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Svetlana Poznanović* (spoznan@math.tamu.edu). *A Bijection Between Partially Directed Paths in the Symmetric Wedge and Matchings.*

I will illustrate a bijection between partially directed paths in the symmetric wedge $y = \pm x$ and matchings, which sends the number of north steps to the number of pairs of edges nested one below the other (nestings). This gives a bijective proof of a result of Prellberg et al. that was first discovered through the corresponding generating functions: the number of partially directed paths starting at the origin confined to the symmetric wedge $y = \pm x$ with k north steps is equal to the number of matchings on $[2n]$ with k nestings. (Received September 22, 2009)