

Meeting: 998, Houston, Texas, SS 5A, Special Session on Associative Rings

998-16-219 **Dolors Herbera*** (dolors@mat.uab.es), Departament de Matemàtiques, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain. *Modules with a semilocal endomorphism ring revisited.*

This talk is based on a joint work with Alberto Facchini.

Modules with a semilocal endomorphism ring have good direct-sum properties. For example, they can be decomposed into a finite direct sum of indecomposable submodules and there are only a finite number of such decompositions, they cancel from direct sums and satisfy the n -th root uniqueness property.

Rosa Camps and Warren Dicks in the paper *On semilocal rings* (Israel J. Math. **81**(1993), 203–211) gave a characterization of semilocal rings that lead to prove that some interesting classes of modules have a semilocal endomorphism ring. In this talk I will enlarge the list of this kind of modules, showing that they are very frequent between modules with finiteness conditions.

The results are obtained by combining techniques of localization in module categories with the Camps-Dicks characterization of semilocal rings. (Received February 27, 2004)