. Rev. A **71**, 042504 (2005).
- [An-05a] D. Angom and V.K.B. Kota, in the proceedings of the 3rd national conference on “Nonlinear Systems and Dynamics”, edited by M. Lakshmanan and R. Sahadevan (Chennai, India, 2006); [http://www.cts.iitkgp.ernet.in/cts\\_html/ncnsd/paper06/125.pdf](http://www.cts.iitkgp.ernet.in/cts_html/ncnsd/paper06/125.pdf).
- [Ay-74] S. Ayik and J.N. Ginocchio, Nucl. Phys. A **221**, 285 (1974).
- [Ba-92] M.S. Bae, T. Otsuka, T. Mizusaki, and N. Fukunishi, Phys. Rev. Lett. **69**, 2349 (1992).
- [Ba-10] Z. Bai and J.W. Silverstein, *Spectral Analysis of Large Dimensional Random Matrices*, Second edition (Springer, New York, 2010).
- [Be-01] G. Benenti, G. Casati, and D.L. Shepelyansky, Euro. Phys. J. D **17**, 265 (2001).
- [Be-01a] L. Benet, T. Rupp, and H.A. Weidenmüller, Ann. Phys. **292**, 67 (2001).

- [Be-01b] L. Benet, T. Rupp, and H.A. Weidenmüller, Phys. Rev. Lett. **87**, 010601 (2001)
- [Be-03] L. Benet and H.A. Weidenmüller, J. Phys. A **36**, 3569 (2003).
- [Be-77] M.V. Berry and M. Tabor, Proc. R. Soc. London, Ser. A **356**, 375 (1977).
- [Be-81] M.V. Berry, Ann. Phys. (N.Y.) **131**, 163 (1981).
- [Bi-82] R.P. Bickerstaff, P.H. Butler, M.B. Butts, R.W. Haase, and M.F. Reid, J. Phys. A: Math. Gen. **15**, 1087 (1982).
- [Bi-68] L.C. Biedenharn and J.D. Louck, Comm. Math. Phys. **8**, 89 (1968).
- [Bi-00] R. Bijker and A. Frank, Phys. Rev. Lett. **84**, 420 (2000).
- [Bi-01] R. Bijker and A. Frank, Phys. Rev. C **64**, 061303 (2001).
- [Bl-87] R. Le Blanc and K.T. Hecht, J. Phys. A: Math. Gen. **20**, 4613 (1987).
- [Bo-92] F. Boehm and P. Vogel, *Physics of Massive Neutrinos*, Second edition (Cambridge University Press, Cambridge, 1992).
- [Bo-71] O. Bohigas and J. Flores, Phys. Lett. B **34**, 261 (1971).
- [Bo-83] O. Bohigas, R.U. Haq, and A. Pandey, in: *Nuclear Data for Science and Technology*, edited by K.H. Böckhoff (Reidel, Dordrecht, 1983), p. 809.
- [Bo-84] O. Bohigas, M.-J. Giannoni, and C. Schmit, J. Physique Lett. **45**, L-1015 (1984).
- [Bo-84a] O. Bohigas, M.-J. Giannoni, and C. Schmit, Phys. Rev. Lett. **52**, 1 (1984).
- [Bo-36] N. Bohr, Nature (London) **137**, 344 (1936).
- [Bo-98a] F. Borgonovi, I. Guarneri, and F.M. Izrailev, Phys. Rev. E **57**, 5291 (1998).
- [Bo-98b] F. Borgonovi, I. Guarneri, F.M. Izrailev, and G. Casati, Phys. Lett. A **247**, 140 (1998).
- [Br-06] Proceedings of the NATO Advanced Study Institute on *Applications of Random Matrices in Physics*, edited by É. Brézin, V. Kazakov, D. Serban, P. Wiegmann, and A. Zabrodin (Springer, The Netherlands, 2006).
- [Br-94] D.M. Brink and G. R. Satchler, *Angular Momentum*, Third edition (Oxford University Press, USA, 1994).
- [Br-81] T.A. Brody, J. Flores, J.B. French, P.A. Mello, A. Pandey, and S.S.M. Wong, Rev. Mod. Phys. **53**, 385 (1981).
- [Br-08] W.G. Brown, L.F. Santos, D.J. Starling, and L. Viola, Phys. Rev. E **77**, 021106 (2008).
- [Bu-81] P.H. Butler, *Point Group Symmetry Applications: Methods and Tables* (Plenum Press, New York, 1981).
- [Ca-00] E. Canetta and G. Maino, Phys. Lett. B **483**, 55 (2000).
- [Ca-05] M.A. Caprio and F. Iachello, Ann. Phys. (N.Y.) **318**, 454 (2005).

