

Zhe CHEN : *Orbits and representations of Lie type groups over local rings*

*Abstract* : In this talk I would start by introducing Deligne–Lusztig theory via a concrete example, then I will turn to its generalisation for reductive groups over discrete valuation rings. In this latter case, besides Deligne–Lusztig theory one also has a Clifford theoretic approach to the representations of these groups, using orbits of the Lie algebras ; I hope to discuss some recent progress concerning the interaction between higher Deligne–Lusztig representations and these orbits.