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The Serre filtration on mod p Hilbert modular forms of level p

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A result of Serre relates the space of mod p modular forms of level Gamma_1(Np) and weight 2 to the spaces of mod p modular forms of level Gamma_1(N) and weight between 2 and p+1. I'll explain a generalization of this to the context of Hilbert modular forms involving a mod p geometric Jacquet-Langlands correspondence. The resulting filtration on mod p Hilbert modular forms of parallel weight 2 and pro-p Iwahori level mirrors the more evident one in cohomology coming from the mod p representation theory of GL_2. This is joint work with P. Kassaei and S. Sasaki.

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