

1112-05-597

Jessica Striker* (jessica.striker@ndsu.edu). *Partition and plane partition promotion and rowmotion.*

In this talk, we discuss promotion and rowmotion actions on partitions and plane partitions, along with their bijective and dynamical properties. We give a previous result on the cyclic nature of rowmotion on partitions inside a box or staircase. We present a recent analog of this result, relating actions on plane partitions and increasing tableaux and exploring a new dynamical pseudo-periodicity phenomenon we call resonance. We welcome comments as to how this work may relate to monomial ideals of two and three variables. This is based on recent joint work with Kevin Dilks and Oliver Pechenik, as well as previous joint work with Nathan Williams. (Received August 11, 2015)