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Daniel Orr* (dorr@vt.edu) and **Mark Shimozono**. *On cyclic quiver parabolic Kostka-Shoji polynomials.*

In an earlier work we defined Kostka-Shoji polynomials for arbitrary quivers as the Schur expansion coefficients of a generalization of Hall-Littlewood symmetric functions; these coefficients encode graded multiplicities in a geometrically defined representation of a product of general linear groups (over each vertex in the quiver). In this work we obtain an explicit combinatorial formula for certain parabolic Kostka-Shoji polynomials associated with the cyclic quiver, generalizing results of Shoji and of Liu and Shoji. Our results also identify the graded induction of Garsia-Procesi modules, from the symmetric group to its wreath product with a cyclic group, as instances of parabolic quiver Hall-Littlewood functions. (Received September 09, 2019)