

Books

- [ALR07] Alejandro Adem, Johann Leida, and Yongbin Ruan. *Orbifolds and Stringy Topology*. Cambridge Tracts in Mathematics 171. Cambridge: Cambridge University Press, 2007. xii+149 pp. ISBN: 978-0-521-87004-7. DOI: [10.1017/CBO9780511543081](https://doi.org/10.1017/CBO9780511543081).
- [Alu09] Paolo Aluffi. *Algebra: Chapter 0*. Second printing. Graduate Studies in Mathematics 104. Providence, Rhode Island: American Mathematical Society, 2009. xxi+713 pp. ISBN: 978-0-8218-4781-7. DOI: [10.1090/gsm/104](https://doi.org/10.1090/gsm/104).
- [AM69] Michael F. Atiyah and Ian G. Macdonald. *An Introduction to Commutative Algebra*. Addison-Wesley Series in Mathematics. Addison-Wesley Publishing Company, 1969. ix+128 pp.
- [Bos09] Siegfried Bosch. *Algebra*. 7th ed. Berlin, Heidelberg: Springer-Verlag, 2009. viii+376 pp. ISBN: 978-3-540-92811-9. DOI: [10.1007/978-3-540-92812-6](https://doi.org/10.1007/978-3-540-92812-6).
- [Bou07] Nicolas Bourbaki. *Groupes et algèbres de Lie. Chapitre 1. Éléments de mathématique*. Berlin, Heidelberg: Springer-Verlag, 2007. vi+146 pp. ISBN: 978-3-540-35335-5. DOI: [10.1007/978-3-540-35337-9](https://doi.org/10.1007/978-3-540-35337-9).
- [Bou89] Nicolas Bourbaki. *Algebra I. Chapters 1–3*. 2nd printing. Elements of Mathematics. Berlin, Heidelberg, New York: Springer-Verlag, 1989. xxiii+709 pp. ISBN: 3-540-64243-9.
- [Bra17] Martin Brandenburg. *Einführung in die Kategorientheorie. Mit ausführlichen Erklärungen und zahlreichen Beispielen*. 2nd ed. Springer Spektrum, 2017. x+345 pp. ISBN: 978-3-662-53520-2. DOI: [10.1007/978-3-662-53521-9](https://doi.org/10.1007/978-3-662-53521-9).
- [Bre72] Glen Eugene Bredon. *Introduction to Compact Transformation Groups*. Pure and Applied Mathematics 46. New York, London: Academic Press, 1972. xiii+459 pp. ISBN: 978-0-12-128850-1. DOI: [10.1016/s0079-8169\(08\)x6007-6](https://doi.org/10.1016/s0079-8169(08)x6007-6).
- [Bre93] Glen Eugene Bredon. *Topology and Geometry*. 1st ed. Graduate Texts in Mathematics 139. New York: Springer-Verlag, 1993. xiv+557 pp. ISBN: 978-0-387-97926-7. DOI: [10.1007/978-1-4757-6848-0](https://doi.org/10.1007/978-1-4757-6848-0).
- [CFS95] John Scott Carter, Daniel Evans Flath, and Masahico Saito. *The Classical and Quantum 6j-symbols*. Mathematical Notes 43. Princeton University Press, 1995. x+164 pp. ISBN: 9780691027302.
- [CG10] Neil Chriss and Victor Ginzburg. *Representation Theory and Complex Geometry*. 1st ed. Birkhäuser Basel, 2010. x+495 pp. ISBN: 978-0-8176-3792-7. DOI: [10.1007/978-0-8176-4938-8](https://doi.org/10.1007/978-0-8176-4938-8).
- [Cis19] Denis-Charles Cisinski. *Higher categories and homotopical algebra*. 1st ed. Cambridge Studies in Advanced Mathematics 180. Cambridge: Cambridge University Press, 2019. xviii+430 pp. ISBN: 978-1-108-47320-0. DOI: [10.1017/9781108588737](https://doi.org/10.1017/9781108588737). URL: <http://www.mathematik.uni-regensburg.de/cisinski/publikationen.html> (visited on October 8, 2019).

