

1116-05-182 **Rebecca Patrias*** (patri080@umn.edu) and **Pavlo Pylyavskyy**. *Dual Filtered Graphs*.

Using the Hecke insertion algorithm of Buch-Kresh-Shimozono-Tamvakis-Yong, we define a K -theoretic analogue of Fomin's dual graded graphs called dual filtered graphs. The key formula in the definition is $DU - UD = D + I$. We discuss two main constructions of dual filtered graphs: the Mobius construction, which corresponds to natural insertion algorithms, and the Pieri construction, which is an algebraic construction. This is work with Pavlo Pylyavskyy. (Received August 11, 2015)