**Math 6502 presentations**

Everyone who is taking Math 6502 for credit is asked to present one paper by the end of the term. The following is a list of suggested papers. but if you find another paper that you would like to present instead, please let me know and I will consider it.

# References


[1] Miklós Ajtai, János Komlós, and Endre Szemerédi. The longest path in a random graph. *Combinatorica*, 1(1):1–12, 1981.

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

[3] Dave Bayer and Persi Diaconis. Trailing the dovetail shuffle to its lair. *Ann. Appl. Probab.*, 2(2):294–313, 1992.

[4] Itai Benjamini and László Lovász. Harmonic and analytic functions on graphs. *J. Geom.*, 76(1-2):3–15, 2003. Combinatorics, 2002 (Maratea).

[5] Henry Cohn, Noam Elkies, and James Propp. Local statistics for random domino tilings of the Aztec diamond. *Duke Math. J.*, 85(1):117–166, 1996.

[6] John D. Dixon. The probability of generating the symmetric group. *Math. Z.*, 110:199–205, 1969.

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

[8] Curtis Greene, Albert Nijenhuis, and Herbert S. Wilf. A probabilistic proof of a formula for the number of Young tableaux of a given shape. *Adv. in Math.*, 31(1):104–109, 1979.

[9] Bob Hough. Solution of the minimum modulus problem for covering systems. *Ann. of Math. (2)*, 181(1):361–382, 2015.

[10] Peter Keevash. The existence of designs. arXiv:1401.3665, 2014.

[11] János Komlós, János Pintz, and Endre Szemerédi. A lower bound for Heilbronn's problem. *J. London Math. Soc. (2)*, 25(1):13–24, 1982.