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Federico Castillo* (fcastillo@ucdavis.edu), Department of Mathematics, UC Davis, One Shields Ave, Davis, CA 95616, and **Binglin Li** and **Naizhen Zhang**. *The multidegree polytope of an irreducible subvariety of product of projective spaces.*

Recently June Huh classified, up to a multiple, all possible classes in the Chow ring of a product of two projective spaces that can be represented by an irreducible variety. As a first step to generalize this result to any number of copies of projective spaces, we focus only on the support of these classes. It turns out that the support of any irreducible variety can be described naturally as the integer points in a polytope, more precisely a generalized permutohedron. (Received February 15, 2016)