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Isabel Leal* (isabel@math.uchicago.edu). *On the ramification of étale cohomology groups.*

Let K be a complete discrete valuation field whose residue field is perfect and of positive characteristic, let X be a connected, proper scheme over \mathcal{O}_K , and let U be the complement in X of a divisor with simple normal crossings.

Assume that the pair (X, U) is strictly semi-stable over \mathcal{O}_K of relative dimension one and K is of equal characteristic. We prove that, for any smooth ℓ -adic sheaf \mathcal{G} on U of rank one, at most tamely ramified on the generic fiber, if the ramification of \mathcal{G} is bounded by $t+$ for the logarithmic upper ramification groups of Abbes-Saito at points of codimension one of X , then the ramification of the étale cohomology groups with compact support of \mathcal{G} is bounded by $t+$ in the same sense. (Received August 02, 2016)