

Welcome Home Workshop 2014

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LINGUA PER LA CONFERENZA: Italiano

TITOLO: Model theory for abelian C^* -algebras

COAUTORI: joint work with Christopher Eagle

Abstract

After a brief introduction, we will focus on model theory for abelian real rank 0 C^* -algebras, that are algebras of the form $C(X)$, with X 0-dimensional compact and Hausdorff. We characterize these algebras up to elementary equivalence in terms of invariants of the Boolean algebra $CL(X)$ of clopen subsets of X . We also describe several saturation properties that $C(X)$ may have, and relate these to topological properties of X and saturation of $CL(X)$. All the necessary background on continuous logic will be provided.