

Working Notes

Your Name

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Aim

State the current question in one sentence.

Lemma 1 (Toy case). *If X is affine and \mathcal{F} is coherent, then ...*

Proof. Sketch the toy model / counterexample here. □

Next steps

- Reduce to local statement on $\text{Spec } A$.
- Examine obstruction in Ext^1 .

1 Base change sanity check

State the precise hypothesis. Outline the reduction to the affine toy model, then record the obstruction group in Ext^1 .

Lemma 2. *If $f : X \rightarrow Y$ is ...then base change holds for \mathcal{F} .*

Proof. Sketch... □