

Helly-type Results on Common Supports of Convex Bodies

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Abstract

Following Dawson and Edelstein, we say that a family F of convex bodies in Euclidean space has the property S provided there is a hyperplane that supports every member of F . Similarly, F has the property $S(k)$ if every k -membered subfamily of F has the property S . We discuss some results and problems related to the Helly-type condition when $S(k)$ implies S .

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