图象拓扑下的Ky Fan引理解集的本质连通区及其在对策论上的应用

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摘要　　本文在集值映射的图象拓扑意义下,证明了赋范线性空间中的Ky Fan

引理的解集的本质连通区的存在性, 由此得到一类对策的Nash平衡点集的本质连通区的存在性.

关键词　　图象拓扑　Ky Fan 引理的解　Nash平衡　本质连通区

分类号

THE EXISTENCE OF ESSENTIAL COMPONENTS OF THE SET OF SOLUTIONS OF KY FAN'S LEMMA AND ITS APPLICATIONS TO GAME THEORY

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Abstract We prove that for all problems of Ky Fan's Lemma in normed vector space there exists at least one essential component of the set of solutions of Ky Fan's Lemma. As a consequence, we deduce that for any general n-person game with some convexity and continuity conditions, there exists at least one essential component of the set of Nash equilibrium points.

Key words   graph topology　Nash equilibrium　Ky Fan's Lemma　essential

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