Math 776 presentations

Everyone who is taking Math 776 for credit should present one paper by the end of the term. These presentations should be about 20 minutes long. The following is a list of suggested papers — if you find another paper which you would like to present instead, please let me know and we can discuss it. Please let me know what you plan to present by Friday, February 24.

References

[1] Eric Babson and Dmitry N. Kozlov. Complexes of graph homomorphisms. *Israel J. Math.*, 152:285–312, 2006.

[2] Imre Bárány and Attila Pór. On 0–1 polytopes with many facets. *Adv. Math.*, 161(2):209–228, 2001.

[3] Louis J. Billera and Bernd Sturmfels. Fiber polytopes. *Ann. of Math. (2)*, 135(3):527–549, 1992.

[4] Zeev Dvir. On the size of Kakeya sets in finite fields. *J. Amer. Math. Soc.*, 22(4):1093–1097, 2009.

[5] David Eppstein, Greg Kuperberg, and Günter M. Ziegler. Fat 4-polytopes and fatter 3-spheres. In *Discrete geometry*, volume 253 of *Monogr. Textbooks Pure Appl. Math.*, pages 239–265. Dekker, New York, 2003.

[6] Larry Guth and Nets Katz. On the Erdős distinct distance problem in the plane. arXiv:1011.4105, 2010.

[7] J. Huh. Milnor numbers of projective hypersurfaces and the chromatic polynomial of graphs. arXiv:1008.4749, to appear in J. Amer. Math Soc., 2010.

[8] Gil Kalai. Rigidity and the lower bound theorem. I. *Invent. Math.*, 88(1):125–151, 1987.

[9] Gil Kalai. Many triangulated spheres. *Discrete Comput. Geom.*, 3(1):1–14, 1988.

[10] Caroline J. Klivans and Ed Swartz. Projection volumes of hyperplane arrangements. *Discrete Comput. Geom.*, 46(3):417–426, 2011.

[11] László Lovász and Alexander Schrijver. A Borsuk theorem for antipodal links and a spectral characterization of linklessly embeddable graphs. *Proc. Amer. Math. Soc.*, 126(5):1275–1285, 1998.

[12] Francisco Santos. A counterexample to the Hirsch conjecture. arXiv:1006.2814, to appear in Annals of Math, 2010.