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Nan Li* (nan@math.mit.edu) and **Amos Ron**. *External zonotopal algebra*.

We provide a general, unified, framework for external zonotopal algebra. The approach is critically based on employing simultaneously the two dual algebraic constructs, known as the P space and the D space, and invokes the underlying matroidal and geometric structures in an essential way. (Received July 26, 2011)