

How Vallentin's Proof of the Voronoi Conjecture Works

Wes Maciejewski
Math, UofC
wes@math.ucalgary.ca

Abstract

The Voronoi Conjecture attempts to establish a crucial link between translational space tiling polytopes and Voronoi Cells for lattices. The Conjecture is nearing its 100 year anniversary and a complete general solution does not appear to be near. In this talk, I will present an example in \mathbb{R}^3 that illustrates F. Vallentin's proof of the Conjecture for the special case of zonotopes.