ON THE CLASS OF OPERATOR STABLE DISTRIBUTIONS IN A SEPARABLE BANACH SPACE

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Abstract: This paper characterizes the class of all limit probability measures μ of normalized and centralized convolution powers in a separable Banach space E which are defined by

$$A_u \nu^{*n} * \delta_{x_n} \xrightarrow{w} \mu$$

for some linear and bounded operators A_n and some shifts $x_n \in E$. It is shown that this class coincides with the set of all infinitely divisible laws in E provided that E is infinite dimensional.

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