Sarah Crown
University of Michigan

"Cyclic Homology of the Coloring Complex of Simple, Connected Graphs"

Monday, September 18, 2006

Talk at 4:15 – Park 328
Tea at 3:45 – Park 355, Math Lounge

Abstract:
In 2000, Steingrimsson introduced the coloring complex of a graph, and then in 2005, Jonsson proved that the homology of the coloring complex of a simple graph is concentrated at top degree. In this talk, we will discuss a relationship between the dimensions of the cyclic homology groups of the coloring complex of a simple, connected graph, G, and the coefficient of the linear term of the chromatic polynomial of G.