

## Publications of Daniel Ruberman

1. *Smooth surfaces with non-simply-connected complements* (with H.-J. Kim), Algebraic & Geometric Topology **8** (2008) 2263–2287. DOI: 10.2140/agt.2008.8.2263
2. *Knot concordance and Heegaard Floer homology invariants in branched covers* (with E. Grigsby and S. Strle). Geometry and Topology, **12** (2008), no. 4, 2249–2275. <http://www.arxiv.org/abs/math.GT/0701460>.
3. *Algebraic and Heegaard-Floer invariants of knots with slice Bing doubles* (with J. C. Cha and C. Livingston). Math. Proc. Camb. Phil. Soc., **144**, No. 2 (2008), 403-410. <http://www.arxiv.org/abs/math.GT/0612419>.
4. *Topological triviality of smoothly knotted surfaces in 4-manifolds* (with H.-J. Kim), Trans. Amer. Math. Soc., **360** (2008), no. 11, 5869–5881.
5. *Dirac operators on manifolds with periodic ends* (with N. Saveliev). Gökava Geometry and Topology Journal, **1** (2007). 33-50. <http://gokovagt.org/journal/2007/jggt07-rubesave.pdf>
6. *Rohlin’s invariant and gauge theory III. Homology 4-tori* (with N. Saveliev), Geometry and Topology, **9** (2005) Paper no. 47, pages 2079-2127.
7. *Casson-type invariants in dimension four* (with N. Saveliev), Proceedings of the Fields-McMaster Conference on Geometry and Topology of Manifolds. Fields Institute Communications **47** (2005), 281-306. <http://arxiv.org/abs/math.GT/0501090>
8. *Rohlin’s invariant and gauge theory, I: Homology 3-tori* (with N. Saveliev), Comm. Math. Helv., **9** (2004), no. 3, 618–646. <http://arxiv.org/math.GT/0302131>.
9. *Rohlin’s invariant and gauge theory, II: Mapping tori* (with N. Saveliev), Geometry and Topology, **8** (2004) Paper no. 2, pages 35–76.
10. *Isospectrality and 3-manifold groups*, Proc. Amer. Math. Soc. **129** (2001), 2467-2471.
11. *Positive scalar curvature, diffeomorphisms, and the Seiberg-Witten equations.*, Geometry and Topology, Vol. 5 (2001) Paper no. 28, pages 895–924.
12. *Mod 2 Seiberg-Witten invariants of homology tori*, (with Sašo Strle), Math Res. Lett., **7** (2000), no. 5-6, 789–799.
13. *Embedding tangles in links*, J. Knot Theory Ramif. **9** (2000), no. 4, 523–530.
14. *A polynomial invariant of diffeomorphisms of 4-manifolds*, Geometry and Topology Monographs **2** (1999), 473–487.
15. *Mutation and gauge theory. I. Yang-Mills invariants*, Comment. Math. Helv. **74** (1999), no. 4, 615–641.
16. *An obstruction to smooth isotopy in dimension 4*, Math. Res. Lett. **5** (1998), 743–758.
17. *A sextic surface cannot have 66 nodes* (with D. Jaffe), J. Alg. Geom. **6** (1997), 151-168.
18. *Null-homotopic embedded codimension-one spheres*, pages 229-232 in “Tight and taut submanifolds,” Cambridge Univ. Press, Cambridge (1997).
19. *A fake  $\mathbf{CP}^2 \# \mathbf{RP}^4$*  (with R. Stern), Math. Res. Lett. **4** (1997), 375–378.
20. *Relations among Donaldson invariants arising from negative 2-spheres and tori*, Duke Math. J. **83** (1996), 645-660.
21. *Configurations of 2-spheres in the K3 surface and other 4-manifolds*, Math. Proc. Camb. Phil. Soc. **120** (1996), 247-253.
22. *The minimal genus of an embedded surface of non-negative square in a rational surface*, Turkish J. Math. **20** (1996), 129-133.
23. *Involutions on spin 4-manifolds*, Proc. Amer. Math. Soc. **123** (1995) 593-597.

24. “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).
25. *Splitting the spectral flow, and the Alexander matrix* (with P. Kirk and E. Klassen), *Comm. Math. Helv.* **69** (1994), 375-416.
26. *Smooth 2-spheres in homology K3 surfaces*, *Top. Appl.* **59** (1994), 1987-99.
27. *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.
28. *Cutting and pasting and the  $\eta$ -invariant* (with R. Meyerhoff), *Duke Math. J.* **61** (1990), 747-762.
29. *Mutation and the  $\eta$ -invariant* (with R. Meyerhoff), *J. Diff. Geom.* **31** (1990), 101-130.
30. *Seifert surfaces of knots in  $S^4$* , *Pacific J. Math.* **145** (1990), 97-116.
31. *Invariants of tangles* (with T. Cochran), *Math. Proc. Camb. Phil. Soc.* **105** (1989), 299-306.
32. *Rational homology cobordisms of rational space forms*, *Topology* **27** (1988), 401-414.
33. *Imbeddings and homology cobordisms of lens spaces* (with S. Cappell) *Comm. Math. Helv.* **63** (1988), 75-89.
34. *The Casson-Gordon invariants in high-dimensional knot theory*, *Trans. Amer. Math. Soc.* **306** (1988), 579-595.
35. *Mutation and volumes of knots in  $S^3$* , *Invent. Math.* **90** (1987), 189-215.
36. *Concordance of links in  $S^4$* , *Contemporary Math.* **35** (Four Manifold theory) (1984), 481-483.
37. *Invariant Knots of free involutions of  $S^4$* , *Top. Appl.* **18** (1984), 217-224.
38. *Doubly slice knots and the Casson-Gordon invariants*, *Trans. Amer. Math. Soc.* **279** (1983), 569-588.
39. *Imbedding punctured lens spaces and connected sums*, *Pacific J. Math.* **279** (1983), 569-588.
40. *Imbedding 4-manifolds and slicing links*, *Proc. Camb. Phil. Soc.* **91** (1982), 107-110.

### Preprints

1. *Topologically slice knots with nontrivial Alexander polynomial* (with C. Livingston and M. Hedden). <http://arxiv.org/abs/1001.1538>, (2010).
2. *Seiberg-Witten equations, end-periodic Dirac operators, and a lift of Rohlin’s invariant* (with T. Mrowka and N. Saveliev). <http://arxiv.org/abs/0905.4319>, (2009).
3. *The Seiberg-Witten invariants of manifolds with wells of negative curvature.* <http://www.arxiv.org/abs/math.GT/0205234>, (2002).