

If the ℓ -adic cohomology of a projective smooth variety, defined over a local field K with finite residue field k , is supported in codimension ≥ 1 , we show that every model over the ring of integers of K has a k -rational point. If the model \mathcal{X} is regular, it was known a congruence $|\mathcal{X}(k)| \equiv 1$ modulo $|k|$ for the number of k -rational points. We also show that the congruence is violated if one drops the regularity assumption. This is a joint work with H.Esnault.