

INVARIANT MEASURES OF CIRCLE FOR GROUPS OF CIRCLE HOMEOMORPHISMS ENDOWED WITH NON-DEGENERATE MEASURES

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I will consider groups of circle homeomorphisms endowed with a non-degenerate measure. Firstly, I will define the diffusion operator for such a group. Then I will introduce the concepts of stationary measure on the unit circle (fixed point for the conjugate of such operator), inverse process and corresponding martingale to show that under some conditions (put on the group of homeomorphisms) there exists only one stationary measure. The talk will be mainly based on the paper “Groups of circle diffeomorphisms” by Andrés Navas.