1049-16-71 **Tom Braden**, Anthony Licata and Nicholas Proudfoot\* (njp@uoregon.edu), Department of Mathematics, 122 University of Oregon, Eugene, OR 97403, and Ben Webster. *Gale duality and Koszul duality.* 

I will explain a new way to associate a finite-dimensional noncommutative algebra to a real hyperplane arrangement. Though motivated by the symplectic and algebraic geometry of hypertoric varieties, the definition is purely combinatorial. I will discuss some of the beautiful features of this algebra, including the fact that Gale dual hyperplane arrangements give rise to Koszul dual algebras. (Received February 20, 2009)