

Abelian varieties & Galois actions

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ABSTRACTS

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Title : *The abelian part of a compatible system*

Abstract : Let K be a number field and $\{V_\ell\}$ a strictly compatible system of semisimple Galois representations of K arising from geometry. Denote by V_ℓ^{ab} and G_ℓ respectively the maximal abelian subrepresentation and algebraic monodromy group of V_ℓ . We give conditions on G_ℓ such that the abelian subsystem $\{V_\ell^{ab}\}$ is also strictly compatible, which is conjectured to hold.