

Stacked triangulations of polytopes

Satoshi Murai

Abstract

A triangulation of a simplicial d -polytope is said to be r -stacked if all its interior faces have dimension at least $d-r$. When r is small, r -stacked triangulations have several nice interesting properties. For example, an r -stacked triangulation is unique if it exists and its existence only depends on the number of faces of a polytope. In this talk, I will explain these interesting properties of r -stacked triangulations.