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Janet Page* (jpage8@uic.edu). *Frobenius Complexity for Pairs*.

Given a commutative ring R of characteristic $p > 0$, its Frobenius complexity is a measure of the non-finite generation of its total Cartier algebra, which is the ring of all p^{-e} -linear maps on R and can be thought of as the ring of all potential Frobenius splittings. In this talk, I will review some prior results on Frobenius complexity and explain why it is useful to extend this notion to pairs. Further, I will discuss some new results for pairs which are a part of ongoing work. (Received February 20, 2018)