1125-20-1494 **Paul Sobaje*** (sobaje@uga.edu), 166 Oak Meadow Dr., Athens, GA 30605. *On Springer Isomorphisms For Algebraic Groups.* Preliminary report.

Let G be a simple and simply connected algebraic group over an algebraically closed field k. A 'Springer isomorphism' is a G-equivariant isomorphism from the nilpotent variety of the Lie algebra to the unipotent variety of the algebraic group. In this talk we will consider the following issues: definition of these isomorphisms over subfields, uniqueness results, and finding appropriate scheme structures for the nilpotent and unipotent varieties. (Received September 17, 2016)