1163-13-746 **Nicholas O Cox-Steib*** (noc3md@mail.missouri.edu). $\mathfrak{m}$-*adic Perturbations and F-Invariants.*

Suppose $(R, \mathfrak{m}_R)$ is a Noetherian local ring that is complete with respect to the $\mathfrak{m}_R$-adic topology. Given an ideal, $I \subset R$, we investigate quotients of the form

$$\frac{R}{(g_1, \ldots, g_c)}$$

where $g_1, \ldots, g_c \in R$ are $\mathfrak{m}_R$-adically close to a minimal generating set for I.

We discuss new techniques for studying these quotients when R has equal characteristic and $I \subset R$ satisfies certain technical conditions. Applying these methods to F-finite local rings yields interesting new results about F-invariants. (Received September 12, 2020)