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*Enumerating permutations containing few copies of 321 and 3412.*

We will discuss the use of reduced decompositions in the enumeration of permutations containing few copies of 321 and 3412. The connections between reduced decompositions and permutation patterns have been studied by Tenner, Stanley, Billey and Jockush among others. Permutations avoiding both 321 and 3412 have been successfully enumerated by West, Fan and others. We will discuss results involving the enumeration of permutations containing either one or two copies of 321 and avoiding 3412 or vice versa. (Received February 10, 2011)