COMPLETE LIST OF PUBLICATIONS

Krzysztof Galicki

• Articles published or accepted for publication

- 1. On Sasakian η-Einstein Sasakian Geometry, Communications in Mathematical Physics 262 (2006), 177-208; (with C. P. Boyer and P. Matzeu).
- 2. Sasakian geometry Einstein metrics on spheres, proceedings of the Short Program on Riemannian Geometry, Centre de Recherche Mathématiques, Université de Montréal, June 28-July 16, 2004; to appear; (with C. P. Boyer).
- 3. *Einstein metrics on spheres*, **Annals of Mathematics** (2005), to appear (with C. P. Boyer and J. Kollár).
- 4. Einstein metrics on exotic spheres in dimension 7,11, and 15, Experimental Mathematics 14 (2005), 61-66; (with C. P. Boyer, J. Kollár, and E. Thomas).
- Sasakian Geometry, Hypersurface Singularities, and Einstein Metrics, Rendiconti del Circolo Matematico di Palermo (2), Suppl. No. 75 (2005), 57-87; (with C. P. Boyer).
- 6. Toric self-dual Einstein metrics as quotients, Communications in Mathematical Physics 253 (2005), 337-370; (with C. P. Boyer, D. M. J. Calderbank, and P. Piccinni).
- On Positive Sasakian Geometry, Geometriae Dedicata 101 (2003), 93-102; (with C. P. Boyer and M. Nakamaye).
- 8. New Einstein Metrics on $8\#(S^2 \times S^3)$, Differential Geometry and Its Applications 19 (2003); 245-251; (with C. P. Boyer).
- 9. The Geometry of Sasakian-Einstein 5-Manifolds, Mathematische Annalen 325 (2003), 485-524; (with C. P. Boyer and M. Nakamaye).
- 10. Sasakian Geometry, Homotopy Spheres, and Positive Ricci Curvature, **Topology 42** (2003), 981-1002; (with C. P. Boyer and M. Nakamaye).
- Einstein Metrics on Rational Homology 7-Spheres, Annales de l'Institut Fourier 52 (2002), 1569-1584; (with C. P. Boyer and M. Nakamaye).
- 12. Rational Homology 5-Spheres with Positive Ricci Curvature, Mathematical Research Letters 9 (2002), 521-528; (with C. P. Boyer).
- 13. Sasakian-Einstein Structures on $\#9(S^2 \times S^3)$, Transactions of the American Mathematical Society 354 (2002), 2983-2996; (with C. P. Boyer and M. Naka-maye).

- 14. 3-Sasakian Geometry, Nilpotent Orbits, and Exceptional Quotients, Annales of Global Analysis and Geometry 21 (2002), 85-110; (with C. P. Boyer and P. Piccinni).
- 15. New Einstein Metrics in Dimension Five, Journal of Differential Geometry 57 (2001); 443-463; (with C. P. Boyer).
- 16. Contact Geometry and Einstein Manifolds, Proceedings of the American Mathematical Society 129 (2001), 2419-2430; (with C. P. Boyer).
- 17. On Sasakian-Einstein Geometry, International Journal of Mathematics 11 (2000), 873-909; (with C. P. Boyer).
- 18. A Note on Contact Toric Geometry, Journal of Geometry and Physics 35 (2000), 288-298; (with C. P. Boyer).
- 19. 3-Sasakian Manifolds, Encyclopaedia of Mathematics, Supplement II, pp. 449-451, Kluwer Academic Publishers, (2000).
- 3-Sasakian Manifolds; Surveys in Differential Geometry VI: Essays on Einstein Manifolds A supplement to the Journal of Differential Geometry, pp. 123-184, (eds. C. LeBrun, M. Wang); International Press, Cambridge (1999); (with C. P. Boyer).
- 21. Quaternionic geometry and 3-Sasakian manifolds, Quaternionic structures in mathematics and physics (Trieste, 1994), 7–24 (electronic), Int. Sch. Adv. Stud. (SISSA), Trieste, (1998); (with C. P. Boyer and B. Mann).
- 22. Hypercomplex Structures From 3-Sasakian Structures, Journal für die reine und angewandte Mathematik 501 (1998), 115-141; (with C. P. Boyer and B. Mann).
- 23. A Note on Smooth Toral Reductions of Spheres, Manuscripta Mathematica 95 (1998), 149-158. (with C. P. Boyer and B. Mann).
- 24. Compact 3-Sasakian 7-Manifolds with Arbitrary Second Betti Number, Inventiones Mathematicae 131 (1998), 321-344; (with C. P. Boyer, B. Mann, and E. Rees).
- 25. The Twistor Space of a 3-Sasakian Manifolds, International Journal of Mathematics 8 (1997), 31-60; (with C. P. Boyer).
- Einstein Manifolds of Positive Scalar Curvature with Arbitrary Second Betti Number, Balkan Journal of Geometry and Its Applications 1, no. 2 (1996), 1-8. (with C. P. Boyer, B. Mann, and E. Rees).
- 27. On Betti Numbers of 3-Sasakian Manifolds, Geometriae Dedicata 63 (1996), 45-68; (with S. Salamon).
- 28. On Strongly Inhomogeneous Einstein Manifolds, Bulletin of London Mathematical Society 28 (1996), 401-408; (with C. P. Boyer and B. Mann).
- 29. Hypercomplex Structures on Stiefel Manifolds, Annals of Global Analysis and Geometry 14 (1996), 81-105; (with C. P. Boyer and B. Mann).

