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**Jennifer Diemunsch, Michael Ferrara, Casey Moffatt, Florian Pfender and Paul S Wenger\*** ([paul.wenger@ucdenver.edu](mailto:paul.wenger@ucdenver.edu)).  *$\delta(G)$ -Size Rainbow Matchings in Properly Edge-Colored Graphs.*

A rainbow matching in an edge-colored graph is a matching in which all the edges have distinct colors. Ryser's conjecture that odd-order Latin squares have transversals can be equivalently stated as every proper edge-coloring of  $K_{n,n}$  when  $n$  is odd has a rainbow matching of size  $n$ . Motivated by Ryser's conjecture, Wang asked if there is a function  $f(\delta)$  such that a properly edge-colored graph  $G$  with minimum degree  $\delta$  and order at least  $f(\delta)$  must have a rainbow matching of size  $\delta$ . We answer this question in the affirmative;  $f(\delta) = 6.5\delta$  suffices. Furthermore, the proof provides a  $O(\delta(G)|V(G)|^2)$ -time algorithm that generates such a matching. (Received August 19, 2011)