
PRACHI LOLIENCAR, University of Alberta
Measures on compact right topological groups

Compact admissible right topological groups, arising naturally from the distal semigroup flows, were initially studied in topological dynamics. However, Namioka's topological analysis of these groups, and Pym and Milnes' discovery of the existence of a Haar measure, have since inspired an Abstract Harmonic Analytic interest. Lau and Loy have introduced and analyzed measure and Fourier algebra analogues on such groups in great detail.

Most of the existing literature however, relies on the admissibility property of such groups. In this talk, we shall introduce alternate sufficient conditions for the existence of a Haar measure, dealing with arbitrary compact right topological groups. We shall introduce measure algebras that characterize this existence, and discuss some Hereditary properties of these groups, relating the existence of a Haar measure on the group to that on its sub-structures.