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Generating functions over avoidance sets of circular permutations

Motivated by the study of enumeration of circular permutations avoiding a given pattern, we study and obtain an explicit formula for the generating function of circular descents, $cdes$, over the set of circular permutations avoiding a single four letter pattern. This is joint work with Dr. Bruce Sagan, Rachel Domagalski, Quinn Minnich, Jamie Schmidt and Alexander Sietsema.