
SERGII MYROSHNYCHENKO, Kent State University

On polytopes with congruent projections

Let P and Q be two polytopes in \mathbb{E}^n , $n \geq 3$, such that their projections onto any k -dimensional subspace, $2 \leq k \leq n - 1$, are congruent (i.e. coincide up to a rigid motion). We show that P and Q coincide up to translation and reflection in the origin."