1056-17-489 **Alicia Labra*** (alimat@uchile.cl), Departamento de Matematicas, Facultad de Ciencias, Univ. de Chile, Casilla 653, Santiago, Chile. *Locally Nilpotency in Commutative Right Nilalgebras.*

This talk is based in two joint works with I. Correa and I. R. Hentzel[2] and the second with A. Behn and A. Elduque[1]. It deals with the variety of commutative non associative algebras satisfying LxLxLx + tL(xx)x = 0, t in K. In [2] it is proved that if t = 0,1 then any finitelly generated algebra is nilpotent. In [1] we generalize this result by proving that if t is not -1, the any such algebra is locally nilpotent. Our results require characteristic not 2,3.

[1] A. Behn, A. Elduque, A. Labra, On a class of Locally Nilpotent Commutative Algebras, sumitted July, 2009.

[2] I. Correa, I. R. Hentzel, A. Labra, Nilpotency of Commutative Finitely Generated Algebras satisfying LxLxLx + tL(xx)x = 0, t = 0,1. To appear in Journal of Algebra. (Received September 09, 2009)