1126-05-340 **Pramod Achar** and **Maitreyee Kulkarni*** (mkulka2@lsu.edu), 3942, Gourrier Avenue, Apt no 209, Baton Rouge, LA 70808, and **Jacob Matherne**. Combinatorial Fourier transform for quiver representation varieties in type A.

For a given dimension vector, consider the moduli space of representations of the linearly-oriented type A quiver $\bullet \longrightarrow \bullet \longrightarrow \bullet \to \bullet$. This affine space has a stratification by orbits for a product of general linear groups, so we can study the equivariant constructible derived category of sheaves on it. The Fourier–Sato transform, which plays a crucial role in Springer theory and throughout geometric representation theory, gives an equivalence between this derived category and the derived category for the reversed quiver. We introduce certain triangular arrays of nonnegative integers and, with them, give a combinatorial algorithm for computing the Fourier–Sato transform in this setting. This is joint (in progress) work with Pramod N. Achar and Jacob P. Matherne. (Received January 17, 2017)