

# Séminaire de théorie des nombres

Le 23 février 2015 à 14h (Jussieu)

## An elementary construction of $p$ -adic families of Hilbert Modular forms.

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**Résumé :** In this short note, we use an idea of Buzzard and give an elementary construction of a  $p$ -adic family of Hilbert Modular eigenforms. In previous work of the author, results on local constancy of slope  $\alpha$  spaces of Hilbert modular forms were obtained in the spirit of the Gouvea-Mazur conjectures. Assuming the dimensions of the slope  $\alpha$  spaces is 1, we are able to obtain a  $p$ -adic family of Hilbert Modular Forms.