- [CP95] Vyjayanthi Chari and Andrew N. Pressley. *A Guide to Quantum Groups*. First paperback edition (with corrections). Cambridge University Press, July 1995. xvi+651 pp. ISBN: 978-0-521-55884-6.
- [CST10] Tullio Ceccherini-Silberstein, Fabio Scarabotti, and Filippo Tolli. *Representation Theory of the Symmetric Groups. The Okounkov-Vershik Approach, Character Formulas, and Partition Algebras*. Cambridge Studies in Advanced Mathematics 121. Cambridge University Press, 2010. xvi+412 pp. ISBN: 978-0-521-11817-0. DOI: [10.1017/CBO9781139192361](https://doi.org/10.1017/CBO9781139192361).
- [CW12] Shun-Jen Cheng and Weiqiang Wang. *Dualities and Representations of Lie Superalgebras*. Graduate Studies in Mathematics 144. Providence, Rhode Island: American Mathematical Society, 2012. xvii+302 pp. ISBN: 978-0-8218-9118-6. DOI: [10.1090/gsm/144](https://doi.org/10.1090/gsm/144).
- [Die08] Tammo tom Dieck. *Algebraic Topology*. Corrected 2nd printing. EMS Textbooks in Mathematics. Zürich: European Mathematical Society Publishing House, September 2008. xii+567 pp. ISBN: 978-3-03719-048-7. DOI: [10.4171/048](https://doi.org/10.4171/048).
- [Eis95] David Eisenbud. *Commutative Algebra. With a View Towards Algebraic Geometry*. Graduate Texts in Mathematics 150. New York: Springer-Verlag, 1995. ISBN: 978-0-387-94268-1. DOI: [10.1007/978-1-4612-5350-1](https://doi.org/10.1007/978-1-4612-5350-1).
- [Eti+11] Pavel Etingof et al. *Introduction to representation theory*. Student Mathematical Library 59. With historical interludes by Slava Gerovitch. Providence, Rhode Island: American Mathematical Society, 2011. viii+228 pp. ISBN: 978-0-8218-5351-1. DOI: [10.1090/stml/059](https://doi.org/10.1090/stml/059).
- [EW06] Karin Erdmann and Mark J. Wildon. *Introduction to Lie Algebras*. 1st ed. Springer Undergraduate Mathematics Series. London: Springer-Verlag, 2006. xii+251 pp. ISBN: 978-1-84628-040-5. DOI: [10.1007/1-84628-490-2](https://doi.org/10.1007/1-84628-490-2).
- [FH04] William Fulton and Joe Harris. *Representation Theory. A First Course*. Graduate Texts in Mathematics 129. New York: Springer-Verlag, 2004. xv+551 pp. ISBN: 978-0-387-97527-6. DOI: [10.1007/978-1-4612-0979-9](https://doi.org/10.1007/978-1-4612-0979-9).
- [FHT01] Yves Félix, Stephen Halperin, and Jean-Claude Thomas. *Rational Homotopy Theory*. Graduate Texts in Mathematics 205. New York: Springer-Verlag, 2001. xxxiii+539 pp. ISBN: 978-0-387-95068-6. DOI: [10.1007/978-1-4613-0105-9](https://doi.org/10.1007/978-1-4613-0105-9).
- [Ful97] William Fulton. *Young Tableaux. With Applications to Representation Theory and Geometry*. London Mathematical Society Student Texts 35. Cambridge University Press, 1997. x+260 pp. ISBN: 978-0-521-56724-4. DOI: [10.1017/CBO9780511626241](https://doi.org/10.1017/CBO9780511626241).
- [GJ09] Paul G. Goerss and John Jardine. *Simplicial Homotopy Theory*. Modern Birkhäuser Classics. Basel: Birkhäuser, 2009. xvi+510 pp. ISBN: 978-3-0346-0188-7. DOI: [10.1007/978-3-0346-0189-4](https://doi.org/10.1007/978-3-0346-0189-4).
- [Hap88] Dieter Happel. *Triangulated Categories in the Representation of Finite Dimensional Algebras*. London Mathematical Society Lecture Note Series 119. Cambridge University Press, 1988. x+208 pp. DOI: [10.1017/CBO9780511629228](https://doi.org/10.1017/CBO9780511629228).

