1077-05-417 Linda M. Lesniak* (lindalesniak@gmail.com). *Chvátal's t*₀-*tough conjecture*. Preliminary report.

For a nonnegative real number t, a noncomplete graph G is t - tough if $|S| \ge t \cdot k(G - S)$ for every vertex cut S of G, where k(G - S) denotes the number of components of G - S. In 1973, Chvátal conjectured that there exists a t_0 such that every t-tough graph is hamiltonian. The history and current status of this conjecture will be discussed. (Received August 30, 2011)