

1058-05-67

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Urbana, IL 61801-2975. *Rainbow Matching in Edge-Colored Graphs.*

A *rainbow subgraph* of an edge-colored graph is a subgraph whose edges have distinct colors. The *color degree* of a vertex  $v$  is the number of different colors on edges incident to  $v$ . Wang and Li conjectured that for  $k \geq 4$ , every edge-colored graph with minimum color degree at least  $k$  contains a rainbow matching of size at least  $\lceil k/2 \rceil$ . We prove the slightly weaker statement that a rainbow matching of size at least  $\lfloor k/2 \rfloor$  is guaranteed. We also give sufficient conditions for a rainbow matching of size at least  $\lceil k/2 \rceil$  that fail to hold only for finitely many exceptions (for each odd  $k$ ). (Received February 01, 2010)