

1096-VN-2613 **Matthew Moynihan*** (mmoynihan@wooster.edu). *The Flag Descent Algebra*. Preliminary report.

We examine signed permutations and show that the type A Eulerian descent algebra is a two-sided ideal in the algebra spanned by the basis elements from the type A and type B Eulerian descent algebras. This larger algebra corresponds to the flag descent number of Adin, Brenti, and Roichman and so is called the flag descent algebra. We end by describing a set of orthogonal idempotents which span this algebra. (Received September 17, 2013)