

The convex decomposition number and the valence of some functions

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Abstract

In this talk we exploit the convex decompositions of some open set and the number of their convex components to provide upper estimates for the valence of some special functions. The functions we have in mind are vector valued and defined on the open set. Their restrictions to the convex subsets of the open set are supposed to be all injective. Some especial attention is paid to the convex decompositions with maximal convex components.