- [Ca-80] G. Casati, F. Valz-Gris and I. Guarneri, Lett. Nuovo Cimento Soc. Ital. Fis. **28**, 279 (1980).
- [Ca-90] G. Casati, F.M. Izrailev, and L. Molinari, Phys. Rev. Lett. **64**, 1851 (1990).
- [Ca-93] G. Casati, B.V. Chirikov, I. Guarneri, and F.M. Izrailev, Phys. Rev. E **48**, R1613 (1993).
- [Ca-09] A.C. Cassidy, D. Mason, V. Dunjko, and M. Olshanii, Phys. Rev. Lett. **102**, 025302 (2009).
- [Ch-71] E.S. Chang, J.B. French, and T.H. Thio, Ann. Phys. (N.Y.) **66**, 137 (1971).
- [Ch-78] B.D. Chang and S.S.M. Wong, Nucl. Phys. A **294**, 19 (1978).
- [Ch-03] N.D. Chavda, V. Potbhare, and V.K.B. Kota, Phys. Lett. A **311**, 331 (2003).
- [Ch-04] N.D. Chavda, V. Potbhare, and V.K.B. Kota, Phys. Lett. A **326**, 47 (2004).
- [Ch-10] N.D. Chavda, *Two-body Random Matrix Ensembles for Boson Systems with Spin*, in the proceedings of the National Seminar on “New Frontiers in Nuclear, Hadron and Mesoscopic Physics”, edited by V.K.B. Kota and A. Pratap (Allied Publishers, New Delhi, 2010), p. 38-50.
- [Co-82] A. Cortes, R.U. Haq, and A.P. Zuker, Phys. Lett. **B115**, 1 (1982).
- [Cu-01] A. Cummings, G. O’Sullivan, and D.M. Heffernan, J. Phys. B **34**, 3407 (2001).
- [Cv-82] P. Cvitanovic and A.D. Kennedy, Phys. Scr. **26**, 5 (1982).
- [Da-80] B.J. Dalton, S.M. Grimes, J.P. Vary, and S.A. Williams (ed.), *Moment Methods in Many Fermion Systems* (Plenum, New York, 1980).
- [De-91] J.M. Deutsch, Phys. Rev. A **43**, 2046 (1991).
- [Do-93] M. Doi and T. Kotani, Prog. Theo. Phys. **89**, 139 (1993).
- [Dr-77] J.P. Draayer, J.B. French, and S.S.M. Wong, Ann. Phys. (N.Y.) **106**, 472 (1977).
- [Dy-62] F.J. Dyson, J. Math. Phys. **3**, 140 (1962).
- [Dy-63] F.J. Dyson and M.L. Mehta, J. Math. Phys. **4**, 701 (1963).
- [Ed-74] A.R. Edmonds, *Angular Momentum in Quantum Mechanics* (Princeton, New Jersey, 1974).
- [El-02] S.R. Elliot and P. Vogel, Ann. Rev. Nucl. Part. Sci. **52**, 115 (2002).
- [El-58] J.P. Elliott, Proc. R. Soc. London **A245**, 128, 562 (1958).
- [Fe-91] M. Feingold, D.M. Leitner, and M. Wilkinson, Phys. Rev. Lett. **66**, 986 (1991).
- [Fl-94] V.V. Flambaum, A.A. Gribakina, G.F. Gribakin, and M.G. Kozlov, Phys. Rev. A **50**, 267 (1994).
- [Fl-96] V.V. Flambaum, G.F. Gribakin, and F.M. Izrailev, Phys. Rev. E **53**, 5729 (1996).
- [Fl-96a] V.V. Flambaum, F.M. Izrailev, and G. Casati, Phys. Rev. E **54**, 2136 (1996).

- [Fl-97] V.V. Flambaum and F.M. Izrailev, Phys. Rev. E **56**, 5144 (1997).
- [Fl-98] V.V. Flambaum, A.A. Gribakina, and G.F. Gribakin, Phys. Rev. A **58**, 230 (1998).
- [Fl-99] V.V. Flambaum, A.A. Gribakina, G.F. Gribakin, and I.V. Ponomarev, Physica D **131**, 205 (1999).
- [Fl-00] J. Flores, M. Horoi, M. Müller, and T.H. Seligman, Phys. Rev. E **63**, 026204 (2000).
- [Fl-52] B.H. Flowers, Proc. Royal Soc. (London) **A212**, 248 (1952).
- [Fl-64] B.H. Flowers and S. Szpikowski, Proc. Phys. Soc. **84**, 193 (1964).
