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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. *Growth of sumsets and polytopes.*

Ever since Milnor asked about growth of groups, growth functions have been actively studied. In this talk, we will investigate how sumsets of a finite set of lattice points grow as geometric objects. Especially, we will see that sumsets grow basically as dilations of the set's convex hull. (Received September 16, 2008)