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*Broadcasting on Knödel graphs and minimum average broadcast graphs*

Broadcasting in a graph,  $G$ , on  $n$  vertices, consists of spreading a message from one vertex to all other vertices. If broadcasting from any originator can finish in  $\lceil \log n \rceil$  time units,  $G$  is called minimal broadcast graph; if the number of edges is the minimum possible,  $B(n)$ ,  $G$  becomes a minimum broadcast graph. In this paper, we will enhance studies about broadcasting on a specific topology called Knödel graph, helping us to extend upper bound for  $B(n)$  and to find minimum average broadcast graphs for a wider range of integers. This is a joint work with Hovhannes Harutyunyan.