1146-16-374   **Jieru Zhu*** (`jieruzhu@buffalo.edu`) and **Yiqiang Li** (`yiqiang@buffalo.edu`). *Presenting hyperoctahedral Schur algebras.*

The centralizer algebra of the symmetric group action on a tensor space, also known as the Type A Schur algebra, has a geometric construction as functions on the double flag variety. This construction has a Type B/C analogue by Bao-Kujawa-Li-Wang (2018) using the double orthogonal flag variety. In this setting, the Type B hyperoctahdral Schur algebra, S, is a quotient of U, an algebra generated by explicit functions on this variety with a known list of relations. Some relations in the kernel of $U \to S$ are stated in BKLW. In the classical case, we extend these to a full list of relations, and give presentations of S. We also give an explicit isomorphism between U and a 2-block Levi subalgebra of the universal enveloping algebra $U(\mathfrak{gl}_n(\mathbb{C}))$. (Received January 27, 2019)

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