QUANTUM SYMMETRIES

Connections for Women Workshop, MSRI
January 23 to 24, 2020

[1] N. ANDRUSKIEWITSCH and D. NIKSHYCH (eds.), *Tensor categories and Hopf algebras*, Contemporary Mathematics **728**, American Mathematical Society, Providence, RI, 2019, ISBN 978-1-4704-4321-4. MR 3943742. Zbl 1415.18001. doi: 10.1090/conm/728.

[2] A. BELIAKOVA and A. D. LAUDA (eds.), *Categorification and higher representation theory*, Contemporary Mathematics **683**, American Mathematical Society, Providence, RI, 2017, ISBN 978-1-4704-2460-2. MR 3611709. Zbl 1362.81008. doi: 10.1090/conm/683.

[3] J. BERGEN and S. MONTGOMERY (eds.), *Advances in Hopf algebras: papers from the NSF-CBMS Conference on Hopf Algebras and their Actions on Rings held at DePaul University, Chicago, Illinois, August 10–14, 1992*, Lecture Notes in Pure and Applied Mathematics **158**, Marcel Dekker, New York, NY, 1994, ISBN 0-8247-9065-0. MR 1289418. Zbl 0802.00021.

[4] M. BERGVELT, G. YAMSKULNA, and W. ZHAO (eds.), *Vertex operator algebras and related areas: proceedings of the International Conference in honor of Geoffrey Mason's 60th birthday held at Illinois State University, Normal, IL, July 7–11, 2008*, Contemporary Mathematics **497**, American Mathematical Society, Providence, RI, 2009, ISBN 978-0-8218-4840-1. MR 2568393. Zbl 1175.17001. doi: 10.1090/conm/497.

[5] A. DAVYDOV, M. BATANIN, M. JOHNSON, S. LACK, and A. NEEMAN (eds.), *Categories in algebra, geometry and mathematical physics: papers from the conference and workshop in honor of Ross Street's 60th birthday held at Macquarie University, Sydney, July 11–16, 2005, and the Australian National University, Canberra, July 18–21, 2005*, Contemporary Mathematics **431**, American Mathematical Society, Providence, RI, 2007, ISBN 978-0-8218-3970-6; 0-8218-3970-5. MR 2307963. Zbl 1116.18001. doi: 10.1090/conm/431.

[6] C. L. DOUGLAS, J. FRANCIS, A. G. HENRIQUES, and M. A. HILL (eds.), *Topological modular forms*, Mathematical Surveys and Monographs **201**, American Mathematical Society, Providence, RI, 2014, ISBN 978-1-4704-1884-7. MR 3223024. Zbl 1304.55002. doi: 10.1090/surv/201.

[7] P. ETINGOF, S. GELAKI, D. NIKSHYCH, and V. OSTRIK, *Tensor categories*, Mathematical Surveys and Monographs **205**, American Mathematical Society, Providence, RI, 2015, ISBN 978-1-4704-2024-6. MR 3242743. Zbl 1365.18001. doi: 10.1090/surv/205.

[8] P. ETINGOF, O. GOLBERG, S. HENSEL, T. LIU, A. SCHWENDNER, D. VAINTROB, and E. YUDOVINA, *Introduction to representation theory*, Student Mathematical Library **59**, American Mathematical Society, Providence, RI, 2011, With historical interludes by Slava Gerovitch. ISBN 978-0-8218-5351-1. MR 2808160. Zbl 1242.20001. doi: 10.1090/stml/059.

[9] D. E. EVANS and Y. KAWAHIGASHI, *Quantum symmetries on operator algebras*, Oxford University Press, New York, NY, 1998, ISBN 0-19-851175-2. MR 1642584. Zbl 0924.46054.

[10] D. S. FREED, *Lectures on field theory and topology*, CBMS Regional Conference Series in Mathematics **133**, American Mathematical Society, Providence, RI, 2019, ISBN 978-1-4704-5206-3. MR 3969923. Zbl 07114159. doi: 10.1090/cbms/133.

[11] D. FUTER, E. KALFAGIANNI, and J. PURCELL, *Guts of surfaces and the colored Jones polynomial*, Lecture Notes in Mathematics **2069**, Springer, Heidelberg, 2013, ISBN 978-3-642-33301-9; 978-3-642-33302-6. MR 3024600. Zbl 1270.57002. doi: 10.1007/978-3-642-33302-6.

