

**Hartl, Urs T.**

**Semi-stable models for rigid-analytic spaces.** (English) [Zbl 1099.14010](#)  
*Manuscr. Math.* 110, No. 3, 365-380 (2003).

Summary: Let  $R$  be a complete discrete valuation ring with field of fractions  $K$  and let  $X_K$  be a smooth, quasi-compact rigid-analytic space over  $\mathrm{Sp} K$ .

We show that there exists a finite separable field extension  $K'$  of  $K$ , a rigid-analytic space  $X'_{K'}$ , over  $\mathrm{Sp} K'$  having a strictly semi-stable formal model over the ring of integers of  $K'$ , and an étale, surjective morphism  $f : X'_{K'} \rightarrow X_K$  of rigid-analytic spaces over  $\mathrm{Sp} K$ . This is different from the alteration result of *A. J. de Jong* [*Publ. Math., Inst. Hautes Étud. Sci.* 83, 51–93 (1996; [Zbl 0916.14005](#))] who does not obtain that  $f$  is étale. To achieve this property we have to work locally on  $X_K$ , i.e. our  $f$  is not proper and hence not an alteration.

**MSC:**

[14G22](#) Rigid analytic geometry

Cited in **1** Review  
Cited in **3** Documents

**Full Text:** [DOI](#)