Title:
On Scholze’s vanishing theorem

Abstract:
Scholze’s theorem for projective varieties after fixing coordinates is for étale cohomology with finite coefficients. It is proved with perfectoid methods. It lies between Artin-Schreier theory (proper varieties) and Artin vanishing theorem (for affine varieties). We prove it with by a direct method. In particular we prove it in positive characteristic, which does not follow by perfectoid methods.