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Louiza Fouli, Janet Vassilev and Adela Vraciu*, vraciu@math.sc.edu. *A formula for tight closure core.*

The tight closure core of an ideal I is the intersection of all ideals $J \subseteq I$ that have the same tight closure as I . We prove a formula for the tight closure core for certain classes of ideals, which include ideals generated by part of a system of parameters, and sufficiently large Frobenius powers of arbitrary ideals (under additional assumptions for the ring). (Received August 24, 2009)