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Title: Sustained p -divisible groups and Hecke orbits

Abstract: The notion of “*central*” leaves was introduced by Oort to provide a geometric structure associated to prime-to- p Hecke orbits on moduli spaces of abelian varieties. The original “*pointwise*” definition, which relies on the notion of “*geometrically fiberwise constant p -divisible groups*”, is not easy to handle. Recently in collaboration with Oort, a notion of “*sustained p -divisible groups*” was found, which has many advantages over the notion of “*geometrically fiberwise p -divisible groups*”. We will discuss properties and applications of this notion to the Hecke symmetries of moduli spaces of abelian varieties in characteristic p .

(Note: The adjective “*sustained*” in “*sustained tones*” inspired the name “*sustained p -divisible groups*”.)