

1077-AD-1760 **Lara K. Pudwell*** (Lara.Pudwell@valpo.edu), Department of Mathematics & Computer Science, 1900 Chapel Drive, Valparaiso, IN 46383. *Beautiful Bijections for Permutation Patterns*.

In this talk, we will explore several examples of beautiful bijections involving permutation patterns. Along the way, we will see that clever counting can be classy, but bijections have the benefit of giving additional structural information about enumeration problems. We will also see examples when beautiful bijections show two sets of permutations are equinumerous even when a clever counting argument is nowhere to be found. (Received September 20, 2011)