1019-13-146   **Trung Dinh*** (`dinh@math.utah.edu`). *On the Artin functions of rings with approximation property.* Preliminary report.

This talk is concerned with the Artin functions of systems of polynomial equations. I'll discuss some of the current results on the "nonlinearity" of these functions as well as their "linearity" under some smoothness conditions. (Received August 13, 2006)