- [HK02] Jin Hong and Seok-Jin Kang. *Introduction to Quantum Groups and Crystal Bases*. Graduate Studies in Mathematics 42. American Mathematical Society, 2002. xviii+307 pp. ISBN: 978-0-8218-2874-8. DOI: [10.1090/gsm/042](https://doi.org/10.1090/gsm/042).
- [Hov99] Mark Hovey. *Model Categories*. Mathematical Surveys and Monographs 63. American Mathematical Society, 1999. xii+213 pp. ISBN: 978-0-8218-4361-1. DOI: [10.1090/surv/063](https://doi.org/10.1090/surv/063).
- [HS94] Peter J. Hilton and Urs Stammbach. *A Course in Homological Algebra*. 2nd ed. Graduate Texts in Mathematics 4. New York: Springer-Verlag, 1994. xii+366 pp. ISBN: 978-0-387-94823-2. DOI: [10.1007/978-1-4419-8566-8](https://doi.org/10.1007/978-1-4419-8566-8).
- [Hum72] James Humphreys. *Introduction to Lie Algebras and Representation Theory*. Graduate Texts in Mathematics 9. New York: Springer Verlag, 1972. xiii+173 pp. ISBN: 978-0-387-90053-7. DOI: [10.1007/978-1-4612-6398-2](https://doi.org/10.1007/978-1-4612-6398-2).
- [Jan96] Jens Carsten Jantzen. *Lectures on Quantum Groups*. Graduate Studies in Mathematics 6. American Mathematical Society, 1996. viii+266 pp. ISBN: 978-0-8218-0478-0. DOI: [10.1090/gsm/006](https://doi.org/10.1090/gsm/006).
- [Kas95] Christian Kassel. *Quantum Groups*. Graduate Texts in Mathematics 155. New York: Springer Verlag, 1995. xii+534 pp. ISBN: 978-0-387-94370-1. DOI: [10.1007/978-1-4612-0783-2](https://doi.org/10.1007/978-1-4612-0783-2).
- [KL94] Louis Hirsch Kauffman and S3stenes Luiz Soares Lins. *Temperley-Lieb Recoupling Theory and Invariants of 3-Manifolds*. Annals of Mathematics Studies 134. Princeton University Press, 1994. x+296 pp. DOI: [10.1515/9781400882533](https://doi.org/10.1515/9781400882533).
- [Lam01] Tsit-Yuen Lam. *A First Course in Noncommutative Rings*. 2nd ed. Graduate Texts in Mathematics 131. New York: Springer Verlag, 2001. xix+388 pp. ISBN: 978-0-387-95183-6. DOI: [10.1007/978-1-4419-8616-0](https://doi.org/10.1007/978-1-4419-8616-0).
- [Lan02] Serge Lang. *Algebra*. Revised Third Edition. Graduate Texts in Mathematics 211. New York: Springer Verlag, 2002. xv+914 pp. ISBN: 978-0-387-95385-4. DOI: [10.1007/978-1-4613-0041-0](https://doi.org/10.1007/978-1-4613-0041-0).
- [LB18] Venkatraman Lakshmibai and Justin Brown. *Flag Varieties. An Interplay of Geometry, Combinatorics, and Representation Theory*. 2nd ed. Texts and Readings in Mathematics 53. Springer Singapore, 2018. xiv+312 pp. ISBN: 978-981-13-1393-6. DOI: [10.1007/978-981-13-1393-6](https://doi.org/10.1007/978-981-13-1393-6).
- [Lee12] John Marshall Lee. *Introduction to Smooth Manifolds*. 2nd ed. Graduate Texts in Mathematics 218. New York: Springer-Verlag, 2012. xvi+708 pp. ISBN: 978-1-4419-9981-8. DOI: [10.1007/978-1-4419-9982-5](https://doi.org/10.1007/978-1-4419-9982-5).
- [Lee18] John Marshall Lee. *Introduction to Riemannian Manifolds*. 2nd ed. Graduate Texts in Mathematics 176. Springer International Publishing, 2018. xiii+437 pp. ISBN: 978-3-319-91754-2. DOI: [10.1007/978-3-319-91755-9](https://doi.org/10.1007/978-3-319-91755-9).
- [Lei14] Tom Leinster. *Basic Category Theory*. Cambridge Studies in Advanced Mathematics 143. Cambridge: Cambridge University Press, 2014. viii+183 pp. ISBN: 978-1-107-04424-1. DOI: [10.1017/CBO9781107360068](https://doi.org/10.1017/CBO9781107360068). arXiv: [1612.09375 \[math.CT\]](https://arxiv.org/abs/1612.09375).

