

参考文献

1. 第1部：スピン幾何まとめ

((b), (f), (i) がスピン幾何の標準的なテキストです)

- (a) M. F. Atiyah, N. J. Hitchin and I. M. Singer, *Self-duality in four-dimensional Riemannian geometry*, Proc. R. Soc. Lond., A **362**, (1978), 425-461.
- (b) H. Baum, Th. Friedrich, R. Grunewald and I. Kath, *Twistors and Killing spinors on Riemannian manifolds*, Teubner-Verlag, Leipzig/Stuttgart 1991.
- (c) C. Bär *On Harmonic spinor*, Gauge theories of gravitation (Jadwisin, 1997). Acta Phys. Polon. B 29 (1998), no. 4, 859–869. 58G05 (58A14 58G30)
- (d) C. Bär *Harmonic spinors and topology*, New developments in differential geometry, Budapest 1996, 53–66, Kluwer Acad. Publ., Dordrecht, 1999.
- (e) C. Bär *Real Killing spinors and holonomy*, Comm. Math. Phys. 154 (1993), no. 3, 509–521.
- (f) Th. Friedrich *Dirac operators in Riemannian Geometry*, Graduate Studies in Mathematics 25, AMS
- (g) O. Hijazi *A conformal lower bound for the smallest eigenvalue of the Dirac operator and Killing spinors*, Comm. Math. Phys. 104 (1986), 151-162.
- (h) N. Hitchin *Harmonic spinors*, Adv. Math. 14, 1-55 (1974)
- (i) H. B. Lawson and M. L. Michelsohn, *Spin Geometry*, Princeton Univ. Press, Princeton, 1989.
- (j) M. Wang *On non-simply connected manifolds with non-trivial parallel spinors*, Ann. Glob. Anal Geom. 13, p 31-42, (1995).

2. 第2部：Gradientsへ

- (a) O. Avramidi and T. Branson, *A discrete leading symbol and spectral asymptotics for natural differential operators*, Special issue dedicated to the memory of I. E. Segal. J. Funct. Anal. 190 (2002), no. 1, 292–337.

- (b) I. Avramidi and T. Branson, *Heat kernel asymptotics of operators with non-Laplace principal part*, Rev. Math. Phys. **13** (2001), no. 7, 847–890.
- (c) T. Branson, *Harmonic analysis in vector bundles associated to the rotation and spin groups*, J. Funct. Anal. **106** (1992), 314–328.
- (d) T. Branson, *Stein-Weiss operators and ellipticity*, J. Funct. Anal. **151**, (1997), 334–383.
- (e) T. Branson, *Nonlinear phenomena in the spectral theory of geometric linear differential operators*, Proc. Sympos. Pure. Math., **59**, Amer. Math. Soc., Providence, RI, (1996), 27–65.
- (f) T. Branson, *Kato constants in Riemannian geometry*, Math. Res. Lett. **7** (2000), no. 2-3, 245–261.
- (g) T. Branson and O. Hijazi, *Vanishing theorems and eigenvalue estimates in Riemannian spin geometry*, Internat. J. Math. **8**, (1997), 921–934.
- (h) T. Branson and O. Hijazi, *Improved forms of some vanishing theorems in Riemannian spin geometry*, Internat. J. Math., **11**, (2000), 291–304.
- (i) T. Branson, and O. Hijazi, *Bochner-Weitzenböck formulas associated with the Rarita-Schwinger operator*, Internat. J. Math. **13** (2002), no. 2, 137–182
- (j) T. Branson, G. Olafsson and B. Ørsted, *Spectrum generating operators and intertwining operators for representations induced from a maximal parabolic subgroup*, J. Funct. Anal. **135** (1996), no. 1, 163–205.
- (k) J. Bureš, *The higher spin Dirac operators*, in ‘Differential geometry and applications’, Masaryk Univ., Brno, (1999), 319–334.
- (l) J. Bureš and V. Souček, *Eigenvalues of conformally invariant operators on spheres*, in ‘The 18th Winter School “Geometry and Physics”’, Rend. Circ. Mat. Palermo (2) Suppl. No. 59, (1999), 109–122.

- (m) D. Calderbank, P. Gauduchon, M. Herzlich, *Refined Kato inequalities and conformal weights in Riemannian geometry*, J. Funct. Anal. **173** (2000) 214-255
- (n) H. D. Fegan, *Conformally invariant first order differential operators*, Quart. J. Math. Oxford, **27** (1976), 371-378.
- (o) E. M. Stein and G. Weiss, *Generalization of the Cauchy-Riemann equations and representation of the rotation group*, Amer. J. Math. **90**, (1968), 163-196.