- [Fo-10] P.J. Forrester, *Log-Gases and Random Matrices* (Princeton University Press, USA, 2010).
- [Fr-96] N. Frazier, B.A. Brown, and V. Zelevinsky, Phys. Rev. C **54**, 1665 (1996).
- [Fr-95] J.B. French, in *A Gift of Prophecy - Essays in the Celebration of the Life of R.E. Marshak*, edited by E.C.G. Sudarshan (World Scientific, Singapore, 1995), p. 156.
- [Fr-69] J.B. French, in *Isospin in Nuclear Physics*, edited by D.H. Wilkinson (North Holland, Amsterdam, 1969), p. 259.
- [Fr-70] J.B. French and S.S.M. Wong, Phys. Lett. B **33**, 449 (1970).
- [Fr-71] J.B. French and K.F. Ratcliff, Phys. Rev. C **3**, 94 (1971).
- [Fr-71a] J.B. French and S.S.M. Wong, Phys. Lett. B **35**, 5 (1971).
- [Fr-80] J.B. French, in *Moment Methods in Many Fermion Systems*, edited by B.J. Dalton, S.M. Grimes, J.P. Vary, and S.A. Williams (Plenum, New York, 1980), p. 91.
- [Fr-82] J.B. French and V.K.B. Kota, Ann. Rev. Nucl. Part. Sci. **32**, 35 (1982).
- [Fr-83] J.B. French and V.K.B. Kota, Phys. Rev. Lett. **51**, 2183 (1983).
- [Fr-88] J.B. French, V.K.B. Kota, A. Pandey, and S. Tomsovic, Ann. Phys. (N.Y.) **181**, 235 (1988).
- [Fr-06] J.B. French, S. Rab, J.F. Smith, R.U. Haq, and V.K.B. Kota, Can. J. Phys. **84**, 677 (2006).
- [Fy-91] Y.V. Fyodorov and A.D. Mirlin, Phys. Rev. Lett. **67**, 2405 (1991).
- [Fy-92] Y.V. Fyodorov and A.D. Mirlin, Phys. Rev. Lett. **69**, 1093 (1992).
- [Ga-99] J.E. García-Ramos and P. Van Isacker, Ann. Phys. (N.Y.) **274**, 45 (1999).
- [Ge-00] B. Georgeot and D.L. Shepelyansky, Phys. Rev. E **62**, 6366 (2000).
- [Ge-97] B. Georgeot and D.L. Shepelyansky, Phys. Rev. Lett. **79**, 4365 (1997).
- [Ge-68] A. Gervois, Phys. Lett. **B26**, 413 (1968).
- [Gi-80] J.N. Ginocchio, in *Moment Methods in Many Fermion Systems*, edited by B.J. Dalton, S.M. Grimes, J.P. Vary, and S.A. Williams (Plenum, New York, 1980), pp. 109.

- [Gl-05] S. Gliske, W.H. Klink, and T. Ton-That, *Acta Appl. Math.* **88**, 229 (2005).
- [Go-01] J.M.G. Gómez, K. Kar, V.K.B. Kota, J. Retamosa, and R. Sahu, *Phys. Rev. C* **64**, 034305 (2001).
- [Go-03] J.M.G. Gómez, K. Kar, V.K.B. Kota, R.A. Molina, and J. Retamosa, *Phys. Lett. B* **567**, 251 (2003).
- [Go-04] J.M.G. Gómez, K. Kar, V.K.B. Kota, R.A. Molina, and J. Retamosa, *Phys. Rev. C* **69**, 057302 (2004).
- [Go-11] J.M.G. Gómez, K. Kar, V.K.B. Kota, R.A. Molina, A. Relaño, and J. Retamosa, *Phys. Rep.* **499**, 103 (2011).
- [Gr-95] A.A. Gribankina, V.V. Flambaum, and G.F. Gribakin, *Phys. Rev. E* **52**, 5667 (1995).
- [Gr-95a] S.M. Grimes and T.N. Massey, *Phys. Rev. C* **51**, 606 (1995).
- [Gu-89] T. Guhr and H.A. Weidenmüller, *Ann. Phys.* **193**, 472 (1989).
- [Gu-98] T. Guhr, A. Müller-Groeling, and H. A. Weidenmüller, *Phys. Rep.* **299**, 189 (1998).
- [Ha-10] F. Haake, *Quantum Signatures of Chaos*, Third edition (Springer-Verlag, Heidelberg, 2010).
- [Ha-82] T.R. Halemene and J.B. French, *Phys. Rev. C* **25**, 2029 (1982).
- [Ha-62] M. Hamermesh, *Group Theory and its Application to Physical Problems* (Addison-Wesley, New York, 1962).
