

1116-13-2005 **Eric Canton*** (ecanton2@math.unl.edu). *Frobenius actions and a type of singularity in characteristic $p > 0$.*

The singularities of rings with prime characteristic $p > 0$ are often studied using the p th-power (“Frobenius”) homomorphism. In this talk, we study certain mild singularities of hypersurfaces in characteristic p using a Frobenius homomorphism on a particular module associated to the hypersurface. (Received September 21, 2015)