Date: January 14, 2020.

Bibliography by Chelsea M. Walton.

[12] T. GANNON, *Moonshine beyond the monster: the bridge connecting algebra, modular forms and physics*, Cambridge University Press, 2006, ISBN 978-0-521-83531-2; 0-521-83531-3. MR 2257727. Zbl 1146.11026. doi: 10.1017/CBO9780511535116.

[13] C. HEUNEN and J. VICARY (eds.), *Categories for quantum theory: an introduction*, Oxford Graduate Texts in Mathematics **28**, Oxford University Press, Oxford, 2020, ISBN 978-0198739616. Zbl 07081551.

[14] V. JONES and V. S. SUNDER, *Introduction to subfactors*, London Mathematical Society Lecture Note Series **234**, Cambridge University Press, 1997, ISBN 0-521-58420-5. MR 1473221. Zbl 0903.46062. doi: 10.1017/CBO9780511566219.

[15] Y. KASHINA, Y. SOMMERHÄUSER, and Y. ZHU, *On higher Frobenius–Schur indicators*, Memoirs of the American Mathematical Society **181**:855, American Mathematical Society, Providence, RI, 2006. MR 2213320. Zbl 1163.16029. doi: 10.1090/memo/0855.

[16] G. LETZTER, *Invariant differential operators for quantum symmetric spaces*, Memoirs of the American Mathematical Society **193**:903, American Mathematical Society, Providence, RI, 2008. MR 2400554. Zbl 1236.17024. doi: 10.1090/memo/0903.

[17] S. MONTGOMERY, *Fixed rings of finite automorphism groups of associative rings*, Lecture Notes in Mathematics **818**, Springer, Berlin, 1980, ISBN 3-540-10232-9. MR 590245. Zbl 0449.16001. doi: 10.1007/BFb0091561.

[18] S. MONTGOMERY (ed.), *Group actions on rings: proceedings of the AMS-IMS-SIAM joint summer research conference held at Bowdoin College, Brunswick, Maine, July 8–14, 1984*, Contemporary Mathematics **43**, American Mathematical Society, Providence, RI, 1985, ISBN 0-8218-5046-6. MR 810639. Zbl 0563.00007. doi: 10.1090/conm/043.

[19] S. MONTGOMERY, *Hopf algebras and their actions on rings*, CBMS Regional Conference Series in Mathematics **82**, American Mathematical Society, Providence, RI, 1993, ISBN 0-8218-0738-2. MR 1243637. Zbl 0793.16029. doi: 10.1090/cbms/082.

[20] S. MONTGOMERY and H.-J. SCHNEIDER (eds.), *New directions in Hopf algebras*, Mathematical Sciences Research Institute Publications **43**, Cambridge University Press, 2002, ISBN 0-521-81512-6. MR 1913435. Zbl 0990.00022. http://library.msri.org/books/Book43.

[21] S. NATALE, *Semisolvability of semisimple Hopf algebras of low dimension*, Memoirs of the American Mathematical Society **186**:874, American Mathematical Society, Providence, RI, 2007. MR 2294999. Zbl 1185.16033. doi: 10.1090/memo/0874.

[22] S. POPA, *Classification of subfactors and their endomorphisms*, CBMS Regional Conference Series in Mathematics **86**, American Mathematical Society, Providence, RI, 1995, ISBN 0-8218-0321-2. MR 1339767. Zbl 0865.46044. doi: 10.1090/cbms/086.

[23] V. TURAEV and A. VIRELIZIER, *Monoidal categories and topological field theory*, Progress in Mathematics **322**, Birkhäuser, Cham, 2017, ISBN 978-3-319-49833-1; 978-3-319-49834-8. MR 3674995. Zbl 1423.18001. doi: 10.1007/978-3-319-49834-8.

[24] S. J. WITHERSPOON, *Hochschild cohomology for algebras*, Graduate Studies in Mathematics **204**, American Mathematical Society, Providence, RI, 2019, ISBN 978-1-4704-4931-5. Zbl 07134294. doi: 10.1090/gsm/204.