

ON SZASZ'S COMPACTNESS THEOREM AND APPLICATIONS TO  
GEOMETRIC STABILITY ON GROUPS

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*Abstract:* Within the rapidly developing theory of random limit theory for real-valued random variables the concepts of geometric convolution and geometric stability play a fundamental role. In several recent investigations it was pointed out that there is a one-to-one correspondence between “classical” limit theorems and stability concepts and their geometric counterparts (cf. [2], [3], [5], [11], [14]-[16]).

We are going to prove analogous results for randomized products of random variables taking values in a simply connected nilpotent Lie group  $G$ . This class of groups is natural in this setup since classical stability concepts were generalized to nilpotent groups (cf. [6] and [17]).

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