

1121-05-161 **Karim Adiprasito*** (sunya00@gmail.com). *Hodge theory for polytopes and matroids.*

We discuss applications of Hodge theory, a part of algebraic geometry, to problems in combinatorics. We moreover discuss situations in which these deep algebraic theorems themselves can be shown combinatorially, extending our knowledge of cohomology of closed currents in toric varieties.

joint work with June Huh and Eric Katz (Received July 18, 2016)