1167-16-152 **Kyu-Hwan Lee***, Dept of Mathematics, University of Connecticut, U-1009, Storrs, CT 06269-1009, and **Kyungyong Lee** and **Matthew R. Mills**. *L-matrices of quiver mutations.*

For a finite acyclic quiver, the c-vectors of quiver mutations are real Schur roots of the corresponding Kac–Moody algebra. For an arbitrary finite quiver, we define a family of reflections along with associated vectors for each mutation sequence and show that these vectors coincide with the c-vectors. This new presentation of c-vectors reveals some essential features in mutations of (non-acyclic) quivers and leads us to define an L-matrix for each mutation sequence. In this talk, some conjectures on L-matrices will be presented. This is a collaboration with Kyungyong Lee and Matthew Mills. (Received March 04, 2021)