1116-20-1549   **John Hutchens*** (jdhutchens@gmail.com) and **Nathaniel Schwartz** (nschwartz2@washcoll.edu). *Involutions of type G_2 over a field of characteristic 2.* Preliminary report.

Let C be an eight dimensional composition algebra, then $\mathrm{Aut}(C)$ is a group of type G_2. In this paper we establish a characterization of automorphisms of order 2 and their fixed point groups for groups of type G_2 over a field of characteristic 2. We do this by establishing a connection between the structure of the subalgebras of C, and the elements in $\mathrm{Aut}(C)$ that induce the inner automorphisms of order 2. (Received September 20, 2015)