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Jaewoo Lee* (jlee@bmcc.cuny.edu), Department of Mathematics, Borough of Manhattan Community College(CUNY), 199 Chambers Street, New York, NY 10007. *Geometric structure of sumsets within their convex hulls.*

The cardinality of integral points contained in an integral polytope as well as the cardinality of sumset of a finite set of integral points are both known to grow as polynomials. In this talk, we will investigate how the sumsets of a finite set of integral points are geometrically structured within their convex hulls. We'll see that sumsets take over the central regions of their convex hulls as they both grow. (Received September 26, 2006)