AMERICAN MATHEMATICAL SOCIETY MathSciNet Mathematical Reviews on the Web Previous Up Next Article

## MR0114110 (22 #4937) 46.00 Grünbaum, B.

## **Projection constants.**

Trans. Amer. Math. Soc. 95 1960 451-465

A normed linear space X is said to have the property  $P_s$  if for each normed linear space Y which contains X there exists a projection of bound not exceeding s of Y on X. If  $\lambda$  denotes the inf of the s for which X has property  $P_s$ , then X is said to belong to  $\mathcal{P}_{\lambda}$ . It is a consequence of a result of Goodner [same Trans. **69** (1950), 89–108; MR0037465 (12,266c)] that if X can be imbedded in a Y of class  $\mathcal{P}_1$ , then the corresponding  $\lambda$  for X is the inf of the bounds of the projections of Y on X. On the basis of this result, the  $\lambda$  for certain finite dimensional spaces is determined. These include the n-dimensional Euclidean and Minkowski spaces.

Reviewed by F. J. Murray

© Copyright American Mathematical Society 1961, 2008

Citations

From References: 6 From Reviews: 5