

1139-05-261

Alexander Garver, Rebecca Patrias* (patriasr@lacim.ca) and **Hugh Thomas**. *Reverse plane partitions via representations of quivers I*.

We start with a brief introduction to quiver representations. We then take a type A Dynkin quiver with a choice of minuscule vertex and define a bijection from a subcategory of the representations of the quiver to reverse plane partitions of a rectangular shape determined by the minuscule vertex. We discuss the connection to the classical Robinson-Schensted-Knuth correspondence. The next talk of this three-part series will generalize these results to the other cominuscule types. (Received February 13, 2018)