

# Séminaire de théorie des nombres

Le 12 novembre 2012 à 14h (Chevaleret)

## Families of trianguline representations and finite slope spaces.

Exposé de Eugen Hellman  
(Bonn)

### Résumé :

We show how to cut out families of Galois representations from Che-  
nevier's space of trianguline  $(\phi, \Gamma)$ -modules. This yields a new defi-  
nition of Kisin's finite slope subspace as well as higher dimensional  
analogues. Especially we show that these finite slope spaces contain  
eigenvarieties for unitary groups as closed subspaces. This implies that  
the Galois-representations on eigenvarieties for certain unitary groups  
form a trianguline family over a dense Zariski-open subset.