- [Lod92] Jean-Louis Loday. *Cyclic Homology*. Grundlehren der mathematischen Wissenschaften 301. Berlin, Heidelberg: Springer Verlag, 1992. xix+516 pp. ISBN: 978-3-662-21741-2. DOI: [10.1007/978-3-662-21739-9](https://doi.org/10.1007/978-3-662-21739-9).
- [Lur17b] Jacob Lurie. *Higher Topos Theory*. April 2017. xviii+931 pp. URL: <http://www.math.harvard.edu/~lurie/> (visited on October 8, 2019).
- [Mac98] Saunders Mac Lane. *Categories for the Working Mathematician*. 2nd ed. Graduate Texts in Mathematics 5. New York: Springer-Verlag, 1998. xii+314 pp. ISBN: 978-0-387-98403-2. DOI: [10.1007/978-1-4757-4721-8](https://doi.org/10.1007/978-1-4757-4721-8).
- [Mat87] Hideyuki Matsumura. *Commutative Ring Theory*. Trans. Japanese by Miles Reid. Cambridge Studies in Advanced Mathematics 8. Cambridge: Cambridge University Press, 1987. xiv+320 pp. ISBN: 978-0-521-36764-6. DOI: [10.1017/CBO9781139171762](https://doi.org/10.1017/CBO9781139171762).
- [May72] Jon Peter May. *The Geometry of Iterated Loop Spaces*. Lecture Notes in Mathematics 271. Berlin, New York: Springer Verlag, 1972. viii+175 pp. ISBN: 978-3-540-05904-2. DOI: [10.1007/BFb0067491](https://doi.org/10.1007/BFb0067491).
- [May93] Jon Peter May. *Simplicial Objects in Algebraic Topology*. Chicago Lectures in Mathematics. Reprint of the 1967 original. Chicago: University of Chicago Press, January 1993. viii+161 pp. ISBN: 978-0-226-51181-8.
- [MM02] Michael A. Mandell and Jon Peter May. *Equivariant Orthogonal Spectra and S-Modules*. Memoirs of the American Mathematical Society 755. 2002. x+108 pp. DOI: [10.1090/memo/0755](https://doi.org/10.1090/memo/0755).
- [MM03] Ieke Moerdijk and Janez Mrčun. *Introduction to Foliations and Lie Groupoids*. Cambridge Studies in Advanced Mathematics 91. Cambridge: Cambridge University Press, 2003. x+173 pp. ISBN: 978-0-521-83197-0. DOI: [10.1017/CBO9780511615450](https://doi.org/10.1017/CBO9780511615450).
- [Mus12] Ian M. Musson. *Lie Superalgebras and Enveloping Algebras*. Graduate Studies in Mathematics 131. Providence, Rhode Island: American Mathematical Society, 2012. xx+488 pp. ISBN: 978-0-8218-6867-6. DOI: [10.1090/gsm/131](https://doi.org/10.1090/gsm/131).
- [OV90] Arkadij L. Onishchick and Ernest B. Vinberg. *Lie Groups and Algebraic Groups*. Trans. Russian by D. A. Leites. 1st ed. Springer Series in Soviet Mathematics. Berlin, Heidelberg: Springer-Verlag, 1990. xx+330 pp. ISBN: 978-3-642-74336-8. DOI: [10.1007/978-3-642-74334-4](https://doi.org/10.1007/978-3-642-74334-4).
- [Qui67] Daniel Gray Quillen. *Homotopical Algebra*. 1st ed. Lecture Notes in Mathematics 43. Berlin, Heidelberg: Springer-Verlag, 1967. v+160 pp. ISBN: 978-3-540-03914-3. DOI: [10.1007/BFb0097438](https://doi.org/10.1007/BFb0097438).
- [Ric20] Birgit Richter. *From Categories to Homotopy Theory*. Cambridge Studies in Advanced Mathematics 188. Cambridge: Cambridge University Press, 2020. x+390 pp. ISBN: 978-1-108-47962-2. DOI: [10.1017/9781108855891](https://doi.org/10.1017/9781108855891).
- [Rie14] Emily Riehl. *Categorical Homotopy Theory*. New Mathematical Monographs 24. Cambridge University Press, June 2014. xviii+352 pp. ISBN: 978-1-107-04845-4. DOI: [10.1017/CBO9781107261457](https://doi.org/10.1017/CBO9781107261457).

