

Ky Fan点集的本质连通区

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摘要 首先引入了Ky Fan点集本质连通区的概念,证明了对任一满足一定凸性和连续性条件的函数,其Ky Fan点集至少存在一个本质连通区.作为应用,推出对任何一般n人非合作对策(其支付函数满足一些凸性和连续性条件),其Nash平衡点集至少存在一个本质连通区.

关键词 [KyFan点](#),[本质连通区](#),[Nash平衡点](#),[n人非合作对策](#)

分类号

ON ESSENTIAL COMPONENTS OF THE SET OF KY FAN'S POINTS

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Abstract In this paper,the concept of essential connected components of the set of Ky Fan's points is first introduced.We prove that for any function which satisfies some convexity and continuity conditions,there exists at least one essential connected component of the set of Ky Fan's points.As a consequence,we deduced that for any general noncooperative n-person game(satisfies some convexity and continuity conditions),there exists at least one essential connected component of the set of Nash equilibrium points.

Key words [Ky Fan's points](#) [essential connected component](#) [Nash equilibria](#) [n-person noncooperative game](#)

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