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 \( \mu \) of normalized and centralized convolution powers in a separable Banach space \( E \) which are defined by

\[
A_u \nu \ast n \ast x_n \rightarrow w \mu
\]

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.

2000 AMS Mathematics Subject Classification: Primary: -; Secondary: -;
Key words and phrases: -

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