

Blow-ups and flattening in the Berkovich setting

Abstract: Let $Y \rightarrow X$ be a morphism of analytic spaces (in the sense of Berkovich) and let F be a coherent sheaf on Y . In this talk, I will explain to what extent the sheaf F can be made X -flat by performing blow-up and strict transform. Though the general strategy is inspired by the seminal paper of Raynaud and Gruson, the precise statement as well as the proof are slightly more complicated than their scheme-theoretic counterparts.