- [Ha-82a] R.U. Haq, A. Pandey, and O. Bohigas, *Phys. Rev. Lett.* **48**, 1086 (1982).
- [He-65] K.T. Hecht, *Nucl. Phys.* **63**, 177 (1965).
- [He-69] K.T. Hecht and S.C. Pang, *J. Math. Phys.* **10**, 1571 (1969).
- [He-74] K.T. Hecht and J.P. Draayer, *Nucl. Phys. A* **223**, 285 (1974).
- [He-74a] K.T. Hecht, *J. Math. Phys.* **15**, 2148 (1974).
- [He-07] S. Heusler, S. Müller, A. Altland, P. Braun, and F. Haake, *Phys. Rev. Lett.* **98**, 044103 (2007).
- [Ho-95] M. Horoi, V. Zelevinsky, and B.A. Brown, *Phys. Rev. Lett.* **74**, 5194 (1995).
- [Ho-07] M. Horoi and V. Zelevinsky, *Phys. Rev. C* **75**, 054303 (2007).
- [Ho-10] M. Horoi and V. Zelevinsky, *Phys. Rev. C* **81**, 034306 (2010).
- [Im-97] Y. Imry, *Introduction to Mesoscopic Physics* (Oxford University Press, New York, 1997).
- [Ja-79] C. Jacquemin and S. Spitz, *J. Phys. G* **5**, L95 (1979).
- [Ja-79a] C. Jacquemin and S. Spitz, *Z. Phys. A* **290**, 251 (1979).

- [Ja-97] Ph. Jacquod and D.L. Shepelyansky, Phys. Rev. Lett. **79**, 1837 (1997).
- [Ja-00] Ph. Jacquod and A.D. Stone, Phys. Rev. Lett. **84**, 3938 (2000).
- [Ja-01] Ph. Jacquod and A.D. Stone, Phys. Rev. B **64**, 214416 (2001).
- [Ja-02] Ph. Jacquod and I.A. Varga, Phys. Rev. Lett. **89**, 134101 (2002).
- [Ja-81] G. James and A. Kerber, *The Representation Theory of the Symmetric Group* (Addison-Wesley, New York, 1981).
- [Ja-01a] M. Janssen, *Fluctuations and Localization in Mesoscopic Electron Systems* (World Scientific Publishing Co. Pte. Ltd., Singapore, 2001).
- [Jo-98] C.W. Johnson, G.F. Bertsch, and D.J. Dean, Phys. Rev. Lett. **80**, 2749 (1998).
- [Ka-00] L. Kaplan, T. Papenbrock, and C.W. Johnson, Phys. Rev. C **63**, 014307 (2000).
- [Ka-94] J. Karwowski, Int. J. Quantum Chem. **51**, 425 (1994).
- [Ka-95] J. Karwowski, F. Rajadell, J. Planelles, and V. Mas, Atomic Data and Nuclear Data Tables **61**, 177 (1995).
- [Ki-07] M.W. Kirson and J.A. Mizrahi, Phys. Rev. C **76**, 064305 (2007).
- [Kl-09] W.H. Klink and T. Ton-That, Notices of the AMS, September (2009), p. 931.
- [Ko-79] V.K.B. Kota, Phys. Rev. C **20**, 347 (1979).
- [Ko-79a] V.K.B. Kota, J. de Physique-Letters **40**, L-579 (1979).
- [Ko-80] V.K.B. Kota and V. Potbhare, Phys. Rev. C **21**, 2637 (1980).
- [Ko-81] V.K.B. Kota, Ann. Phys. (N.Y.) **134**, 221 (1981).
- [Ko-84] V.K.B. Kota, Z. Phys. A **315**, 91 (1984).
- [Ko-89] V.K.B. Kota and K. Kar, Pramana-J. Phys. **32**, 647 (1989).
- [Ko-95] V.K.B. Kota and D. Majumdar, Z. Phys. A **351**, 377 (1995).
- [Ko-96] V.K.B. Kota, Ann. Phys. (N.Y.) **265**, 101 (1998).
- [Ko-98] V.K.B. Kota and R. Sahu, Phys. Lett. B **429**, 1 (1998).
- [Ko-99] V.K.B. Kota, D. Majumdar, R.U. Haq, and R.J. Leclair, Can. J. Phys. **77**, 893 (1999).
- [Ko-99a] V.K.B. Kota, R. Sahu, K. Kar, J.M.G. Gómez, and J. Retamosa, Phys. Rev. C **60**, 051306 (1999).
- [Ko-99b] V.K.B. Kota and S. Sumedha, Phys. Rev. E **60**, 3405 (1999).
