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Ming Liao* (liaoamin@auburn.edu), Department of Mathematics and Statistics, Auburn University, AL 36849. *Invariant Markov processes under Lie group actions.*

The invariance of probability distributions under various transformations plays an important role in the probability theory, such as translation invariant Markov processes in Euclidean spaces, which are called Levy processes and are characterized by independent and stationary increments. In this talk, we will present a more general theory of invariant Markov processes under Lie group actions. (Received September 10, 2016)