

1116-05-215

Cara Monical* (cmonica2@illinois.edu), 1409 W. Green Street, Urbana, IL 61801.

K-Theoretic Demazure Atoms and Set-Valued Skyline Diagrams. Preliminary report.

Demazure characters and atoms are well-studied specializations of Macdonald polynomials with combinatorial descriptions in terms of semistandard skyline fillings. We study a “ K -theoretic” generalization of these polynomials and give a conjectural description in terms of set-valued semistandard skyline fillings. We show that this combinatorial description provides a generalization of several known results of Demazure atoms. (Received August 14, 2015)