1022-05-99 Maria Axenovich\* (axenovic@iastate.edu), 396 Carver Hall, Ames, IA 50011, and Jozsef Balogh, University of Illinois at Urbana-Champaign. *Reconstructing graphs with small number of* sizes on induced subgraphs.

Let G be a graph on n vertices, and let l be a positive integer. We prove that if the number of sizes on induced k-vertex subgraphs of G is at most l, for some k,  $2l \le k \le n - 2l + 1$ , then G has a trivial set of size at least n - l + 1, and a homogeneous set of size at least n - 2l + 2. Thus, if l is small then G is "almost" reconstructible, except for a subgraph on a small number of vertices. (Received September 10, 2006)