

FLOER HOMOTOPY THEORY

Connections Workshop
MSRI / SLMATH
September 8 to 9, 2022

BOOKS

- [1] D. BARNES and C. ROITZHEIM, *Foundations of stable homotopy theory*, Cambridge Studies in Advanced Mathematics **185**, Cambridge University Press, 2020, ISBN 978-1-108-48278-3. [MR 4211772](#). [Zbl 1481.55003](#). [doi: 10.1017/9781108636575](#).
- [2] A. J. BLUMBERG, T. GERHARDT, and M. A. HILL (eds.), *Stable categories and structured ring spectra*, Mathematical Sciences Research Institute Publications **69**, Cambridge University Press, New York, NY, 2022, ISBN 978-1-009-12329-7. [MR 4439759](#). [Zbl 7533858](#). <http://library.msri.org/books/Book69>.
- [3] A. CANNAS DA SILVA, *Lectures on symplectic geometry*, Lecture Notes in Mathematics **1764**, Springer, Berlin, Germany, 2001, Corrected printing 2008. ISBN 3-540-42195-5. [MR 1853077](#). [Zbl 1016.53001](#). [doi: 10.1007/978-3-540-45330-7](#).
- [4] D. MCDUFF and D. SALAMON, *J-holomorphic curves and symplectic topology*, 2nd ed., American Mathematical Society Colloquium Publications **52**, American Mathematical Society, Providence, RI, 2012, ISBN 978-0-8218-8746-2. [MR 2954391](#). [Zbl 1272.53002](#). [doi: 10.1090/coll/052](#).
- [5] D. MCDUFF and D. SALAMON, *Introduction to symplectic topology*, 3rd ed., Oxford Graduate Texts in Mathematics, Oxford University Press, 2017, ISBN 978-0-19-879490-5; 978-0-19-879489-9. [MR 3674984](#). [Zbl 1380.53003](#). [doi: 10.1093/oso/9780198794899.001.0001](#).

CHAPTERS

- [1] D. AUROUX, A beginner's introduction to Fukaya categories, in *Contact and symplectic topology* (F. BOURGEOIS, V. COLIN, and A. STIPSICZ, eds.), Bolyai Society Mathematical Studies **26**, János Bolyai Mathematical Society, Budapest, Hungary, 2014, ISBN 978-3-319-02035-8/p; 978-3-319-02036-5/e, pp. 85–136. [MR 3220941](#). [Zbl 1325.53001](#). [doi: 10.1007/978-3-319-02036-5_3](#).
- [2] R. L. COHEN, J. D. S. JONES, and G. B. SEGAL, Floer's infinite-dimensional Morse theory and homotopy theory, in *The Floer memorial volume* (H. HOFER, C. H. TAUBES, A. WEINSTEIN, and E. ZEHNDER, eds.), Progress in Mathematics **133**, Birkhäuser, Basel, Switzerland, 1995, ISBN 3-7643-5044-X, pp. 297–325. [MR 1362832](#). [Zbl 0843.58019](#). [doi: 10.1007/978-3-0348-9217-9_13](#).
- [3] J. HOM, Lecture notes on Heegaard Floer homology, in *Quantum field theory and manifold invariants* (D. S. FREED, S. GUKOV, C. MANOLESCU, C. TELEMAN, and U. TILLMANN, eds.), IAS/Park City Mathematics Series **28**, American Mathematical Society, Providence, RI, 2021, ISBN: 978-1-4704-6123-2/p; 978-1-4704-6721-0/e, pp. 171–200. [MR 4380679](#). [Zbl 1482.57001](#). [arXiv 2008.01836](#). [doi: 10.1090/pcms/028/03](#).

Date: August 22, 2022.

Bibliography by Kristen Hendricks.