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## **Quasi-regular Dirichlet forms and multiplicative semigroups on $L^p$**

Lucian Beznea

Simion Stoilow Institute of Mathematics of the Romanian Academy and Politehnica  
University of Bucharest, Romania

### **Abstract**

We show that a Markovian multiplicative semigroup on an  $L^p$  space is generated by a continuous flow. However, an extension of the state space is necessary. We shall emphasize the analogy with the case of a Dirichlet form on an  $L^2$  space, which becomes quasi-regular after an enlargement of the space by a zero set.