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Sebastian Wyman* (swyman@ufl.edu) and **Douglas Cenzer**. *Weakening computability to classify Π_1^0 subshifts.*

In 2008 Cenzer, Dashti, and King proved that the subshifts arising from the symbolic dynamics of computable functions on the Cantor space are exactly the decidable Π_1^0 classes. We will show a useful lemma which can be extracted from the CDK proof. We then define the weaker notion of conservatively computable functions on the cantor space and explore the correspondence between these functions and arbitrary Π_1^0 classes. (Received January 23, 2012)