

REFERENCES ON CONVERGENCE GROUPS RELATED TO THE YGGT IX LECTURES

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This list of references is supposed to cover the material of the course. It is not exhaustive, so I apologize for those that are missing.

CONVERGENCE GROUPS: GENERAL PROPERTIES

- [1] Frederik W. Gehring and Gaven J. Martin. Discrete quasiconformal groups. I. *Proc. London Math. Soc.* (3) **55**(1987), 331–358.
- [2] Brian H. Bowditch. Convergence groups and configuration spaces. In *Geometric group theory down under (Canberra, 1996)*, pages 23–54. de Gruyter, Berlin, 1999.
- [3] Pierre-Emmanuel Caprace, Yves Cornuier, Nicolas Monod and Romain Tessera. Amenable hyperbolic groups. *J. Eur. Math. Soc.* **17**(2015), no. 11, 2903–2947.
- [4] Pekka Tukia. Convergence groups and Gromov’s metric hyperbolic spaces. *New Zealand J. Math.* **23**(1994), 157–187.
- [5] Pekka Tukia. Erratum: “Convergence groups and Gromov’s metric hyperbolic spaces” [New Zealand J. Math. **23** (1994), no. 2, 157–187; MR1313451 (96c:30042)]. *New Zealand J. Math.* **25**(1996), 105–106.
- [6] Pekka Tukia. Conical limit points and uniform convergence groups. *J. Reine Angew. Math.* **501**(1998), 71–98.

FLOYD BOUNDARIES

- [1] William J. Floyd. Group completions and limit sets of Kleinian groups. *Invent. Math.* **57**(1980), 205–218.
- [2] Victor Gerasimov. Floyd maps for relatively hyperbolic groups. *Geom. Funct. Anal.* **22**(2012), 1361–1399.
- [3] Anders Karlsson. Free subgroups of groups with nontrivial Floyd boundary. *Comm. Algebra* **31**(2003), 5361–5376.
- [4] Pekka Tukia. A remark on a paper by Floyd. In *Holomorphic functions and moduli, Vol. II (Berkeley, CA, 1986)*, volume 11 of *Math. Sci. Res. Inst. Publ.*, pages 165–172. Springer, New York, 1988.

QUASI-MÖBIUS ACTIONS

- [1] Peter Haïssinsky. Actions of quasi-Möbius groups. In *Handbook of group actions. Vol. IV*, volume 41 of *Adv. Lect. Math. (ALM)*, pages 23–94. Int. Press, Somerville, MA, 2018.
- [2] Jacqueline Lelong-Ferrand. Transformations conformes et quasi-conformes des variétés riemanniennes compactes (démonstration de la conjecture de A. Lichnerowicz). *Acad. Roy. Belg. Cl. Sci. Mém. Coll. in-8deg (2)* **39**(1971), 44.
- [3] Jacqueline Ferrand. The action of conformal transformations on a Riemannian manifold. *Math. Ann.* **304**(1996), 277–291.
- [4] Jacqueline Ferrand. Convergence and degeneracy of quasiconformal maps of Riemannian manifolds. *J. Anal. Math.* **69**(1996), 1–24.
- [5] Frédéric Paulin. Un groupe hyperbolique est déterminé par son bord. *J. London Math. Soc.* (2) **54**(1996), 50–74.
- [6] Jussi Väisälä. Quasi-Möbius maps. *J. Analyse Math.* **44**(1984/85), 218–234.

CONVERGENCE GROUPS VS HYPERBOLICITY

- [1] Brian H. Bowditch. A topological characterisation of hyperbolic groups. *J. Amer. Math. Soc.* **11**(1998), 643–667.
- [2] Victor Gerasimov. Expansive convergence groups are relatively hyperbolic. *Geom. Funct. Anal.* **19**(2009), 137–169.
- [3] Bin Sun. A dynamical characterization of acylindrically hyperbolic groups. *Algebr. Geom. Topol.* **19**(2019), 1711–1745.
- [4] Asli Yaman. A topological characterisation of relatively hyperbolic groups. *J. Reine Angew. Math.* **566**(2004), 41–89.

ACTIONS ON THE 2-SPHERE

- [1] Mario Bonk and Bruce Kleiner. Quasisymmetric parametrizations of two-dimensional metric spheres. *Invent. Math.* **150**(2002), 127–183.
- [2] Mario Bonk and Bruce Kleiner. Conformal dimension and Gromov hyperbolic groups with 2-sphere boundary. *Geom. Topol.* **9**(2005), 219–246 (electronic).
- [3] James W. Cannon. The theory of negatively curved spaces and groups. In *Ergodic theory, symbolic dynamics, and hyperbolic spaces (Trieste, 1989)*, Oxford Sci. Publ., pages 315–369. Oxford Univ. Press, New York, 1991.
- [4] James W. Cannon and Eric L. Swenson. Recognizing constant curvature discrete groups in dimension 3. *Trans. Amer. Math. Soc.* **350**(1998), 809–849.
- [5] Peter Haïssinsky. Critère de V. Markovic pour la conjecture de Cannon. Preprint, accessible at <http://phaissin.perso.math.cnrs.fr/Doc/cc-gpescvce.pdf>, 2013.
- [6] Peter Haïssinsky. Hyperbolic groups with planar boundaries. *Invent. Math.* **201**(2015), 239–307.
- [7] Vladimir Markovic. Criterion for Cannon’s conjecture. *Geometric and Functional Analysis* **23**(2013), 1035–1061.
- [8] Gaven J. Martin and Richard K. Skora. Group actions of the 2-sphere. *Amer. J. Math.* **111**(1989), 387–402.
- [9] Gaven J. Martin and Pekka Tukia. Convergence and Möbius groups. In *Holomorphic functions and moduli, Vol. II (Berkeley, CA, 1986)*, volume 11 of *Math. Sci. Res. Inst. Publ.*, pages 113–140. Springer, New York, 1988.
- [10] Dennis Sullivan. On the ergodic theory at infinity of an arbitrary discrete group of hyperbolic motions. In *Riemann surfaces and related topics: Proceedings of the 1978 Stony Brook Conference (State Univ. New York, Stony Brook, N.Y., 1978)*, volume 97 of *Ann. of Math. Stud.*, pages 465–496, Princeton, N.J., 1981. Princeton Univ. Press.