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On the illumination parameters of smooth convex bodies

Let K be an o-symmetric convex body in d-dimensional Euclidean space and let $|x|$ denote the norm of any point (vector) in d-space with respect to the norm generated by the centrally symmetric convex body K. Then let $a(K)$ denote the minumum of the sum of the norms of points whose convex hull contains K. (Note that $a(K)$ coincides with the illumination parameter of smooth convex bodies introduced by K. Bezdek in 1991.) In the talk we present lower and upper bounds on $a(K)$.

This is a joint work with A. Litvak (Univ. of Alberta).