

The poset of quotients of certain positroids

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The collection of matroids M_n over the ground set $[n]$ can be partially ordered into a graded poset such that $P \leq Q$ iff P is a quotient of Q . In this talk we will focus on a subposet of this, denoted L_n whose elements are lattice path matroids. We will show that this poset is also graded and shellable, answering a question of Sagan.