

Carathéodory-type results for the sums and unions of convex sets

Valeriu Soltan, George Mason University, Fairfax VA – 22030

Abstract

Several Carathéodory-type results on extreme representations of sums and unions of finitely many closed convex sets or polyhedra in \mathbb{R}^n in terms of their faces will be presented (based on a manuscript written with Jim Lawrence).

Keywords: convex set, polyhedron, Carathéodory's theorem, Minkowski sum.