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### 渐近拟非扩展型映象不动点的迭代逼近

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The iterative approximation for the fixed points of asymptotically

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摘要 去掉了已有文献中的条件:“对任意子列{ $x_{n_i}$ } { $x_n$ },当 $\|T^n x_{n_i} - x_{n_i}\| \rightarrow 0$ 时就有 $\|Tx_{n_i} - x_{n_i}\| \rightarrow 0$ ”后,研究了Banach空间中渐近拟非扩展型映象不动点的迭代逼近问题;所得结果推广和发展了已有文献中的成果.

关键词: 渐近拟非扩展型映象 修改的具误差的Ishikawa迭代序列 不动点

Abstract: The purpose is to study the iterative approximation problems of fixed points for asymptotically nonexpansive type mappings in Banach spaces without the usually used condition: "For any, { $x_{n_i}$ } { $x_n$ }, if  $\|T^n x_{n_i} - x_{n_i}\| \rightarrow 0$ , then  $\|Tx_{n_i} - x_{n_i}\| \rightarrow 0$ ". The results improve the corresponding results in literatures.

Key words: asymptotically quasi-nonexpansive mapping modified ishikawa iterative sequence with errors fixed point

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