

1106-VN-1467      **Jitender Deogun** and **Tyler Seacrest\*** (`tyler.seacrest@umwestern.edu`), 710 S Atlantic St,  
Dillon, MT 59725. *A New Proof of Nash-Williams – Tutte and Generalizations to  $S$ -connectors.*

A classic result proved independently by Nash-Williams and Tutte characterizes when  $k$  edge-disjoint spanning trees pack in a graph. There have been many proofs of this result over the years. In this talk, we give one that is in our opinion particularly nice based off edge-swaps.

West and Wu introduced a generalization of spanning trees called  $S$ -connectors. They proved that  $10k$  connectivity was sufficient to guarantee  $k$  edge-disjoint  $S$ -connectors, and conjectured that  $3k$  would be sufficient. Using the same technique as our proof of Nash-Williams – Tutte, we prove  $9k$  is sufficient. (Received September 13, 2014)