

1086-05-2753

Jessica Striker* (jessica@math.umn.edu) and **Nathan Williams** (will13089@umn.edu).

Promotion and rowmotion: Part 1/2. Preliminary report.

We study toggle group actions and cyclic sieving phenomena on generalized order ideals of posets; these correspond to Schröder paths in a special case. We also examine generalizations of alternating sign matrices arising from this construction and explore algebraic and geometric connections. This is a sequel to our paper, “Promotion and rowmotion.” (Received September 25, 2012)