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Janet Vassilev* (jvassil@math.unm.edu), Department of Mathematics and Statistics, MSC01 1115, Albuquerque, NM 87131. *Tight Closure, Tight Interior and other closely related ideals*. Preliminary report.

In a recent paper, Epstein and Schwede introduce the tight interior of a submodule, a dual notion to the tight closure of a submodule. We will mainly focus on discussing the tight interior of ideals of a ring and the closely related ideals the $*$ -co-reductions and the $*$ -hulls. We exhibit some interesting connections in certain rings between the tight closure and the $*$ -hull and the tight interior and the $*$ -core. (Received February 09, 2018)