- [Rie16] Emily Riehl. *Category Theory in Context*. Dover Publications, 2016. xviii+240 pp. ISBN: 978-0-486-80903-8. URL: <http://www.math.jhu.edu/~eriehl> (visited on October 8, 2019).
- [Rot88] Joseph Rotman. *An Introduction to Algebraic Topology*. 1st ed. Graduate Texts in Mathematics **119**. New York: Springer-Verlag, 1988. xiv+437 pp. ISBN: 978-0-387-96678-6. DOI: [10.1007/978-1-4612-4576-6](https://doi.org/10.1007/978-1-4612-4576-6).
- [Sch14] Ralf Schiffler. *Quiver Representations*. CMS Books in Mathematics. Springer International Publishing, 2014. xii+230 pp. ISBN: 978-3-319-09203-4. DOI: [10.1007/978-3-319-09204-1](https://doi.org/10.1007/978-3-319-09204-1).
- [Sch18] Stefan Schwede. *Global Homotopy Theory*. New Mathematical Monographs **34**. Cambridge: Cambridge University Press, 2018. xviii+828 pp. ISBN: 978-1-108-42581-0. DOI: [10.1017/9781108349161](https://doi.org/10.1017/9781108349161).
- [Sch79] Manfred Scheunert. *The Theory of Lie Superalgebras. An Introduction*. 1st ed. Lecture Notes in Mathematics **716**. Berlin, Heidelberg: Springer-Verlag, 1979. xii+276 pp. ISBN: 978-3-540-09256-8. DOI: [10.1007/BFb0070929](https://doi.org/10.1007/BFb0070929).
- [Tab15] Gonalo Tabuada. *Noncommutative Motives*. University Lecture Series **63**. Providence, Rhode Island: American Mathematical Society, 2015. x+114 pp. ISBN: 978-1-4704-2397-1. DOI: [10.1090/ulect/063](https://doi.org/10.1090/ulect/063).
- [TY05] Patrice Tauvel and Rupert Wei Tze Yu. *Lie Algebras and Algebraic Groups*. 1st ed. Berlin, Heidelberg: Springer-Verlag, 2005. xvi+656 pp. ISBN: 978-3-540-24170-6. DOI: [10.1007/b139060](https://doi.org/10.1007/b139060).
- [Wae71] Bartel Leendert van der Waerden. *Algebra I*. 8th ed. Grundlehren der mathematischen Wissenschaften **33**. Berlin, Heidelberg: Springer Verlag, 1971. xi+274 pp.
- [Wed16] Torsten Wedhorn. *Manifolds, Sheaves, and Cohomology*. 1st ed. Springer Studium Mathematik. Springer Spektrum, 2016. xvi+354 pp. ISBN: 978-3-658-10632-4. DOI: [10.1007/978-3-658-10633-1](https://doi.org/10.1007/978-3-658-10633-1).
- [Wei94] Charles A. Weibel. *An Introduction to Homological Algebra*. Cambridge Studies in Advanced Mathematics **38**. Cambridge University Press, 1994. xiv+450 pp. ISBN: 978-0-521-55987-1. DOI: [10.1017/CBO9781139644136](https://doi.org/10.1017/CBO9781139644136).

Articles

- [CM01] Marius Crainic and Ieke Moerdijk. *Foliation Groupoids and Their Cyclic Homology*. In: *Advances in Mathematics* **157.2** (2001), pp. 177–197. DOI: [10.1006/aima.2000.1944](https://doi.org/10.1006/aima.2000.1944). arXiv: [math/0003119v2](https://arxiv.org/abs/math/0003119v2) [[math.KT](#)].
- [Coo15] Hogancamp Matt Cooper Benjamin. *An exceptional collection for Khovanov homology*. In: *Algebraic & Geometric Topology* **15.5** (2015), pp. 2659–2707.
- [CPS88] Edward T. Cline, Brian J. Parshall, and Leonard L. Scott. *Finite dimensional algebras and highest weight categories*. In: *Journal für reine und angewandte Mathematik* **391** (1988), pp. 85–99. DOI: [10.1515/crll.1988.391.85](https://doi.org/10.1515/crll.1988.391.85).

