Regularity Problem for Extremal Vectors

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Abstract: In this paper, we will use results developed by Ansari and Enflo in the theory of bounded linear operators with dense range. We define two maps, with regards to some parameters, that control surjectivity default of a given operator, and prove analycity for the first one and global continuity for the other one. Minimisation results are also obtained in relation to this study.

Key words: Extremal vectors, Enflo technique, dense range.

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