- Some New Examples of Inhomogeneous Hypercomplex Manifolds, Mathematical Research Letters 1 (1994), 531-538; (with C. P. Boyer and B. Mann).
- 31. Geometry and topology of 3-Sasakian manifolds, Journal für die reine und angewandte Mathematik 455 (1994), 183-220; (with C. P. Boyer and B. Mann).
- 32. New Examples of Inhomogeneous Einstein Manifolds of Positive Scalar Curvature, Mathematical Research Letters 1 (1994), 115-121; (with C. P. Boyer and B. Mann).
- 33. 3-Sasakian Manifolds, Proceedings of Japan Academy vol. 69, Ser. A, (1993), 335-340; (with C. P. Boyer and B. Mann).
- 34. Quaternionic Quotients and Einstein Manifolds, in Communications in Analysis and Geometry vol. 1, no. 2, (1993), 1-51; (with C. P. Boyer and B. Mann).
- 35. Nonzero Scalar Curvature Generalizations of the ALE Instantons, Journal of Mathematical Physics 33 (1992), 1765-1771; (with T. Nitta).
- 36. Geometry of the Scalar Couplings in N = 2 Supergravity Models, Classical and Quantum Gravity 9 (1992), 27-40.
- 37. Multicenter Metrics with Negative Cosmological Constant, Classical and Quantum Gravity 8 (1991), 1529-1543.
- Duality and Yang-Mills Fields on quaternionic Kähler manifolds, Journal of Mathematical Physics 32 (1991), 1263-1268; (with Y. S. Poon).
- Quaternionic Reduction and Quaternionic Orbifolds, Mathematische Annalen 282 (1988), 1-21; (with B.H. Lawson, Jr.)
- 40. A Generalization of Momentum Mapping Construction for Quaternionic Kähler Manifolds, Communications in Mathematical Physics 108 (1987), 117-138.
- 41. New Matter Couplings in N=2 Supergravity, Nuclear Physics B289 (1987), 573-588.
- 42. Hyperkähler and Quaternionic Kähler Nonlinear Sigma Models, Nuclear Physics B271 (1986), 402-416.
- 43. CP(n) nonlinear sigma models with holomorphic constraints in d=2,4 dimensions, **Physical Reviews D29** (1984), 1809-1818.

• Articles submitted for publication

- 1. *Einstein metric on rational homology spheres*, submitted to the Journal of Differential Geometry; (with C. P. Boyer).
- 2. *Highly connected manifolds with positive Ricci curvature*, submitted to Geometry and Topology; (with C. P. Boyer).

• To be submitted and in preparation

- 1. Constructions in Sasakian Geometry, in preparation; (with C. P. Boyer and L. Ornea).
- 2. *Sasakian Manifolds*, research monograph for the Oxford University Press; in preparation (with C. P. Boyer).
- 3. On Sasakian Futaki Invariants, in preparation; (with C. P. Boyer and S. Simanca).
- 4. Sasakian Geometry in Five Dimensions, in preparation; (with C. P. Boyer).

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