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Autor: Braam, Peter J.

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§ 8. REFERENCES

- [1] ATIYAH, M. F. *Geometry of Yang-Mills fields*. Lezioni Fermiani, Accademia Nazionale dei Lincei Scuola Normale, Pisa 1979.
- [2] ——— *Magnetic monopoles in hyperbolic spaces*. Vector Bundles on Algebraic Varieties, Tata Institute of Fundamental Research, Bombay, 1984, Oxford University Press 1986.
- [3] ——— Green's functions for self-dual four-manifolds. In *Mathematical Analysis and Applications, Part A*, Adv. in Math. supplementary studies, Vol. 7A (1981), 129-158.
- [4] ATIYAH, M. F. and R. BOTT. The Yang-Mills equations over Riemann surfaces. *Phil. Trans. R. Soc. Lond. A* 308 (1982), 523-615.
- [5] ATIYAH, M. F., N. J. HITCHIN and I. M. SINGER. Self-duality in four-dimensional Riemannian geometry. *Proc. R. Soc. Lond.* 362 (1978), 425-461.
- [6] BEARDON, A. F. *The geometry of discrete groups*. Graduate Texts in Mathematics 91, Springer, 1984.
- [7] BERS, Lipman. Uniformization, moduli, and Kleinian groups, *Bull. London Math. Soc.* 4 (1972), 257-300.
- [8] BESSE, Arthur L. *Einstein manifolds*. Ergebnisse der Mathematik und ihrer Grenzgebiete, (3) Band 10, Springer, 1987.
- [9] BOWEN, Rufus. Hausdorff dimension of quasi-circles. *IHES, Publ. Math.* 50 (1979), 11-26.
- [10] BRAAM, Peter J. Magnetic monopoles on 3-manifolds. To appear in *J. Diff. Geom.*
- [11] BRAAM, Peter J. and Jaques HURTUBISE. Instantons on Hopf surfaces and magnetic monopoles on solid tori. To appear in *Crelle Journal der Mathematik*.
- [12] FREED, Daniel S. and Karen K. UHLENBECK. *Instantons and four-manifolds*. MSRI publications No. 1, Springer, 1984.
- [13] GAILLARD, P.-Y. Transformation de Poisson de formes différentielles. Le cas de l'espace hyperbolique. *Comment. Math. Helvetici* 61 (1986), 581-616.
- [14] GLEASON, A. M. Spaces with a compact Lie group of transformations. *Proc. AMS* (1) 826 (1950), 35-43.
- [15] GROMOV, M. and H. B. LAWSON. Spin and scalar curvature in the presence of a fundamental group. *Ann. of Math.* 111 (1980), 209-230.
- [16] HADAMARD, J. Sur les solutions asymptotiques des équations différentielles. *Bull. Soc. Math. France* 29 (1901), 224-228.
- [17] HEMPEL, John. *3-Manifolds*. Annals of Mathematics Studies, Number 86, Princeton University Press, 1976.
- [18] HITCHIN, N. J. Linear field equations on self-dual spaces. *Proc. R. Soc. Lond. A.* 370 (1980), 173-191.
- [19] ——— Kählerian twistor spaces. *Proc. London Math. Soc.* (3) 43 (1981), 133-150.
- [20] ——— Monopoles and geodesics. *Commun. Math. Phys.* 83 (1982), 579-602.
- [21] HÖRMANDER, Lars. *The analysis of linear partial differential operators I*. Grundlehren der Mathematischen Wissenschaften 256, Springer, 1983.
- [22] JAFFE, Arthur and Clifford TAUBES. *Vortices and monopoles*. Progress in Physics 2, Birkhäuser, 1980.
- [23] KODAIRA, K. A theorem of completeness of characteristic systems for analytic families of compact submanifolds of complex manifolds. *Ann. Math. Princeton* 75 (1962), 146-162.

- [24] LEBRUN, Claude. On the topology of self-dual 4-manifolds. *Proc. AMS Vol. 98, No. 4* (1968), 637-640.
- [25] MANDOUVALOS, N. The theory of Eisenstein series for Kleinian groups. *Contemporary Mathematics Vol. 53* (1986), 357-370.
- [26] MARDEN, Albert. The geometry of finitely generated Kleinian groups. *Ann. of Maths. (2)* 99 (1974), 383-462.
- [27] MASKIT, Bernard. *Kleinian groups*. Grundlehren der Mathematischen Wissenschaften, Springer, 1987.
- [28] ———. Panelled web groups. *Proc., Oaxtapec, Mexico*, 1981, Ed. D. M. Gallo & R. M. Porter, LNM 971, Springer, 1983.
- [29] MORGAN, John W. On Thurston's uniformization theorem for three-dimensional manifolds. Chapter 5 in *Proceedings of the Smith Conjecture Symposium*, Columbia University 1979, ed. J. Morgan & H. Bass, Academic Press, 1984.
- [30] OSHIMA, T. Boundary value problems for systems of linear partial differential equations with regular singularities. *Adv. Studies in Pure Mathematics 4* (1984), *Group representations and systems of differential equations*, 391-432.
- [31] SCHIFFMAN, G. Intégrales d'entrelacement et fonctions de Whittaker. *Bull. Soc. Math. France* 99 (1971), 489-578.
- [32] SCHLICHTKRULL, H. *Hyperfunctions and harmonic analysis on symmetric spaces*. Progress in mathematics vol. 49, Birkhäuser Boston Inc., 1984.
- [33] SCHOEN, R. Conformal deformation of a Riemannian metric to constant scalar curvature. *J. Diff. Geom.* 20 (1984), 479-495.
- [34] SCHOEN, R. and S.-T. YAU. Conformally flat manifolds, Kleinian Groups and Scalar Curvature. University of California, San Diego, preprint 1986.
- [35] STIEFEL, E. Richtungsfelder und Fernparallelismus in n -dimensionalen Manigfaltigkeiten. *Comm. Math. Helv.* 8 (1935/1936), 305-353.
- [36] SULLIVAN, D. Related aspects of positivity in Riemannian geometry. *J. Diff. Geom.* 25 (3) (1987), 327-352.
- [37] THURSTON, W. P. Private Communication.
- [38] SCHOEN, R. and S.-T. YAU. On the structure of manifolds with positive scalar curvature. *Manuscripta Math.* 28 (1979).

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Peter J. Braam

Merton College
Oxford, OX1 4JD, U.K.

and

University of Utah
Salt Lake City, UT 84112
USA

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