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Cody A Tipton* (cat1184@uw.edu). *Frobenius A_∞ Algebras.*

We will present the definition of a Frobenius A_∞ - algebra that extends the classical notation of Frobenius algebras and is a generalization of cyclic A_∞ -algebras. The latter being symmetric Frobenius A_∞ -algebras that are already extensively studied because of their connection with Fukaya categories. Then we will extend some classical results of Frobenius algebras to Frobenius A_∞ -algebras. (Received August 28, 2020)