1037-05-184 **Ron Aharoni*** (`ra@tx.technion.ac.il`), Math Dpt. Technion, Haifa, Israel. *The topological connectivity of the complex of independent sets of a graph.*

Topological connectivity of the independence complex (the set of independent sets) of a graph has proved to be a powerful tool in various types of problems. For example, in finding independent sets that satisfy certain additional conditions, or in coloring problems. I will survey results concerning lower bounds on the connectivity, and their applications. (Received February 01, 2008)