- [Ko-00] V.K.B. Kota and R. Sahu, Phys. Rev. E **62**, 3568 (2000).
- [Ko-01] V.K.B. Kota, Phys. Rep. **347**, 223 (2001).
- [Ko-01a] V.K.B. Kota and R. Sahu, Phys. Rev. E **64**, 016219 (2001).

- [Ko-02] V.K.B. Kota and R. Sahu, Phys. Rev. E **66**, 037103 (2002).
- [Ko-02a] V.K.B. Kota and K. Kar, Phys. Rev. E **65**, 026130 (2002).
- [Ko-03] V.K.B. Kota, Ann. Phys. (N.Y.) **306**, 58 (2003).
- [Ko-04] V.K.B. Kota, High Energy Phys. and Nucl. Phys. (China) **28**, 1307 (2004).
- [Ko-05] V.K.B. Kota, J. Math. Phys. **46**, 033514 (2005).
- [Ko-06] V.K.B. Kota, N.D. Chavda, and R. Sahu, Phys. Lett. A **359**, 381 (2006).
- [Ko-06a] V.K.B. Kota, Int. J. Mod. Phys. E **15**, 1869 (2006).
- [Ko-06b] V.K.B. Kota and J.A. Castilho Alcarás, Nucl. Phys. A **764**, 181 (2006).
- [Ko-06c] V.K.B. Kota, in *Focus on Boson Research*, edited by A.V. Ling (Nova Science Publishers Inc., New York, 2006), p. 57-105.
- [Ko-07] V.K.B. Kota, J. Math. Phys. **48**, 053304 (2007).
- [Ko-07a] V.K.B. Kota, Prog. Theo. Phys. **118**, 893 (2007).
- [Ko-08] V.K.B. Kota, Manan Vyas, and K.B.K. Mayya, Int. J. Mod. Phys. E **17**, 318 (2008).
- [Ko-08a] V.K.B. Kota, *Nuclear Models and Statistical Spectroscopy for Double-Beta Decay*, in 'Neutrinoless Double Beta Decay', edited by V.K.B. Kota and U. Sarkar (Narosa Publishing House, New Delhi, India, 2008).
- [Ko-10] V.K.B. Kota and R.U. Haq, *Spectral Distributions in Nuclei and Statistical Spectroscopy* (World Scientific, Singapore, 2010).
- [Ko-11] V.K.B. Kota, A. Relaño, J. Retamosa, and Manan Vyas, arXiv:1102.0528.
- [Ku-67] T.T.S. Kuo, Nucl. Phys. A**103**, 71 (1967).
- [Ku-97] D. Kusnezov, Phys. Rev. Lett. **79**, 537 (1997).
- [Ku-00] D. Kusnezov, Phys. Rev. Lett. **85**, 3773 (2000).
- [Le-08] R.J. Leclair, R.U. Haq, V.K.B. Kota, and N.D. Chavda, Phys. Lett. A **372**, 4373 (2008).
- [Le-94] C.H. Lewenkopf and V.G. Zelevinsky, Nucl. Phys. A **569**, 183c (1994).
- [Li-90] X. Li and J. Paldus, J. Math. Phys. **31**, 1589 (1990).
- [Lo-70] J.D. Louck, Am. J. Phys. **38**, 3 (1970).
- [Lo-70a] J.D. Louck and L.C. Biedenharn, J. Math. Phys. **11**, 2368 (1970).
- [Lu-01] S. Lüscher, T. Heinzel, K. Ensslin, W. Wegscheider, and M. Bichler, Phys. Rev. Lett. **86**, 2118 (2001).
- [Ma-07] D. Majumdar and K. Kar, Pramana-J. Phys. **68**, 423 (2007).
- [Ma-98] D. Majumdar, K. Kar and A. Ansari, J. Phys. G **24**, 2103 (1998).

- [Ma-09] Manan Vyas, V.K.B. Kota, and N.D. Chavda, Phys. Lett. A **373**, 1434 (2009).
- [Ma-09a] Manan Vyas and V.K.B. Kota, in the proceedings of the conference on “Non-Hermitian Hamiltonians in Quantum Physics”, edited by S.R. Jain and Z. Ahmed, Pramana-J. Phys. **73**, 521 (2009).
- [Ma-10] Manan Vyas, *Random Interaction Matrix Ensembles in Mesoscopic Physics*, in the proceedings of the National Seminar on “New Frontiers in Nuclear, Hadron and Mesoscopic Physics”, edited by V.K.B. Kota and A. Pratap (Allied Publishers, New Delhi, 2010), p. 23-37; arXiv:1004.2761.
