

The following list of references are for the 15 lectures. It is by no means complete or even representative. For a more complete list of references see [8] or [10].

References

- [1] Besse, Arthur L. *Einstein manifolds*. Ergebnisse der Mathematik und ihrer Grenzgebiete (3) [Results in Mathematics and Related Areas (3)], **10**. Springer-Verlag, Berlin, 1987. xii+510 pp.
- [2] Bryant, Robert. Unpublished results on Ricci solitons.
- [3] Cao, Huai-Dong. *Existence of gradient Kähler-Ricci solitons*. Elliptic and parabolic methods in geometry (Minneapolis, MN, 1994), 1–16, A K Peters, Wellesley, MA, 1996.
- [4] Cao, Huai-Dong; Chow, Bennett; Chu, Sun-Chin, Yau, Shing-Tung, editors. *Collected papers on Ricci flow*. Internat. Press, Somerville, MA, 2003.
- [5] Carfora, M.; Isenberg, James; Jackson, Martin. *Convergence of the Ricci flow for metrics with indefinite Ricci curvature*. J. Diff. Geom. **31** (1990) 249-263.
- [6] Cheeger, Jeff; Ebin, David G. *Comparison theorems in Riemannian geometry*. North-Holland Mathematical Library, Vol. 9. North-Holland Publishing Co., Amsterdam-Oxford; American Elsevier Publishing Co., Inc., New York, 1975.
- [7] Chow, Bennett; Chu, Sun-Chin; Glickenstein, David; Guenther, Christine; Isenberg, Jim; Ivey, Tom; Knopf, Dan; Lu, Peng; Luo, Feng; Ni, Lei. *The Ricci flow: techniques and applications*. In preparation.
- [8] Chow, Bennett; Knopf, Dan. *The Ricci flow: An introduction*, Mathematical Surveys and Monographs, AMS, Providence, RI, 2004.
- [9] Chow, Bennett; Lu, Peng. *The maximum principle for systems of parabolic equations subject to an avoidance set*. Pacific J. Math. **214** (2004), no. 2, 201–222.
- [10] Chow, Bennett; Lu, Peng; Ni, Lei. *Hamilton's Ricci flow*. Preliminary version of book to be published by Science Press, China.
- [11] DeTurck, Dennis M. *Deforming metrics in the direction of their Ricci tensors*. J. Differential Geom. **18** (1983), no. 1, 157–162.
- [12] DeTurck, Dennis M. *Deforming metrics in the direction of their Ricci tensors, improved version*. In *Collected Papers on Ricci Flow*, ed. H.-D. Cao, B. Chow, S.-C. Chu, and S.-T. Yau. Internat. Press, Somerville, MA, 2003.

- [13] Eisenhart, Luther Pfahler. *Riemannian geometry*. Eighth printing. Princeton Landmarks in Mathematics. Princeton Paperbacks. Princeton University Press, Princeton, NJ, 1997.
- [14] Feldman, Mikhail; Ilmanen, Tom; Knopf, Dan. *Rotationally symmetric shrinking and expanding gradient Kähler–Ricci solitons*. J. Differential Geom. **65** (2003), no. 2, 169–209.
- [15] Gutperle, Michael; Headrick, Matthew; Minwalla, Shiraz; Schemerus, Volker. *Spacetime Energy Decreases under World-sheet RG Flow*. arXiv:hep-th/0211063.
- [16] Hamilton, Richard S. *Harmonic maps of manifolds with boundary*. Lecture Notes in Mathematics, Vol. **471**. Springer-Verlag, Berlin-New York, 1975.
- [17] Hamilton, Richard S. *Three-manifolds with positive Ricci curvature*. J. Differential Geom. **17** (1982), no. 2, 255–306.
- [18] Hamilton, Richard S. *Four-manifolds with positive curvature operator*. J. Differential Geom. **24** (1986), no. 2, 153–179.
- [19] Hamilton, Richard S. *The Ricci flow on surfaces*. Mathematics and general relativity (Santa Cruz, CA, 1986), 237–262, Contemp. Math., **71**, Amer. Math. Soc., Providence, RI, 1988.
- [20] Hamilton, Richard S. *The Harnack estimate for the Ricci flow*. J. Differential Geom. **37** (1993), no. 1, 225–243.
- [21] Hamilton, Richard S. *Eternal solutions to the Ricci flow*. J. Diff. Geom. **38** (1993) 1-11.
- [22] Hamilton, Richard S. *The formation of singularities in the Ricci flow*. Surveys in differential geometry, Vol. II (Cambridge, MA, 1993), 7–136, Internat. Press, Cambridge, MA, 1995.
- [23] Hamilton, Richard S. *Non-singular solutions of the Ricci flow on three-manifolds*. Comm. Anal. Geom. **7** (1999), no. 4, 695–729.
- [24] Hamilton, Richard; Isenberg, James. *Quasi-convergence of Ricci flow for a class of metrics*. Comm. Anal. Geom. **1** (1993), no. 3-4, 543–559.
- [25] Isenberg, James; Jackson, Martin. *Ricci flow of locally homogeneous geometries on closed manifolds*. J. Differential Geom. **35** (1992), no. 3, 723–741.
- [26] Isenberg, James; Jackson, Martin; Lu, Peng. *Ricci flow on locally homogeneous closed 4-manifolds*. To appear in Comm. Anal. Geom. arXiv:math.DG/0502170.
- [27] Ivey, Tom. *On solitons for the Ricci Flow*. PhD thesis, Duke University, 1992.

- [28] Ivey, Tom. *Ricci solitons on compact three-manifolds*. Diff. Geom. Appl. **3** (1993), 301–307.
- [29] Ivey, Tom. *New examples of complete Ricci solitons*. Proc. Amer. Math. Soc. **122** (1994), 241–245.
- [30] Kazdan, Jerry L.; Warner, Frank W. *Curvature functions for compact 2-manifolds*. Ann. of Math. (2) **99** (1974), 14–47.
- [31] Knopf, Dan. *Quasi-convergence of the Ricci flow*. Comm. Anal. Geom. **8** (2000), no. 2, 375–391.
- [32] Knopf, Dan; McLeod, Kevin. *Quasi-convergence of model geometries under the Ricci flow*. Comm. Anal. Geom. **9** (2001), no. 4, 879–919.
- [33] Koiso, Norihito. *On rotationally symmetric Hamilton’s equation for Kähler-Einstein metrics*. Recent topics in differential and analytic geometry, 327–337, Adv. Stud. Pure Math., 18-I, Academic Press, Boston, MA, 1990.
- [34] Milnor, John. *Curvatures of left invariant metrics on Lie groups*. Advances in Math. **21** (1976), no. 3, 293–329.
- [35] Rosenau, Philip. *On fast and super-fast diffusion*. Phys. Rev. Lett. **74** (1995) 1056–1059.
- [36] Shi, Wan-Xiong. *Deforming the metric on complete Riemannian manifolds*. J. Differential Geom. **30** (1989), no. 1, 223–301.
- [37] Shi, Wan-Xiong. *Ricci deformation of the metric on complete noncompact Riemannian manifolds*. J. Differential Geom. **30** (1989), no. 2, 303–394.
- [38] Singer, I. M.; Thorpe, J. A. *Lecture notes on elementary topology and geometry*. Reprint of the 1967 edition. Undergraduate Texts in Mathematics. Springer-Verlag, New York-Heidelberg, 1976.
- [39] Thurston, William P. *Three-dimensional geometry and topology*. Vol. 1. Edited by Silvio Levy. Princeton Mathematical Series, **35**. Princeton University Press, Princeton, NJ, 1997.