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 $\|x_n - x\| \leq \frac{1}{2} \|x_{n-1} - x\| + \frac{1}{2} \|x_{n-1} - x_n\|$

Dedicated to Costică MUSTĂTA on his 60<sup>th</sup> anniversary (1942-2002)

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## THE CONVERGENCE OF MANN ITERATION FOR AN ASYMPTOTIC HEMICONTRACTIVE MAP

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**Abstract.** We prove that the Mann iteration converges to a fixed point of an asymptotic hemicontractive map.

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**Keywords:** Mann iteration, fixed point, asymptotic hemicontractive map