1119-05-129 **Sami Assaf** (shassaf@usc.edu), Department of Mathematics, University of Southern California, 3620 S Vermont Ave KAP 104, Los Angeles, CA 90089, and **Dominic Searles*** (dsearles@usc.edu), Department of Mathematics, University of Southern California, 3620 S Vermont Ave KAP 104, Los Angeles, CA 90089. *Schubert polynomials and slide polynomials.*

We introduce the monomial and fundamental slide bases for the polynomial ring. These bases, which are lifted from monomial and fundamental quasisymmetric polynomials, have nonnegative structure constants, and we obtain nonnegative combinatorial formulas for these numbers. We give a nonnegative combinatorial formula for the expansion of a Schubert polynomial into the fundamental slide basis, in terms of quasi-Yamanouchi pipe dreams. We use these formulas to gain a refined understanding of stability of Schubert polynomials. In particular, we tighten a bound of Li for when the Schubert basis expansion of a product of Schubert polynomials stabilizes. (Received February 13, 2016)