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Hodge-Tate decomposition for non-smooth spaces. (English) Zbl 07683518
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Summary: In this article, we generalize the Hodge-Tate decomposition of $p$-adic étale cohomology to non-smooth rigid spaces. Our strategy is to study pro-étale cohomology of rigid spaces introduced by Scholze, using the resolution of singularities and the simplicial method.

MSC:
14G22 Rigid analytic geometry
14C30 Transcendental methods, Hodge theory (algebro-geometric aspects)
14G20 Local ground fields in algebraic geometry
14E15 Global theory and resolution of singularities (algebro-geometric aspects)

Keywords:
$p$-adic Hodge theory; étale cohomology; rigid analytic spaces; resolution of singularities

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