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Katrina Honigs* (honigs@uoregon.edu). *Rational points and derived equivalence.*

The derived category of coherent sheaves on a smooth, projective variety connects to many different areas of study in algebraic geometry. However, there are many open questions about which properties of a variety are detected by this invariant. In this talk, I will discuss recent joint work with Addington, Antieau and Frei where we gave the first examples of derived equivalences between smooth, projective varieties where one variety has a \mathbb{Q} -rational point and the other does not. (Received September 02, 2019)