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Ross Churchley, Bojan Mohar and Hehui Wu* (hhwu@olemiss.edu). *Packing of edge-disjoint odd (u, v) -trails.*

For a graph G and vertices $u, v \in V(G)$, let $\nu_{ot}(u, v)$ be the maximum number of edge-disjoint (u, v) -trails of odd length, and let $\tau_{ot}(u, v)$ be the minimum number of edges that intersect every odd (u, v) -trail in G . It is proved that $\nu_{ot}(u, v) \leq \tau_{ot}(u, v) \leq 8\nu_{ot}(u, v)$. The proof leads to a polynomial-time algorithm to find, for any given k , either k edge-disjoint odd (u, v) -trails or a set of fewer than $8k$ edges intersecting all odd (u, v) -trails. (Received August 11, 2015)