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Jeff Breeding* (jbreeding@fordham.edu), 441 East Fordham Road, Fordham University,
Department of Mathematics, Bronx, NY 10458. *Dimension formulas via the Jacquet functor.*

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} . Let (π, V) be an admissible representation of G . In this talk, we discuss how to use the Jacquet functor and the work of Moy and Prasad to compute the dimensions of spaces of $\Gamma(\mathfrak{p})$ -fixed vectors of π , where $\Gamma(\mathfrak{p})$ is the principal congruence subgroup of G of level \mathfrak{p} . (Received August 13, 2013)