1022-05-153 **Zoltan Furedi\*** (z-furedi@math.uiuc.edu), Department of Mathematics, University of Illinois, 1409 W Green Street, Urbana, IL 61801. *Graph representations: measured intersections.* Preliminary report.

A hypergraph  $\mathcal{H} = \{H_1, \ldots, H_n\}$  is called a *k*-representation of the graph G if  $V(G) = \{1, 2, \ldots, n\}$  and (i, j) is an edge if and only if  $\max\{|H_i \setminus H_j|, |H_j \setminus H_i|\} \ge k$ . Let  $k(G) := \min k$ .

Improving earlier results of Boros, Gurvich and Meshulam (2004) we show that for most *n*-vertex graphs k(G) is asymptopic to  $\Theta(n/\log n)$ . (Received September 12, 2006)