

A p -adic transcription of Weil II

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Abstract

The "rigid cohomology" of Berthelot is a p -adic cohomology theory for varieties in characteristic p , constructed from the de Rham cohomology of certain rigid analytic spaces. Thanks to recent progress in the theory of p -adic differential equations, it is now possible to give rigid analogues of Deligne's results from Weil II, and in particular obtain a p -adic proof of the Weil Conjectures. We will discuss how this is done.