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Rebecca R.G.* (rrebhuhn@gmu.edu) and **Neil Epstein**. *Closure-interior duality over complete local rings*. Preliminary report.

Epstein and Schwede defined a dual to tight closure known as tight interior and proved that this dual, when applied to the ring itself, is often equal to the tight closure test ideal. We discuss a closure-interior duality over complete local rings that generalizes this relationship between closure operations, interior operations, and test ideals, and describe how the duality affects common examples such as trace, torsion, and divisible submodules. (Received January 25, 2019)