**Abstract:** The probability measures on separable Banach space $X$ which are stable under the group $\mathcal{U}(X)$ of all invertible linear operators on $X$ are investigated. The characterization of such measures on finite-dimensional spaces was obtained by Parthasarathy in [6]. In this paper some generalizations of Parthasarathy's result are given.

2000 AMS Mathematics Subject Classification: Primary: -; Secondary: -;

Key words and phrases: -