Séminaire de théorie des nombres

Le 6 Juin 2011 à 15h (à Jussieu)

A functor from (φ, Γ)-modules to $\mathrm{GL}_d(\mathbb{Q}_p)$-equivariant sheaves on flag varieties

Exposé de Gergely Zabradi
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Résumé : Let D be an étale (φ, Γ)-module over Fontaine's ring. We construct a $\mathrm{GL}_d(\mathbb{Q}_p)$-equivariant sheaf associated to D on a variety of complete flags in a d-dimensional $\mathbb{Q}_p$-vector space. This is intended as the analogue of Colmez $P1 \boxtimes D$ for $\mathrm{GL}_d(\mathbb{Q}_p)$ and will hopefully have applications in the p-adic and mod p Langlands programme. It is still an open question under what assumptions does this sheaf have a compact $\mathrm{GL}_d(\mathbb{Q}_p)$-subrepresentation whose dual could correspond to D via the conjectural Langlands correspondence. This is joint work in progress with Marie-France Vigneras and Peter Schneider.