- [Ma-10a] Manan Vyas, V.K.B. Kota, and N.D. Chavda, Phys. Rev. E **81**, 036212 (2010).
- [Ma-10b] Manan Vyas and V.K.B. Kota, Ann. Phys. (N.Y.) **325**, 2451 (2010).
- [Ma-10c] Manan Vyas and V.K.B. Kota, Euro. Phys. J. A **45**, 111 (2010).
- [Ma-11] Manan Vyas, V.K.B. Kota, N.D. Chavda, and V. Potbhare, arXiv:1010.6054.
- [Ma-11a] Manan Vyas, V.K.B. Kota, and P.C. Srivastava, accepted for publication in Physical Review C; arXiv:1101.1711.
- [Ma-67] V.A. Marčenko and L.A. Pastur, Math. USSR-Sbornik **1**, 457 (1967).
- [Mc-79] S.W. McDonald and A.N. Kaufman, Phys. Rev. Lett. **42**, 1189 (1979).
- [Me-04] M.L. Mehta, *Random Matrices*, Third edition (Elsevier B.V., The Netherlands, 2004).
- [Me-05] C. Mejía-Monasterio, G. Benenti, G.G. Carlo, and G. Casati, Phys. Rev. A **71**, 062324 (2005).
- [Mi-10] G.E. Mitchell, A. Richter, and H. A. Weidenmüller, Rev. Mod. Phys. **82**, 2845 (2010),
- [Mi-00] A.D. Mirlin, Phys. Rep. **326**, 259 (2000).
- [Mo-07] D. Mocelj, T. Rauscher, G. Martínez-Pinedo, K. Langanke, L. Pacearescu, A. Faessler, F.-K. Thielemann, and Y. Alhassid, Phys. Rev. C **75**, 045805 (2007).
- [Mo-73] K.K. Mon, B.A. Dissertation, Princeton University, 1973.
- [Mo-75] K.K. Mon and J.B. French, Ann. Phys. (N.Y.) **95**, 90 (1975).
- [Mo-06] S. Montangero and L. Viola, Phys. Rev. A **73**, 040302(R) (2006).
- [Mu-02] D. Mulhall, Ph.D. Thesis, Michigan State University, 2002.
- [Mu-00] D. Mulhall, A. Volya and V. Zelevinsky, Phys. Rev. Lett. **85**, 4016 (2000).
- [Mu-06] L. Muñoz, E. Faleiro, R.A. Molina, A. Relaño, and J. Retamosa, Phys. Rev. E **73**, 036202 (2006).
- [Na-01] R.C. Nayak and V.K.B. Kota, Phys. Rev. C **64**, 057303 (2001).
- [Ne-29] J. von Neumann and E.P. Wigner, Phys. Z. **30**, 462 (1929).
- [No-72] M. Nomura, Prog. Theo. Phys. **48**, 110 (1972).

- [No-86] M. Nomura, J. Math. Phys. **27**, 536 (1986).
- [No-09] F. Nowacki and A. Poves, Phys. Rev. C **79**, 014310 (2009).
- [Ol-09] M. Olshanii and V. Yurovsky, arxiv:0911.5587.
- [Pa-81] A. Pandey, Ann. Phys. (N.Y.) **134**, 110 (1981).
- [Pa-02] T. Papenbrock, L. Kaplan, and G.F. Bertsch, Phys. Rev. B **65**, 235120 (2002).
- [Pa-04] T. Papenbrock and H.A. Weidenmüller, Phys. Rev. Lett. **93**, 132503 (2004).
- [Pa-05] T. Papenbrock and H.A. Weidenmüller, Nucl. Phys. A **757**, 422 (2005).
- [Pa-06] T. Papenbrock and H.A. Weidenmüller, Phys. Rev. C **73**, 014311 (2006).
- [Pa-07] T. Papenbrock and H.A. Weidenmüller, Rev. Mod. Phys. **79**, 997 (2007).
- [Pa-08] T. Papenbrock and H.A. Weidenmüller, Phys. Rev. C **78**, 054305 (2008).
- [Pa-11] T. Papenbrock, Z. Pluhař, J. Tithof, and H. A. Weidenmüller, Phys. Rev. E **83**, 031130 (2011).
- [Pa-72] J.C. Parikh and S.S.M. Wong, Nucl. Phys. A **182**, 593 (1972).
- [Pa-65] J.C. Parikh, Nucl. Phys. **63**, 214 (1965).
- [Pa-73] J.C. Parikh, Ann. Phys. **76**, 202 (1973).
- [Pa-78] J.C. Parikh, *Group Symmetries in Nuclear Structure* (Plenum, New York, 1978).
