1024-18-205   **Luchezar L. Avramov*** (`avramov@math.unl.edu`), Lincoln, NE 68588. *Stable cohomology in commutative algebra.*

P. Vogel, D. Benson and J. Carlson, and G. Mislin have extended Tate's cohomology theory for finite groups to a $\mathbb{Z}$-graded cohomology theory in two arguments, defined over arbitrary associative rings. Recent results from joint work with Srikanth Iyengar and with Oana Veliche link properties of these functors to properties of commutative noetherian rings. (Received January 08, 2007)