

SCAN ALGORITHMS AND HECKE ALGEBRAS

LIST OF TALKS

- (1) Introduction and probabilistic background, [3, (1,2a-2c)]: Guido
18.6.08
- (2) Basic properties of Hecke algebras, [3, (3a,3b)], [1, (§11D)]: Jean-Marie
18.6.08
- (3) Basic properties of finite reflection groups, [5, (1.1,1.6,1.9,1.10,1.11,3.5,3.7)]: Nils
2.7.08
- (4) Stationary distributions on finite reflection groups, [3, (2e)]: Guido
2.7.08
- (5) Iwahori-Hecke algebras, Metropolis walks and systematic scans on W , [2, §68], [3, (3c,4a-b)]: Daiva
9.7.08
- (6) Examples: Hypercubes and dihedral groups, [3, (5,6)]: Probabilist, t.b.a.
9.7.08
- (7) Examples: Symmetric groups I, [3, (7a-7b)], [4]: Andre
11.7.08
- (8) Examples: Symmetric groups II, [3, (7c)]: Probabilist, t.b.a.
16.7.08

REFERENCES

- [1] C. Curtis and I. Reiner, *Methods of Representation Theory, I*. Wiley Interscience, New York 1990.
- [2] ———, *Methods of Representation Theory, II*. Wiley Interscience, New York 1990.
- [3] P. Diaconis and A. Ram, *Analysis of systematic scan Metropolis algorithms using Iwahori-Hecke algebra techniques*. Michigan Math. J. **48** (2000), 157–190.
- [4] W. Fulton, *Young Tableaux*. London Math. Soc. Student Texts **35**. Cambridge University Press, 1997.
- [5] J. Humphreys, *Reflection Groups and Coxeter Groups*. Cambridge Studies in Advanced Mathematics **29**, Cambridge University Press, 1990.