**Counting Graphs with the Sperner Property**

John L. Pfaltz, University of Virginia

A collection of sets {Ci} has the Sperner property if for all i, j, I ≠ j, one cannot have Ci ⊆ Cji.e. no set is contained in another. Undirected graphs comprised of chordless cycles (antithesis of chordal graphs) are easily shown to have Sperner property. We count the number of chordless cycle graphs with n elements. It is thought that protein polymers of chordless cycles may play a role in human memory.

Keywords: Sperner, chordless cycles, protein polymers