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 $\mathcal{H}=\left\{H_{1}, \ldots, H_{n}\right\}$ 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 $\max \left\{\left|H_{i} \backslash H_{j}\right|,\left|H_{j} \backslash H_{i}\right|\right\} \geq k$. 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)

