VLADYSLAV YASKIN, University of Alberta

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.