

Publications of Daniel Ruberman:

1. *Imbedding 4-manifolds and slicing links*, Proc. Camb. Phil. Soc. **91** (1982), 107-110.
2. *Doubly slice knots and the Casson-Gordon invariants*, Trans. Amer. Math. Soc. **279** (1983), 569-588.
3. *Imbedding punctured lens spaces and connected sums*, Pacific J. Math. **279** (1983), 569-588.
4. *Concordance of links in S^4* , Contemporary Math. **35** (Four Manifold theory) (1984), 481-483.
5. *Invariant Knots of free involutions of S^4* , Top. Appl. **18** (1984), 217-224.
6. *Imbeddings and homology cobordisms of lens spaces* (with S. Cappell) Comm. Math. Helv. **63** (1988), 75-89.
7. *Mutation and volumes of knots in S^3* , Invent. Math. **90** (1987), 189-215.
8. *Rational homology cobordisms of rational space forms*, Topology **27** (1988), 401-414.
9. *The Casson-Gordon invariants in high-dimensional knot theory*, Trans. Amer. Math. Soc. **306** (1988), 579-595.
10. *Invariants of tangles* (with T. Cochran), Math. Proc. Camb. Phil. Soc. **105** (1989), 299-306.
11. *Mutation and the η -invariant* (with R. Meyerhoff), J. Diff. Geom. **31** (1990), 101-130.
12. *Seifert surfaces of knots in S^4* , Pacific J. Math. **145** (1990), 97-116.
13. *Cutting and pasting and the η -invariant* (with R. Meyerhoff), Duke Math. J. **61** (1990), 747-762.
14. *Homology and bounded homology of universal covers.* (Appendix to *Manifolds with wells of negative Ricci curvature*, by S. Rosenberg and K. D. Elworthy), Invent. Math. **103** (1991), 491-496.
15. *Smooth 2-spheres in homology K3 surfaces*, Top. Appl. **59** (1994), 1987-99.
16. "The L^2 moduli space and a vanishing theorem for Donaldson's Polynomial invariants," (with J. Morgan and T. Mrowka), Monographs in Geometry and Topology, International Press (1994).
17. *Involutions on spin 4-manifolds*, Proc. Amer. Math. Soc. **123** (1995) 593-597.
18. *Splitting the spectral flow, and the Alexander matrix*, (with P. Kirk and E. Klassen), Comm. Math. Helv. **69** (1994), 375-416.
19. *Configurations of 2-spheres in the K3 surface and other 4-manifolds*, Math. Proc. Camb. Phil. Soc. **120** (1996), 247-253.
20. *Relations among Donaldson invariants arising from negative 2-spheres and tori*, Duke Math. J. **83** (1996), 645-660.
21. *A sextic surface cannot have 66 nodes* (with D. Jaffe), J. Alg. Geom. **6** (1997), 151-168.
22. *The minimal genus of an embedded surface of non-negative square in a rational surface*, Turkish J. Math. **20** (1996), 129-133.
23. *Null-homotopic embedded codimension-one spheres*, pages 229-232 in "Tight and taut submanifolds," Cambridge Univ. Press, Cambridge (1997).
24. *A fake $\mathbf{CP}^2 \# \mathbf{RP}^4$* (with R. Stern), Math. Res. Lett. **4** (1997), 375-378.
25. *An obstruction to smooth isotopy in dimension 4*, Math. Res. Lett. **5** (1998), 743-758.
26. *A polynomial invariant of diffeomorphisms of 4-manifolds*, Geometry and Topology Monographs **2** (1999), 473-487.
27. *Mutation and gauge theory I: Yang-Mills invariants*, Comm. Math. Helv., **74** (1999), 615-641.
28. *Embedding tangles in links*, J. Knot Theory Ramifications **9** (2000), 523-530.
29. *Isospectrality and 3-manifold groups*, Proc. Amer. Math. Soc., Proc. Amer. Math. Soc. **129** (2001), 2467-2471.
30. *Mod 2 Seiberg-Witten invariants of homology tori*, (with Sašo Strle), Math Res. Lett., **7** (2000), no. 5-6, 789-799.
31. *Positive scalar curvature, diffeomorphisms, and the Seiberg-Witten equations.*, Geometry and Topology, Vol. 5 (2001) Paper no. 28, pages 895-924.

Recent Invited addresses.

Harvard Gauge Theory and Topology seminar, October 2001.
Séminaire Arthur Besse, École Polytechnique, Palaiseau, June 2001.
Trinity College gauge theory seminar, Dublin, May 2001.
University of Paris 6 Topology seminar, Paris, March 2001.
Séminaire de topologie symplectique, École Polytechnique, Palaiseau, November 2000.
Lecture series on Seiberg–Witten equations, University of Paris, Orsay, November–December 2000.
Séminaire de géométrie–topologie, University of Paris, Orsay, October 2000.
Topologie Conference, Oberwolfach, September 2000.
AMS Special Session on Gauge Theory, October 1999.
Marston Morse Conference, Institute for Advanced Studies, March 1999.
Boston University Geometry Seminar, November 1998.
Northeastern University Algebra/Singularities Seminar, November 1998.
Colloquium, Tulane University, October 1998.
Louisiana Topology Conference, October 1998.
MSRI Conference on Low-Dimensional Topology, June 1998.
Gökova Geometry-Topology Conference, May–June 1998.
Harvard Gauge Theory and Topology seminar, April 1998.
Ohio State University Topology seminar, March 1998.
Harvard Gauge theory and Topology seminar, March 1997.
MSRI (Berkeley) 4-manifolds workshop, January 1997.
Harvard Gauge theory and Topology seminar, May 1996.
Harvard Gauge Theory and Topology Seminar, October 1995.
Max Planck Institute, Bonn, May 1995.
Gökova Geometry-Topology conference, May 1995.
Cambridge University, April 1995.
Oxford Geometry seminar, January 1995.