

1173-20-207 **George J McNinch*** (george.mcninch@tufts.edu). *On reductive subgroups of a reductive group over a local field.*

Let G be a reductive group over the local field K , and suppose that G splits over an unramified extension of K . In some recent work, the author related certain reductive K -subgroups of G with reductive subgroup schemes of parahoric group schemes associated to G .

Subsequently this work was applied by the author to prove results about the $G(K)$ -orbits on K -rational nilpotent elements.

This talk will recapitulate parts of this story, emphasizing the role of reductive subgroups. (Received September 20, 2021)