Katrina Honigs* (honigs@math.utah.edu). *Q- 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. There are many open questions about which properties of a variety are detected by this invariant. This talk will focus on the question of whether the property of having a k-rational point is shared by any two smooth, projective k-varieties with equivalent derived categories, and in particular will feature new examples of derived equivalent Q-varieties where one has a Q-point and the other does not. (Received August 26, 2018)