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Sergii Myroshnychenko* (smyroshn@kent.edu), Kent State University, Department of Mathematical Sciences, Summit St, Kent, OH 44242, and **Dmitry Ryabogin** (ryabogin@math.kent.edu). *On polytopes with congruent projections or sections.*

Let $2 \leq k \leq d - 1$ and let P and Q be two convex polytopes in \mathbb{E}^d . Assume that their projections, $P|H$, $Q|H$, onto every k -dimensional subspace H , are congruent. We show that P and Q or P and $-Q$ are translates of each other. We also prove an analogous result for sections by showing that $P = Q$ or $P = -Q$, provided the polytopes contain the origin in their interior and their sections, $P \cap H$, $Q \cap H$, by every k -dimensional subspace H , are congruent. (Received September 07, 2016)