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 $\ell$-adic sheaf $G$ on $U$ of rank one, at most tamely ramified on the generic fiber, if the ramification of $G$ 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 $G$ is bounded by $t+$ in the same sense. (Received August 02, 2016)