- [Ct74] Categories and cohomology theorie. Segal, Graeme. In: *Topology* 13 (1974), pp. 239–312. DOI: [10.1016/0040-9383\(74\)90022-6](https://doi.org/10.1016/0040-9383(74)90022-6).
- [DE72] Eldon Dyer and Samuel Eilenberg. *An adjunction theorem for locally equiconnected spaces*. In: *Pacific Journal of Mathematics* 41.3 (1972), pp. 669–685. URL: <http://projecteuclid.org/euclid.pjm/1102968144> (visited on December 18, 2019).
- [Elm83] Anthony D. Elmendorf. *Systems of fixed point sets*. In: *Transactions of the American Mathematical Society* 277.1 (May 1983), pp. 275–284. DOI: [10.2307/1999356](https://doi.org/10.2307/1999356).
- [Ger98] Jérôme Germoni. *Indecomposable Representations of Special Linear Lie Superalgebras*. In: *Journal of Algebra* 209 (1998), pp. 267–401. DOI: [10.1006/jabr.1998.7520](https://doi.org/10.1006/jabr.1998.7520).
- [Gre98] Richard Mutegeki Green. *Generalized Temperley–Lieb algebras and decorated tangles*. In: *Journal of Knot Theory and its Ramifications* 7.02 (1998), pp. 155–171.
- [HMo4] Andre Henriques and David Scott Metzler. *Presentations of Noneffective Orbifolds*. In: *Transactions of the American Mathematical Society* 356.6 (2004), pp. 2481–2499. DOI: [10.1090/S0002-9947-04-03379-3](https://doi.org/10.1090/S0002-9947-04-03379-3). arXiv: [math/0302182v1](https://arxiv.org/abs/math/0302182v1) [math.AT].
- [Hur87] J. P. Hurni. *Semisimple Lie superalgebras which are not the direct sums of simple Lie superalgebras*. In: *Journal of Physics A. Mathematical and General* 20.1 (January 1987), pp. 1–14. DOI: [10.1088/0305-4470/20/1/010](https://doi.org/10.1088/0305-4470/20/1/010).
- [Ill83] Sören Illman. *The Equivariant Triangulation Theorem for Actions of Compact Lie Groups*. In: *Mathematische Annalen* 262.4 (1983), pp. 487–501. DOI: [10.1007/BF01456063](https://doi.org/10.1007/BF01456063).
- [Kac77] Victor G. Kac. *Lie Superalgebras*. In: *Advances in Mathematics* 26.1 (October 1977), pp. 8–96. DOI: [10.1016/0001-8708\(77\)90017-2](https://doi.org/10.1016/0001-8708(77)90017-2).
- [Kau90] Louis Hirsch Kauffman. *An invariant of regular isotopy*. In: *Transactions of the American Mathematical Society* 318.2 (1990), pp. 417–471. DOI: [10.2307/2001315](https://doi.org/10.2307/2001315).
- [Kel05] G. M. Kelly. *Basic Concepts of Enriched Category Theory*. In: *Reprints in Theory and Applications of Categories* 10 (April 23, 2005). URL: <http://www.tac.mta.ca/tac/reprints/articles/10/tr10abs.html> (visited on September 8, 2020).
- [Kie87] Rudger W. Kieboom. *A pullback theorem for cofibrations*. In: *Manuscripta Mathematica* 58.3 (1987), pp. 381–384. DOI: [10.1007/BF01165895](https://doi.org/10.1007/BF01165895).
- [Kör18] Alexander Körschgen. *A Comparison of two Models of Orbispaces*. In: *Homology, Homotopy and Applications* 20.1 (2018), pp. 329–358. DOI: [10.4310/HHA.2018.v20.n1.a19h](https://doi.org/10.4310/HHA.2018.v20.n1.a19h). arXiv: [1612.04267v4](https://arxiv.org/abs/1612.04267v4) [math.AT].
- [Lei15] Tom Leinster. *The bijection between projective indecomposable and simple modules*. In: *Bulletin of the Belgian Mathematical Society. Simon Stevin* 22.5 (2015), pp. 725–735. URL: <http://projecteuclid.org/euclid.bbms/1450389244> (visited on August 31, 2019).
- [Ler10] Eugene Lerman. *Orbifolds as stacks?* In: *L’Enseignement Mathématique* 56.3–4 (2010), pp. 315–363. DOI: [10.4171/LEM/56-3-4](https://doi.org/10.4171/LEM/56-3-4). arXiv: [0806.4160v2](https://arxiv.org/abs/0806.4160v2) [math.DG].

- [Lic91] William Bernard Raymond Lickorish. *Three-manifolds and the Temperley-Lieb algebra*. In: *Mathematische Annalen* **290.1** (1991), pp. 657–670. DOI: [10.1007/BF01459265](https://doi.org/10.1007/BF01459265).
- [MP97] Ieke Moerdijk and Dorette A. Pronk. *Orbifolds, Sheaves and Groupoids*. In: *K-Theory* **12.1** (1997), pp. 3–21. DOI: [10.1023/A:1007767628271](https://doi.org/10.1023/A:1007767628271).
- [Noo12] Behrang Noohi. *Homotopy types of topological stacks*. In: *Advances in Mathematics* **230.4–6** (2012), pp. 2014–2047. DOI: [10.1016/j.aim.2012.04.001](https://doi.org/10.1016/j.aim.2012.04.001). arXiv: [0808.3799v2](https://arxiv.org/abs/0808.3799v2) [[math.AT](#)].
- [Oor63] Frans Oort. *Yoneda Extensions in Abelian Categories*. In: *Mathematische Annalen* **153.3** (February 11, 1963), pp. 227–235. DOI: [BF01360318](https://doi.org/10.1007/BF01360318).
- [Pia91] Robert John Piacenza. *Homotopy theory of diagrams and CW-complexes over a category*. In: *Canadian Journal of Mathematics* **43.4** (1991), pp. 814–824. DOI: [10.4153/CJM-1991-046-3](https://doi.org/10.4153/CJM-1991-046-3).
- [Qui69] Daniel Quillen. *Rational homotopy theory*. In: *Annals of Mathematics. Second Series* **90** (1969), pp. 205–295. DOI: [10.2307/1970725](https://doi.org/10.2307/1970725).
- [Sat56] Ichiro Satake. *On a generalization of the notion of manifold*. In: *Proceedings of the National Academy of Sciences of the United States of America* **42** (1956), pp. 359–363. DOI: [10.1073/pnas.42.6.359](https://doi.org/10.1073/pnas.42.6.359).
- [Sch19] Stefan Schwede. *Orbispace, orthogonal spaces, and the universal compact Lie group*. In: *Mathematische Zeitschrift* (2019). DOI: [s00209-019-02265-1](https://doi.org/10.1007/s00209-019-02265-1). arXiv: [1711.06019v2](https://arxiv.org/abs/1711.06019v2) [[math.AT](#)]. Pre-published.

