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From the function-sheaf dictionary to quasicharacters of p -adic tori

Motivated by an application to the geometrization and categorification of quasicharacters of p -adic tori, David Roe and I have extended Deligne's function-sheaf dictionary from connected commutative algebraic groups to smooth commutative group schemes over finite fields. In this talk I will explain how to use this extended function-sheaf dictionary to geometrize quasicharacters of algebraic tori, abelian varieties and unipotent wound groups over local fields using local systems on Greenberg transforms of Néron models. Joint work with David Roe.