عنوان مقاله:

A convex combinatorial property of compact sets in the plane and its roots in lattice theory

محل انتشار:

مجله نظریه رسته ها و ساختارهای کلی جبری با کاربردها, دوره 11, شماره 0 (سال: 1398)

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خلاصه مقاله:

K. Adaricheva and M. Bolat have recently proved that if \,\mathcal U_o and \,\mathcal U_1 are circles in a triangle with vertices A_{\circ},A_{1},A_{1} , then there exist j\in $\{\circ,1,2'\}$ and $k\in\{0,1'\}$ such that \,\mathcal U_{1-k} is included in the convex hull of $\\ U_k \subset U_k \subset$ existence of such a j and k for the more general case where \,\mathcal U_o and \,\mathcal U_1 are compact sets in the plane such that \,\mathcal U_\ is obtained from \,\mathcal U_\ o by a positive homothety or by a translation. Also, we give a short survey to show how lattice theoretical antecedents, including a series of papers on planar semimodular .lattices by G. Grätzer and E. Knapp, lead to our result

كلمات كليدي:

Congruence lattice, planar semimodular lattice, convex hull, compact set, linebreak circle, combinatorial geometry, abstract convex geometry, anti-exchange property

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