MATT MCGINNIS, University of Delaware

The smallest eigenvalues of Hamming and Johnson graphs

We prove a conjecture by Van Dam and Sotirov on the smallest eigenvalue of (distance-j) Hamming graphs and a conjecture by Karloff on the smallest eigenvalue of (distance-j) Johnson graphs. This is joint work with Andries Brouwer, Sebastian Cioabă and Ferdinand Ihringer.