

A BERNSTEIN PROPERTY OF MEASURES ON GROUPS AND  
SYMMETRIC SPACES

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*Abstract:* In this paper we consider a Bernstein property of probability measures on groups introduced by Neuenschwander. We discuss this property for discrete groups, compact groups, nilpotent groups and some solvable groups. In all these cases we show that a measure having the Bernstein-Neuenschwander property must be concentrated on an Abelian subgroup. We conclude with an application of this result to the Gaussian measures on non-compact symmetric spaces.

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