- [Pa-78a] J.C. Parikh, J. Phys. B **11**, 1881 (1978).
- [Pa-98] S.R. Patel, D.R. Stewart, C.M. Marcus, M. Gökçedağ, Y. Alhassid, A.D. Stone, C.I. Duruöz, and J.S. Harris, Jr., Phys. Rev. Lett. **80**, 4522 (1998).
- [Pa-00] K. Patel, M.S. Desai, V. Potbhare, and V.K.B. Kota, Phys. Lett. A **275**, 329 (2000).
- [Pe-10] G. Pelka, K. Byczuk, and J. Tworzydlo, arXiv:1008.0529.
- [Pi-07] I. Pižorn, T. Prosen, and T.H. Seligman, Phys. Rev. B **76**, 035122 (2007).
- [Pi-08] I. Pižorn, T. Prosen, S. Mossmann, and T.H. Seligman, New J. Phys. **10**, 023020 (2008).
- [Pl-96] J. Planelles, F. Rajadell, J. Karwowski, and V. Mas, Phys. Rep. **267**, 161 (1996).
- [Pl-97] J. Planelles, F. Rajadell, and J. Karwowski, J. Phys. A **30**, 2181 (1997).
- [Pl-02] Z. Pluhař and H.A. Weidenmüller, Ann. Phys. (N.Y.) **297**, 344 (2002).
- [Po-65] C.E. Porter, *Statistical Theories of Spectra: Fluctuations* (Academic Press, New York, 1965).
- [Po-75] V. Potbhare, Ph.D. Thesis, University of Rochester, 1975.
- [Po-91] V. Potbhare and N. Tressler, Nucl. Phys. A **530**, 171 (1991).
- [Qu-74] C. Quesne and S. Spitz, Ann. Phys. (N.Y.) **85**, 115 (1974).

- [Qu-75] C. Quesne, J. Math. Phys. **16**, 2427 (1975).
- [Qu-77] C. Quesne and S. Spitz, J. Phys. Lett. (Paris) **38**, 337 (1977).
- [Ra-71] K.E Ratcliff, Phys. Rev. C **3**, 117 (1971).
- [Ri-08] M. Rigol, V. Dunjko, and M. Olshanii, Nature (London) **452**, 854 (2008).
- [Ri-09] M. Rigol, Phys. Rev. Lett. **103**, 100403 (2009).
- [Ro-60] N. Rosenzweig and C.E. Porter, Phys. Rev. **120**, 1698 (1960).
- [Sa-10] L.F. Santos and M. Rigol, Phys. Rev. E **81**, 036206 (2010).
- [Sa-10a] L.F. Santos and M. Rigol, Phys. Rev. E **82**, 031130 (2010).
- [Sc-08] S. Schmidt and Y. Alhassid, Phys. Rev. Lett. **101**, 207003 (2008).
- [Se-88] B.G. Searle and P.H. Butler, J. Phys. A: Math. Gen. **21**, 1977 (1988).
- [Sh-08] J.J. Shen, A. Arima, Y.M. Zhao, and N. Yoshinaga, Phys. Rev. C **78**, 044305 (2008).
- [Sh-10] Yu Shi, Phys. Rev. A **82**, 023603 (2010).
- [So-02] O. Sorlin *et al.*, Phys. Rev. Lett. **88**, 092501 (2002).
- [Sr-94] M. Srednicki, Phys. Rev. E **50**, 888 (1994).
- [St-06] H.-J. Stöckmann, *Quantum Chaos: An Introduction* (Cambridge University Press, New York, 2006).
- [St-87] A. Stuart and J.K. Ord, *Kendall's Advanced Theory of Statistics : Distribution Theory* (Oxford University Press, New York, 1987).
- [Ta-93] I. Talmi, *Simple Models of Complex Nuclei: The Shell Model and Interacting Boson Model* (Harwood Academic Publishers, Switzerland, 1993).
- [Te-06] E. Terán and C.W. Johnson, Phys. Rev. C **73**, 024303 (2006).
- [Te-06a] E. Terán and C.W. Johnson, Phys. Rev. C **74**, 067302 (2006).
- [To-86] S. Tomsovic, Ph.D. Thesis, University of Rochester, 1986.
- [To-00] S. Tomsovic, M.B. Johnson, A.C. Hayes, and J.D. Bowman, Phys. Rev. C **62**, 054607 (2000).
- [Tu-04] A.M. Tulino and S. Verdú, *Random Matrix Theory and Wireless Communication* (now Publishers Inc., USA, 2004).
- [Tu-06] H.E. Türeci and Y. Alhassid, Phys. Rev. B **74**, 165333 (2006).
