

**Meeting:** 998, Houston, Texas, SS 2A, Special Session on Representations of Algebras

998-16-194      **José Antonio De la Peña** (jap@penelope.matem.unam.mx), Instituto de Matemáticas, Circuito Exterior, C.U., 04510 Mexico City, D.F., Mexico, and **Bertha Tomé\*** (bta@hp.fciencias.unam.mx), Departamento de Matemáticas, Facultad de Ciencias, Circuito Exterior C.U., 04510 Mexico City, D.F., Mexico. *Extensions of an algebra by a representation-finite algebra*. Preliminary report.

We consider triangular matrix algebras

$$A = \begin{pmatrix} B & {}_B M_R \\ 0 & R \end{pmatrix}$$

over an algebraically closed field, endowed with the usual matrix operations. We assume that  $B$  is triangular and  $R$  is representation-finite, and associate to  $A$  an integral quadratic form  $p_A$ , called the extension form of  $A$ , which allows us to give criteria for the representation type of  $A$ . (Received February 25, 2004)