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David F Anderson* (anderson@math.utk.edu), Mathematics Department, University of Tennessee, Knoxville, TN 37996. *How Far is an Element or Ideal from Being Prime*. Preliminary report.

We will discuss several invariants which measure how far an element or ideal in an integral domain is from being prime and how far an atomic integral domain is from being a UFD. For elements, this is joint work with Scott Chapman, and for ideals, it is joint work with Ayman Badawi. (Received February 09, 2009)