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Katrina Honigs* (honigs@math.utah.edu). *Deforming derived equivalences.*

There are many results characterizing when derived categories of two complex surfaces are equivalent. The proofs of some of these theorems strongly use Torelli theorems and lattice-theoretic methods which are not available in positive characteristic. However, some analogous results may be proven over algebraically closed fields of positive characteristic by lifting derived equivalences from positive characteristic to characteristic 0. We will discuss these methods of lifting and their applications. This work is joint with M. Lieblich, L. Lombardi and S. Tirabassi. (Received February 06, 2018)