1150-05-571  Federico Castillo*, 405 Snow Hall, 1460 Jayhawk Blvd., Lawrence, KS 66045. Coxeter submodular functions.

We extend the notion of submodular function to arbitrary root systems. In doing so, we compute the nef cone of the (coxeter) permutohedral varieties. In particular, we know exactly how many facets they have and how they look like. This is joint work with F.Ardila, C.Eur, and A.Postnikov. (Received July 16, 2019)