

1106-13-1757 **Dylan C Rupel*** (d.rupel@neu.edu), 567 Lake Hall, Department of Mathematics, Northeastern University, Boston, MA 02115. *A modified combinatorics for greedy bases.*

I will begin with a recursive description of greedy bases in rank 2 generalized cluster algebras. To see that these recursions terminate one uses the combinatorics of compatible sets of weights on a maximal Dyck path, I will introduce in this talk a topological way to view these compatible sets of weights as collections of arcs in a punctured disk with weighted boundary points. Time permitting I will discuss a natural partial ordering on these collections of arcs and an application toward understanding noncommutative rank 2 generalized cluster variables. (Received September 15, 2014)