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"Tropical and Ordinary Convexity"

**ABSTRACT:**

A polytrope is a tropical polytope which at the same time is convex in the ordinary sense. In this talk, I will present some results on polytropes and we prove that each  $d$ -dimensional polytrope is a tropical simplex, that is, it is the tropical convex hull of  $d+1$  points.

One famous representative is the associahedron. Seen as a polytrope we will get to know some properties of it, i.e., its diameter.