

Seminário de Álgebra

Covers of pseudocompact modules and a theorem of Weiss.

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Local: Miniauditório do Mat

Abstract.

I'll sketch the proof of a generalization of a famous theorem of A. Weiss that allows the recognition a given pseudocompact (= profinite, basically) RG -lattice as a permutation module in certain circumstances, when G is a finite p -group and R is a complete DVR in mixed characteristic whose residue field has characteristic p . One of our principal tools is the permutation cover of a given module – a concept similar to that of a projective cover. We will introduce, discuss and use these covers. Joint work with Peter Symonds and Pavel Zalesski.