Meeting: 999, Nashville, Tennessee, SS 14A, Special Session on Graph Theory and Matroid Theory

999-05-204   **Andras Gyarfas** (`gyarfas@sztaki.hu`), P. O. Box 63, 1518, Budapest, Hungary, **Jeno Lehel***
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Memphis, TN 38152, and **Richard H. Schelp** (`schelpr@msci.memphis.edu`), Department of
Mathematical Sciences, The University of Memphis, Memphis, TN 38152. *Finding a
monochromatic subgraph or a rainbow path.*

Let $f(G, H)$ denote the least integer n such that every coloring of the edges of a clique K_n contains either a monochromatic
copy of the graph G or a rainbow colored copy of the graph H. Here we investigate how f relates to the usual Ramsey
and the local Ramsey numbers for particular cases of G or H. We show that for the paths $P_k, k = 4, 5, f(G, P_k)$ equals
the $(k-2)$–color diagonal Ramsey number of G. (Received August 23, 2004)