- [Ul-08] D. Ullmo, Rep. Prog. Phys. **71**, 026001 (2008).
- [Va-07] J.P. Valencia and H.C. Wu, AIP Conf. Proc. **947**, 283 (2007).
- [Va-95] P. Van Isacker, D.D. Warner, and D.S. Brenner, Phys. Rev. Lett. **74**, 4607 (1995).
- [Va-99] P. Van Isacker, O. Juillet, and F. Nowacki, Phys. Rev. Lett. **82**, 2060 (1999).

- [Va-05] P. Van Isacker, D.D. Warner, and A. Frank, Phys. Rev. Lett. **94**, 162502 (2005).
- [Ve-02] V. Velázquez and A.P. Zuker, Phys. Rev. Lett. **88**, 072502 (2002).
- [Ve-81] J.J.M. Verbaarschot and P.J. Brussaard, Phys. Lett. **B102**, 210 (1981).
- [Ve-82] J.J.M. Verbaarschot, Ph.D. Thesis, Fysisch Laboratorium, Utrecht, The Netherlands, 1982.
- [Ve-84] J.J.M. Verbaarschot and P.J. Brussaard, Nucl. Phys. **A423**, 77 (1984).
- [Vi-95] N. Ja. Vilenkin and A.U. Klimyk, *Representation of Lie Groups and Special Functions: Recent Advances* (Kluwer Academic, Dordrecht, The Netherlands, 1995).
- [Vo-08] A. Volya, Phys. Rev. Lett. **100**, 162501 (2008).
- [We-09] H. A. Weidenmüller and G. E. Mitchell, Rev. Mod. Phys. **81**, 539 (2009).
- [Wh-93] N. Whelan and Y. Alhassid, Nucl. Phys. A **556**, 42 (1993).
- [Wi-37] E.P. Wigner, Phys. Rev. **51**, 106 (1937).
- [Wi-55] E.P. Wigner, Ann. Math. **62**, 548 (1955).
- [Wi-57] E.P. Wigner, Ann. Math. **65**, 203 (1957).
- [Wi-61] E.P. Wigner, *The Probability of the Existence of a Self Reproducing Unit*, Reproduced from *The Logic of Personal Knowledge: Essays in Honor of Michael Polanyi, Chapter 19* (Routledge and Kegan Paul, London, 1961) in *Symmetries and Reflections: Scientific Essays of E.P. Wigner*, edited by W.J. Moore and M. Scriven, (Indiana University Press, Bloomington, 1967), reprinted by (Ox Bow Press, Connecticut, 1979), p. 200.
- [Wi-67] E.P. Wigner, SIAM Review **9**, 1 (1967).
- [Wi-28] J. Wishart, Biometrika **20A**, 32 (1928).
- [Wo-72] S.S.M. Wong and J. B. French, Nucl. Phys. A **198**, 188 (1972).
- [Wo-86] S.S.M. Wong, *Nuclear Statistical Spectroscopy* (Oxford University Press, New York, 1986).
- [Wr-10] M. Wright and R. Weiver, *New Directions in Linear Acoustics and Vibrations: Quantum Chaos, Random Matrix Theory and Complexity* (Cambridge University Press, New York, 2010).
- [Wy-70] B.G. Wybourne, *Symmetry Principles and Atomic Spectroscopy* (Wiley, New York, 1970).
- [Wy-74] B.G. Wybourne, *Classical Groups for Physicists* (Wiley, New York, 1974).
- [Yi-07] S.-K. Yip, Phys. Rev. A **75**, 023625 (2007).
- [Yo-09] N. Yoshida, Y.M. Zhao, and A. Arima, Phys. Rev. C **80**, 064324 (2009).
- [Yo-09a] N. Yoshinaga, A. Arima, J.J. Shen, and Y.M. Zhao, Phys. Rev. C **79**, 017301 (2009).

- [Ze-96] V. Zelevinsky, B.A. Brown, N. Frazier, and M. Horoi, Phys. Rep. **276**, 85 (1996).
- [Ze-04] V. Zelevinsky and A. Volya, Phys. Rep. **391**, 311 (2004).
- [Zh-04] Y.M. Zhao, A. Arima, N. Shimizu, K. Ogawa, N. Yoshinaga, and O. Scholten, Phys. Rev. C **70**, 054322 (2004).
- [Zh-04a] Y.M. Zhao, A. Arima, and N. Yoshinaga, Phys. Rep. **400** 1 (2004).
- [Zu-01] A.P. Zuker, L.W. Ndeuna, E. Nowacki, and E. Caurier, Phys. Rev. C **64**, 021304(R) (2001).