

**families of galois representations and selmer groups** - families of galois representations and selmer groups 3 7.1. introduction 158 7.2. definition and basic properties of the eigenvarieties 161 7.3. eigenvarieties attached to an idempotent of the hecke-algebra 167 7.4. the family of  $g(\text{ap } f)$ -representations on an eigenvariety of idempotent type 179 7.5. the family of galois representations on ... **algebraic families of galois representations** - algebraic families of galois representations 19 4. families of etale  $\tilde{\rho} \in \hat{\mathbb{A}}^{\text{TM}}$ -modules and kisin modules 27 5. period maps and  $(\tilde{\rho} \in \hat{\mathbb{A}}^{\text{TM}}; n)$ -modules in families 38 6. algebraic families of potentially semi-stable galois representations 45 ... and the study of selmer groups. to state our first main result, recall that a pseudorepresentation of  $g$  is the data **joel bellaïche and gaetan chenevier**, **arxiv:math** ... -  $p$ -adic families of galois representations and higher rank selmer groups joel bellaïche and gaetan chenevier contents introduction 5 1. pseudocharacters, representations and extensions 10 1.1. introduction 10 1.2. some preliminaries on pseudocharacters 14 1.3. generalized matrix algebras 20 1.4. residually multiplicity-free ... **vanishing of l-functions and ranks of selmer groups** - vanishing of l-functions and ranks of selmer groups christopher skinner and eric urban ...  $p$ -adic modular forms, galois representations, selmer groups, l-functions. 0. introduction ... the proofs of theorems a and b rely crucially on the theory of  $p$ -adic families of automorphic representations, especially as developed in [kl] and in [u06]. ... **algebraic families of galois representations and ...** - algebraic families of galois representations and... 1619 of  $g_{\text{ld}}$  on the scheme of framed representations  $\text{rep}, d, r$ , whose associated quotient stack is  $\text{rep } d, r$ , has  $\text{git}$  quotient nearly equal to  $\text{psr } d, r$ . in order to establish this, we **vanishing of l-functions and ranks of selmer groups** - keywords.  $p$ -adic modular forms, galois representations, selmer groups, l-functions. introduction this paper aims to connect the order of vanishing of the l-functions of certain (mo- ... the proofs of theorems a and b rely crucially on the theory of  $p$ -adic families of automorphic representations, especially as developed in [kl] and in [u06]. **construction of euler systems** - construction of euler systems david loeffler and sarah livia zerbes 1. course outline ... relates values of l-functions to the cohomology of global galois representations. ... euler systems and selmer groups in coleman families. modular forms can **chenevier's lectures on eigenvarieties of definite unitary ...** - chenevier's lectures on eigenvarieties of definite unitary groups chung pang mok 1. introduction ... integers and associated selmer groups. part (3) (lectures 6, 7) would be the main motivation of the lectures. a basic ... g. chenevier,  $p$ -adic families of galois representations and higher rank selmer groups, preprint. [2] kard ... **a galois cohomological proof of gross's factorization theorem** - a galois cohomological proof of gross's factorization theorem daniel kriz abstract. in this note, we give a new proof for gross's factorization of the katz  $p$ -adic ... attached to the above galois representations  $k$ ; ... suppose we are given two families of  $p$ -adic hecke characters  $\tilde{\chi} : a \rightarrow \mathbb{Q}_p$  whose associated  $p$ -adic galois representation ... **an algebraic  $p$ -adic l-function for ordinary families** - an algebraic  $p$ -adic l-function for ordinary families abstract. in this thesis, we construct algebraic  $p$ -adic l-functions for families of galois representations attached to  $p$ -adic analytic families of automorphic representations using the formalism of selmer complexes. this is achieved mainly through making a modification of **construction of automorphic galois representations, ii** - cambridge journal of mathematics volume1,number1,53-73,2013 construction of automorphic galois representations, ii gaetan chenevier and michael harris inmemoryofjonrogawski **eigenvarieties for definite unitary groups over the ...** - families of galois representations and selmer groups. ast erisque, 324:1{314, 2009. [3]kevin buzzard. on  $p$ -adic families of automorphic forms. modular curves and abelian varieties, pages 23{44, 2004. [4]kevin buzzard. eigenvarieties. l-functions and galois representations, london math. soc. lecture **on the rank of selmer groups for elliptic curves over  $q$**  - on the rank of selmer groups for elliptic curves over  $q$  eric urban january 28, 2013 abstract the following are extended notes of a lecture given by the author at the international col-

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