

MAP5703 Introduction to Reidemeister torsion in 3-manifold topology

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Google Meet link: <https://meet.google.com/rxk-noah-bya>

Lecture 1	Tuesday, 20 Oct	10:00 – 12:00
Lecture 2	Wednesday, 21 Oct	14:00 – 16:00
Lecture 3	Tuesday, 27 Oct	10:00 – 12:00
Lecture 4	Wednesday, 28 Oct	14:00 – 16:00
Lecture 5	Tuesday, 3 Nov	10:00 – 12:00
Lecture 6	Wednesday, 4 Nov	14:00 – 16:00

Course bibliography

- [1] F. BONAHOON AND J. P. OTAL, *Scindements de Heegaard des espaces lenticulaires*, Annales scientifiques de l'É.N.S. 4e série vol. 16 no. 3 pp. 451–466, 1983
- [2] W. H. COCKROFT, *Simple homotopy type torsion and the Reidemeister–Franz torsion*, Topology vol. 1 pp. 143–150, 1962
- [3] W. FRANZ, *Über die Torsion einer Überdeckung*, Journal für die reine und angewandte Mathematik pp. 245–254, 1935
- [4] R. LICKORISH, *An introduction to knot theory* (Graduate Texts in Mathematics 175), Springer Science & Business Media, 2012
- [5] J. MILNOR, *Whitehead torsion*, Bulletin of the AMS 72 pp. 358–426, 1966
- [6] L. NICOLAESCU, *The Reidemeister torsion of 3-manifolds*, Walter de Gruyter, 2003.
- [7] K. REIDEMEISTER, *Homotopieringe und Linsenräume*, Abhandlungen aus dem mathematischen Seminar der Universität Hamburg 11(1) pp. 102–109, 1935
- [8] G. DE RHAM, *Complexes à automorphismes et homéomorphie différentiable*, Annales de l'institut Fourier pp. 51–67, 1951
- [9] D. ROLFSEN, *Knots and links*, AMS Chelsea Publishing, reprint 2003
- [10] N. STEENROD, *Homology with local coefficients*, Annals of Mathematics 44 pp. 610–627, 1943
- [11] V. TURAEV, *Introduction to combinatorial torsions*, Birkhäuser Verlag, 2001