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**Jaewoo Lee\*** ([jalee@bmcc.cuny.edu](mailto:jalee@bmcc.cuny.edu)), Department of Mathematics, Borough of Manhattan Community College, 199 Chambers Street, New York, NY 10007. *Geometry of numbers and sumsets.*

This talk will be motivated by the study of numbers and their geometry in general. In particular, we will talk about some of recent improvements on Minkowski's theorem on geometry of numbers. This naturally leads to questions of geometry of sumsets. When you start with a finite set of integral points in a given dimension, and take its iterated sumsets, its size is known to grow as a polynomial. We will talk about how they grow geometrically inside their convex hulls and how this might be useful when you count lattice points in polytopes. (Received January 18, 2013)