1021-14-163 **Anders S. Buch*** (asbuch@math.rutgers.edu), Department of Mathematics, Rutgers University, Piscataway, NJ 08854-8019. *Quiver coefficients of Dynkin type.*

The quiver coefficients for equioriented quivers of type A describe the Grothendieck classes of orbit closures in the affine space of quiver representations. These coefficients are now well understood; they have signs that alternate with degree, are described by nice combinatorial formulas, they generalize the monomial coefficients of Schubert and Grothendieck polynomials, and are themselves special cases of the K-theoretic Schubert structure constants on flag varieties. In my talk, I will define quiver coefficients for arbitrary quivers without oriented loops, and discuss to what extent these coefficients satisfy positivity properties. I will also give a formula for quiver coefficients of quivers of Dynkin type (in K-theory, only for orbit closures with rational singularities). This formula shows that quiver coefficients of type A3 have alternating signs. (Received September 04, 2006)