

Toric h-vectors and Chow Betti numbers of hypersimplices

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For a complete toric variety, the toric h-numbers and the Chow Betti numbers record the dimensions of graded pieces of the intersection cohomology and Chow cohomology respectively. They coincide for smooth varieties but can be arbitrarily different otherwise. In this talk I will give explicit formulas and show that these numbers are closely related to each other for the normal fans of hypersimplices.

This is a joint work with Charles Wang.