Collections

- [16] *Noncommutative algebraic geometry*. Mathematical Sciences Research Institute Publications **64**. Cambridge: Cambridge University Press, 2016. x+356. ISBN: 978-1-107-57003-0.
- [OMP02] *Orbifolds in Mathematics and Physics*. Contemporary Mathematics **310**. American Mathematical Society, 2002. ISBN: 978-0-8218-2990-5. DOI: [10.1090/conm/310/05405](https://doi.org/10.1090/conm/310/05405).
- [Str84] *Structure transverse des feuilletages*. Astérisque **116**. Société mathématique de France, 1984.

Incollections

- [Hae84] André Haefliger. *Groupoïdes d’holonomie et classifiants*. In: *Structure transverse des feuilletages*. Astérisque **116**. Société mathématique de France, 1984, pp. 70–97. URL: http://www.numdam.org/item/AST_1984__116__70_0 (visited on December 18, 2019).

- [Moe02] Ieke Moerdijk. *Orbifolds as Groupoids: an Introduction*. In: *Orbifolds in Mathematics and Physics*. Contemporary Mathematics **310**. American Mathematical Society, 2002, pp. 205–222. ISBN: 978-0-8218-2990-5. DOI: [10.1090/conm/310/05405](https://doi.org/10.1090/conm/310/05405). arXiv: [math/0203100v1](https://arxiv.org/abs/math/0203100v1) [math.DG].
- [Sch16] Travis Schedler. *Deformations of algebras in noncommutative geometry*. In: *Noncommutative algebraic geometry*. Mathematical Sciences Research Institute Publications **64**. Cambridge: Cambridge University Press, 2016, pp. 71–165. ISBN: 978-1-107-57003-0.

Proceedings

- [BRP78] Konrad Bleuler, Axel Reetz, and Herbert Rainer Petry, eds. *Differential Geometrical Methods in Mathematical Physics II* (University of Bonn, July 13–16, 1977). Lecture Notes in Mathematics **676**. Berlin, Heidelberg: Springer, 1978. vi+626. ISBN: 978-3-540-08935-3. DOI: [10.1007/BFb0063664](https://doi.org/10.1007/BFb0063664).
- [GS92b] Murray Gerstenhaber and Jim Stasheff, eds. *Deformation Theory and Quantum Groups with Applications to Mathematical Physics*. AMS-IMS-SIAM Joint Summer Research Conference on Deformation Theory of Algebras and Quantization with Applications to Physics (University of Massachusetts, July 14–20, 1990). Contemporary Mathematics **134**. American Mathematical Society, 1992. viii+377. ISBN: 978-0-8218-5141-8. DOI: [10.1090/conm/134](https://doi.org/10.1090/conm/134).
- [HJW89] Alexander J. Hahn, Donald G. James, and Zhe-xian Wan, eds. *Classical Groups and Related Topics*. Proceedings of a Conference in Honor of L. K. Hua (May 18–23, 1987). Contemporary Mathematics **82**. American Mathematical Society, 1989. xvi+254.

Inproceedings

- [CPS89] Edward T. Cline, Brian J. Parshall, and Leonard L. Scott. “Duality in Highest Weight Categories”. In: *Classical Groups and Related Topics*. Proceedings of a Conference in Honor of L. K. Hua (May 18–23, 1987). Ed. by Alexander J. Hahn, Donald G. James, and Zhe-xian Wan. Contemporary Mathematics **82**. American Mathematical Society, 1989, pp. 7–22.
- [GS92a] Murray Gerstenhaber and Samuel D. Schack. “Algebras, Bialgebras, Quantum Groups and Algebraic Deformations”. In: *Deformation Theory and Quantum Groups with Applications to Mathematical Physics*. AMS-IMS-SIAM Joint Summer Research Conference on Deformation Theory of Algebras and Quantization with Applications to Physics (University of Massachusetts, July 14–20, 1990). Ed. by Murray Gerstenhaber and Jim Stasheff. Contemporary Mathematics **134**. American Mathematical Society, 1992, pp. 51–93. ISBN: 978-0-8218-5141-8. DOI: [10.1090/conm/134](https://doi.org/10.1090/conm/134).

- [Kac78] Victor G. Kac. “Representations of Classical Lie Superalgebras”. In: *Differential Geometrical Methods in Mathematical Physics II* (University of Bonn, July 13–16, 1977). Ed. by Konrad Bleuler, Axel Reetz, and Herbert Rainer Petry. Lecture Notes in Mathematics 676. Berlin, Heidelberg: Springer, 1978, pp. 597–626. ISBN: 978-3-540-08935-3. DOI: [10.1007/BFb0063691](https://doi.org/10.1007/BFb0063691).

