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Milena Hering* (m.hering@ed.ac.uk) and **Kevin Tucker**. *The F-splitting ratio of a toric variety*. Preliminary report.

The Frobenius morphism is a useful tool in the study of commutative rings and algebraic varieties. One of its uses is to give a measurement of how bad the singularities of a ring are. This measurement is called the the F-splitting ratio, which agrees with the F-signature for normal rings. The F-signature of a normal toric ring was computed by Von Korff. I will give give an introduction to these notions and present the computation of the F-splitting ratio of a seminormal toric ring. This is joint work with Kevin Tucker. (Received February 15, 2016)