1131-05-36 Sami Assaf and Anne Schilling\* (anne@math.ucdavis.edu), Department of Mathematics, University of California, One Shields Avenue, Davis, CA 95616. A Demazure crystal construction for Schubert polynomials.

Stanley symmetric functions are the stable limits of Schubert polynomials. In this talk, we show that, conversely, Schubert polynomials are Demazure truncations of Stanley symmetric functions. This parallels the relationship between Schur functions and Demazure characters for the general linear group. We establish this connection by imposing a Demazure crystal structure on key tableaux, recently introduced by the first author in connection with Demazure characters and Schubert polynomials, and linking this to the type A crystal structure on reduced word factorizations, recently introduced by Morse and the second author in connection with Stanley symmetric functions. This talk is based on arXiv:1705.09649. (Received June 13, 2017)