

# Completed cohomology of Shimura curves and a p-adic Jacquet-Langlands correspondence

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We study indefinite quaternion algebras over totally real fields  $F$ , and give an example of a cohomological construction of p-adic Jacquet-Langlands functoriality using completed cohomology. We also study the (tame) levels of p-adic automorphic forms on these quaternion algebras and give an analogue of Mazur's 'level lowering' principle.

Comments: 24 pages

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MSC classes: 11F33, 11F41

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