Meeting: 999, Nashville, Tennessee, SS 6A, Special Session on Local and Homological Algebra

999-13-175   **L. L. Avramov**, **S. Iyengar** and **C Miller*** (`cmille06@syr.edu`). *Extremal Algebras.*
I will speak on joint work concerning ring homomorphisms R –> S that provide S with an R-module structure that has an extremal resolution. The ur-example is the Frobenius homomorphism in characteristic p>0, but there are many others.

    In particular, we get an example of a surprising phenomenon: that the R-module structure of S can actually give information about the rings R and S. (Received August 22, 2004)