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Naichung Conan Leung* (leung@math.cuhk.edu.hk). *Counting lattice points in Gorenstein cones.*

We obtain a lower estimate of the growth of the number of lattice points inside Gorenstein cones. Our tools include toric geometry, orbifold Riemann-Roch formula, Einstein metrics and Yau's Chern number inequality. This is a joint work with Zhiming Ma. (Received August 15, 2012)