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).
5. *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).
7. *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).
11. *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. Nakamaye).

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).

20. *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).

26. *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).

30. *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.
38. *Duality and Yang-Mills Fields on quaternionic Kähler manifolds*, **Journal of Mathematical Physics 32** (1991), 1263-1268; (with Y. S. Poon).
39. *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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