"Another roof, another proof." – Paul Erdős

The Trivial Notions Seminar
Proudly Announces

Optimal end-game strategy for Dots and Boxes. Also, the number of labelled r-regular graphs is asymptotically $\sqrt{2}e^{-(r^2-1)/4}\left(\frac{r^{r/2}}{e^{r/2}r!}\right)^n n^{rn/2}$.

A talk by
Hunter Spink

Abstract

Dots and Boxes is a children's game where we alternate drawing line segments in a finite rectangular grid of points. Every time a square is made, the player writes their initial in the square and makes another move, and whoever ends up with the most squares wins. Hopefully I can teach you (and myself before I have to give the talk), the optimal "end-game" strategy, where the board has been reduced to paths and cycles. If we have time, I will also show the number of labelled r-regular graphs is asymptotically $\sqrt{2}e^{-(r^2-1)/4}\left(\frac{r^{r/2}}{e^{r/2}r!}\right)^n n^{rn/2}$.

Thursday April 13th, at 12:00 pm
Science Center 232