

1020-05-100

Patricia Hersh* (phersh@indiana.edu), Patricia Hersh, Dept. of Math, Indiana University, Rawles Hall, Bloomington, IN 47405, and **Ed Swartz**. *A convex ear decomposition for the coloring complex.*

We provide a convex ear decomposition for the coloring complex and related simplicial complexes. By results of Chari, Steingrimsson, and Swartz, these impose strong new restrictions on the chromatic polynomials of all finite graphs. (Received August 18, 2006)