

1163-47-447

**Wing Suet Li\*** ([li@math.gatech.edu](mailto:li@math.gatech.edu)). *The enumeration of extreme rigid honeycombs.*

The rigid honeycombs were used to solve the Horn conjecture, which characterize the eigenvalues of the sum of self-adjoint matrices. The intricate combinatorial relations of rigid extreme honeycombs sometimes allow us to observe very complicated geometrical relationships between the sum of two self-adjoint matrices and the summands. In this talk I will present ways to grow these rigid extreme trees and provide a scheme to enumerate them. This is a joint work with H. Bercovici. (Received September 07, 2020)