

Some combinatorial statistics on Riordan objects

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Abstract

Riordan numbers count many combinatorial objects. For instance, Dyck paths with no ascents of length 1, Motzkin paths with on horizontal steps on the x-axis, and noncrossing partitions with no singletons. In this talk, we present some combinatorial statistics are equidistributed on these Riordan objects. Some q -analogue of γ -nonnegative results are also discussed.

Keywords: Riordan numbers; Combinatorial statistics; γ -nonnegative