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A generalization of Winternitz's theorem and its discrete version
Let $K$ be a convex body in the plane. Cut $K$ by a line passing through its centroid. It is a well-known result, due to Winternitz, that the areas of the resulting two pieces are at least $4 / 9$ times the area of $K$. We will discuss a discrete version of Winternitz's theorem. Joint work with Alexandra Shyntar.

