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Louisville, KY 40245. *Some observations on F -threshold*. Preliminary report.

Let R be a commutative Noetherian ring in characteristic p . For a pair of ideals a, I of R such that $a \subseteq \sqrt{I}$, one can define the F -threshold as the limit of $\max\{t \mid a^t \not\subseteq I^{[p^e]}\}/p^e$ as $e \rightarrow \infty$, provided the limit exists. We will discuss some new properties of this invariant, and its connections with other numerical invariants in Commutative Algebra. (Received August 21, 2015)