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**Jeffery Breeding\*** (jbreeding@fordham.edu), Fordham University, 441 East Fordham Road, Bronx, NY 10458. *Jacquet modules and dimensions of spaces of fixed vectors.*

Consider the connected reductive algebraic group  $G = \mathrm{GSp}(4, F)$  defined over a non-archimedean local field  $F$  of characteristic zero with ring of integers  $\mathfrak{o}$  and maximal ideal  $\mathfrak{p}$  such that  $\mathfrak{o}/\mathfrak{p}$  is a finite field with  $q$  elements. Let  $(\pi, V)$  be an admissible representation of  $G$ . In this talk, we discuss how to use Jacquet modules to compute the dimension of the space of  $\Gamma(\mathfrak{p})$ -fixed vectors of  $\pi$ , where  $\Gamma(\mathfrak{p})$  is the principal congruence subgroup of  $G$  of level  $\mathfrak{p}$ . (Received June 21, 2013)