Others

- [And11] Dave Anderson. *Introduction to Equivariant Cohomology in Algebraic Geometry*. December 6, 2011. arXiv: [1112.1421](https://arxiv.org/abs/1112.1421) [math.AG]. (Visited on October 9, 2019).
- [Bel18] Pieter Belmans. *Hochschild (co)homology, and the Hochschild–Kostant–Rosenberg decomposition*. Advanced topics in algebra (V5A5). July 9, 2018. 97 pp. URL: <https://pbelmans.ncag.info/teaching/hh-2018> (visited on January 19, 2020). unpublished.
- [HG07] Andre Henriques and David Gepner. *Homotopy Theory of Orbispaces*. January 31, 2007. arXiv: [math/0701916v1](https://arxiv.org/abs/math/0701916v1) [math.AT].
- [HM19] Gijs Heuts and Ieke Moerdijk. *Trees in Topology and Algebra. An introduction to dendroidal homotopy theory*. July 10, 2019. xiv+353. URL: <http://www.projects.science.uu.nl/Moerdijk> (visited on October 8, 2019). Pre-published.
- [ITW05] Tatsuro Ito, Paul Terwilliger, and Chih-wen Weng. *The quantum algebra $U_q(\mathfrak{sl}_2)$ and its equitable presentation*. July 22, 2005. arXiv: [math/0507477v1](https://arxiv.org/abs/math/0507477v1) [math.QA].
- [Lew78] Lemoine Gaunce Jr Lewis. *The Stable Category and Generalized Thom Spectra*. PhD thesis. University of Chicago, 1978. URL: <http://www.math.uchicago.edu/~may/MISC/GaunceApp.pdf> (visited on December 18, 2019).
- [Lur] Jacob Lurie. *Kerodon. an online resource for homotopy-coherent mathematics*. URL: <https://kerodon.net> (visited on October 8, 2019).
- [Lur17a] Jacob Lurie. *Higher Algebra*. September 18, 2017. 1553 pp. URL: <https://www.math.ias.edu/~lurie> (visited on September 8, 2020).
- [Met03] David Metzler. *Topological and Smooth Stacks*. June 10, 2003. arXiv: [math/0306176v1](https://arxiv.org/abs/math/0306176v1) [math.DG].
- [Mil13] James Stuart Milne. *Lie Algebras, Algebraic Groups, and Lie Groups*. 2013. 186 pp. URL: <https://www.jmilne.org/math/CourseNotes/ala.html> (visited on January 24, 2020). unpublished.
- [MO18] David E Speyer. *When is the exterior algebra a Hopf algebra?* November 30, 2018. URL: <https://mathoverflow.net/q/316544> (visited on May 7, 2019).
- [MSE16] Jendrik Stelzner. *Proposition 4.7 on Lang’s semisimple rings part*. December 14, 2016. URL: <https://math.stackexchange.com/q/2058567> (visited on January 24, 2020).
- [Ram20] Lorenzo Ramero. *Grimoire d’Algèbre Commutative*. September 5, 2020. 823 pp. URL: <http://math.univ-lille1.fr/~ramero/teaching.html> (visited on September 8, 2020).
- [Rie11] Emily Riehl. *A Leisurely Introduction to Simplicial Sets*. August 2011. 14 pp. URL: <http://www.math.jhu.edu/~eriehl/#exposition> (visited on October 8, 2019).

- [Scho9] Olivier Schiffmann. *Lectures on Hall Algebras*. October 23, 2009. arXiv: [0611617v2 \[math.RT\]](#).
- [Stro9] Neil Patrick Strickland. *The category of CGWH spaces*. August 19, 2009. URL: <https://neil-strickland.staff.shef.ac.uk/courses/homotopy/> (visited on December 18, 2019).
- [Szc11] Matthew Szczesny. *Representations of Quivers over \mathbb{F}_1 and Hall Algebras*. July 25, 2011. arXiv: [1006.0912v3 \[math.QA\]](#).
- [Thu80] Willian Paul Thurston. *The geometry and topology of three-manifolds*. 1980. URL: <http://library.msri.org/books/gt3m/> (visited on December 18, 2019).
- [Vak17] Ravi Vakil. *The Rising Sea. Foundations on Algebraic Geometry*. November 18, 2017. 808 pp. URL: <http://math.stanford.edu/~vakil/216blog> (visited on September 8, 2020). draft.
- [Vas14] Christina Vasilakopoulou. *Generalization of Algebraic Operations via Enrichment*. PhD thesis. University of Cambridge, March 24, 2014. arXiv: [1411.3038 \[math.CT\]](#).