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Nathaniel Schwartz* (nschwartz2@washcoll.edu) and **John Hutchens**. *On the k -Involutions of G_2 over fields of Characteristic 2*. Preliminary report.

Let C be an octonion algebra defined over a field of characteristic 2. In this talk, we discuss a classification of isomorphism classes of automorphisms of order 2 of algebraic groups of the form $\text{Aut}(C)$. We do this by describing automorphisms of C fixing a 4-dimensional subalgebra, and then describe those which induce an inner automorphism of order 2. For fields of characteristic not 2, a similar classification has been carried out by Hutchens. (Received September 15, 2016)