

度量凸空间中Lipschitz型非自映射族的唯一公共不动点

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Unique Common Fixed Points for a Family of Lipschitz Type Non-self Mappings on Metrically Convex Spa

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摘要 考察了完备的度量凸空间框架下满足具有变系数的Lipschitz条件的非自映射族并根据给定的边界条件和映射族构造了一个收敛序列 $\{x_n\}$,然后证明了该序列的唯一极限正是映射族的唯一的公共不动点,最后给出了更广泛的结果.所得结果推广和改进了许多压缩型映射族的公共不动点定理.

关键词: [度量凸空间](#) [Lipschitz型条件](#) [公共不动点](#) [完备](#)

Abstract: A family of non-self maps satisfying a Lipschitz type condition with variable coefficients in a complete metrically convex space was considered and a convergent sequence $\{x_n\}$ was constructed by using the given boundary condition and the given mappings, and then the fact that the unique limit of $\{x_n\}$ is the unique common fixed point of the given mappings was proved. Finally, more general results were given. Our main theorems generalize and improve many common fixed point theorems of contractive type mappings.

Key words: [metrically convex space](#) [Lipschitz type condition](#) [common fixed point](#) [complete](#)

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