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*Derived categories of torsors for Abelian varieties*

For curves  $C_1, C_2$  of genus not equal to 1 over arbitrary fields, it is known that the bounded derived categories of  $C_1$  and  $C_2$  are equivalent if and only if the curves are isomorphic. The case of genus 1 is much richer, and in this talk I'll describe some recent joint work with Ben Antieau and Matthew Ward on derived equivalence for genus 1 curves over arbitrary fields as well as generalizations to torsors for Abelian varieties.