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Lexicographic Shellability of Partial Involutions

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(Submitted on 1 May 2012)

In this manuscript we study inclusion posets of Borel orbit closures on (symmetric) matrices. In particular, we show that the Bruhat poset of partial involutions is a lexicographiically shellable poset. Also, studying the embeddings of symmetric groups and involutions into rooks and partial involutions, respectively, we find new EL-labelings on permutations as well as on involutions.

Submission history

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