

TIME REGULARITY PROPERTIES OF BOUNDED LINEAR OPERATORS

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Time regularity property is closely related to stability properties of a given operator. To be precise, we shall study the norm convergence of the operator sequence $T^n - T^{n-1}$, where T acts continuously on a Banach space. The original point of the area is J. Esterle, Y. Katznelson and L. Tzafriri's seminal work which motivated general stability results and $0 - 2$ laws of bounded, linear operators.

The aim of our talk is to present a survey on this topic and produce a few new results here. We shall focus on the possible rates of the convergence, especially, in the Hilbert space case.