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Inversion and Major Index Statistics on Standard Young Tableaux

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There is a natural extension of MacMahon's major index statistic maj to SYT which has many applications. Several years ago Stevens and the speaker introduced an inversion statistic inv on SYT, somewhat complicated to describe, which is equidistributed with maj on SYT. In this talk we introduce a common generalization of inv and maj we call maj_k, which is equidistributed with maj on SYT for all k, answering a question of S. Assaf.

This is joint work with Emily Sergel.

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