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SUFFICIENT CONDITIONS FOR THE COMPATIBILITY
OF SOME SYSTEMS OF CONVEX INEQUALITIES

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Ky Fan studied in [2] the existence of solutions for some systems of convex inequalities involving lower semicontinous functions defined on a convex compact set in a topological vector space. [All the topological vector spaces considered in this paper, t.v.s. for short, are real and Hausdorff.] Particulary, he proved the following theorem: