

1046-05-240

Lara K. Pudwell* (Lara.Pudwell@valpo.edu), Department of Mathematics & Computer Science, 1900 Chapel Drive, Valparaiso, IN 46383. *An Introduction to Enumeration Schemes*.

Given permutations p and q , we say that p contains q as a pattern if p has a subsequence that is order-isomorphic to q . Otherwise, we say that p avoids q . The study of these pattern-avoiding permutations yields a number of challenging enumeration questions. I will introduce the method of enumeration schemes, which is an algorithmic way to find recurrences for counting sets of permutations that avoid forbidden patterns. (Received August 21, 2008)