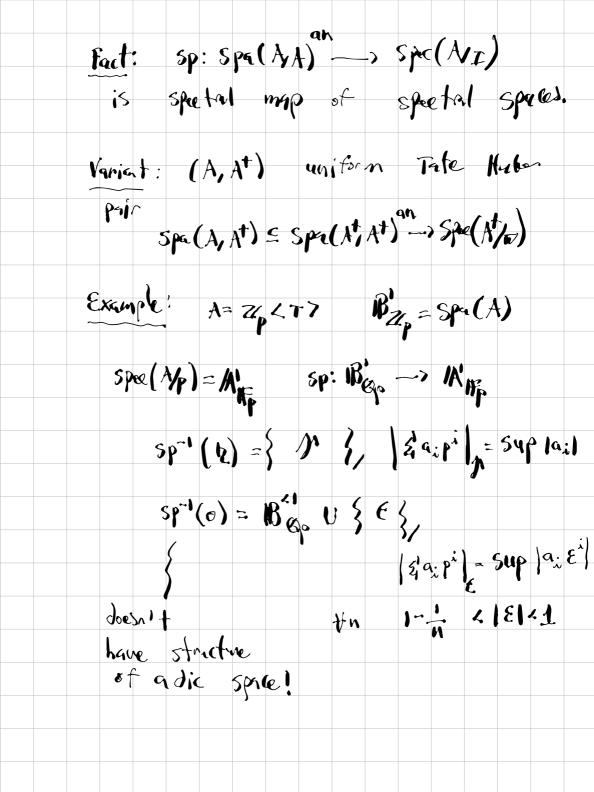
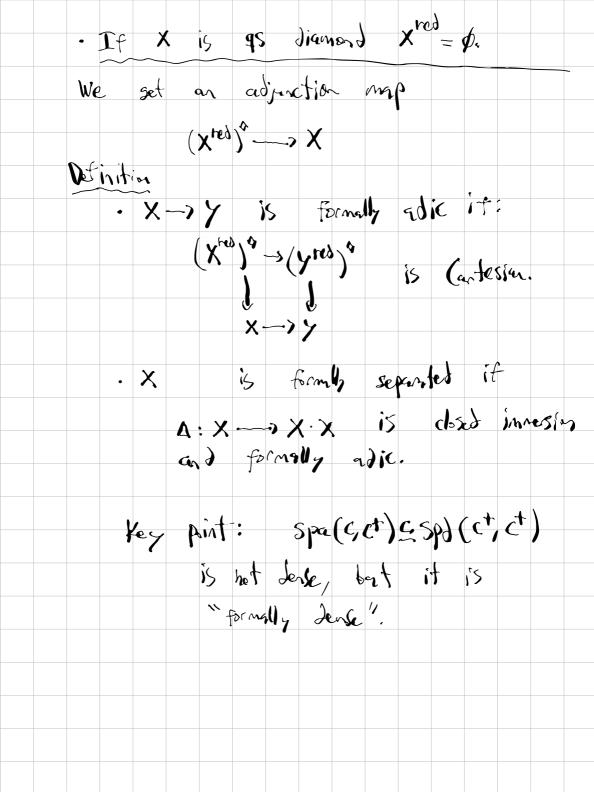
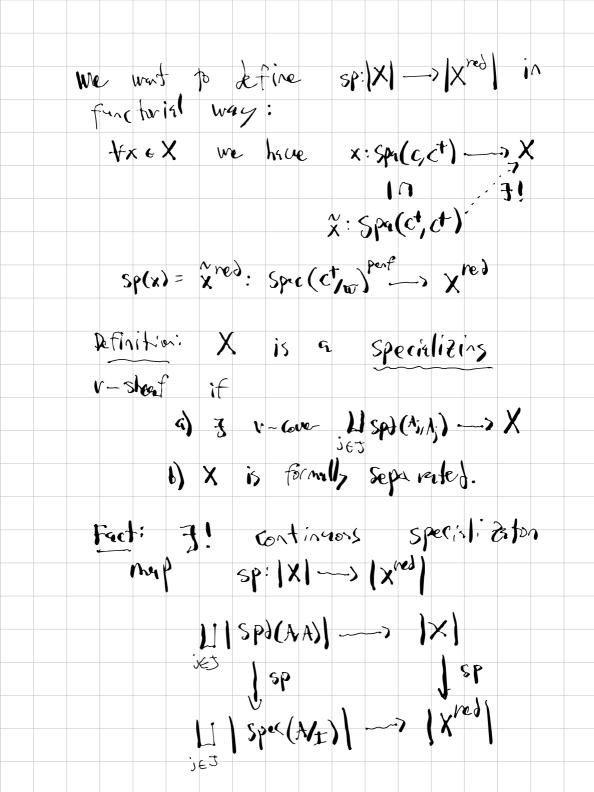
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More generally for X a Question: xe |x| what is spex)? v-sheaf Reduction Functor Put | v - sheaves | Sch | v - sheaves | spa(A) = spd(A,A), continuous admits right adjoint (-) hed Hom (Spec (A), Fred) = Hom (Spec(A), F) \mathcal{E}_{X} : $\left(\mathsf{X}^{\mathsf{A}} \right)^{\mathsf{red}} = \mathsf{X}$ B I adic vins over Rp

Spd (B,R) red = spec (B/I) target of Specialization.





Imitation game:	
	· General Setup where specialization map is defined.
specialitiess }	where specialization
) v-sheaves	map is defined.
	_ '
	we ask for reduced Special fibe to be well-behaved. Good notion of etale
	special fiber to be
Stre-Kimberlites }	well-behaved.
	· Good notion of etale
	site/newby cyclo
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Imitation game $\left(\left(\left(\left(\right)^{n} \right)^{n} \right) \times \left(\left(\right)^{n} \right) = 0$ innersian { Pre-Kinberlites} [. xred perfect schene Smelted Seneric fiber is kimberlites | Seneric fiber is locally special diamond. (Spatia) | Kimberlite +

Kimbelites | X -> * rep

in locally spatial

diamonds + gcqs formal, adic Cover.

Theorem: (5 notted - 10 in berlite) If x is a kinderlite, the specialization map is continuous to the constructible topology of Xrd and Xan. Moneover it is a closed map. Tubular and formal neighborhood: Recall that on Box spilos= Box v se} spilo) has diamond structure. this is the Berthelot trabe. Let X be a pre-kinsberlite and S = 1xres | a locally closed sybet ve défine whereve Sp (f(spr(p)) & S.

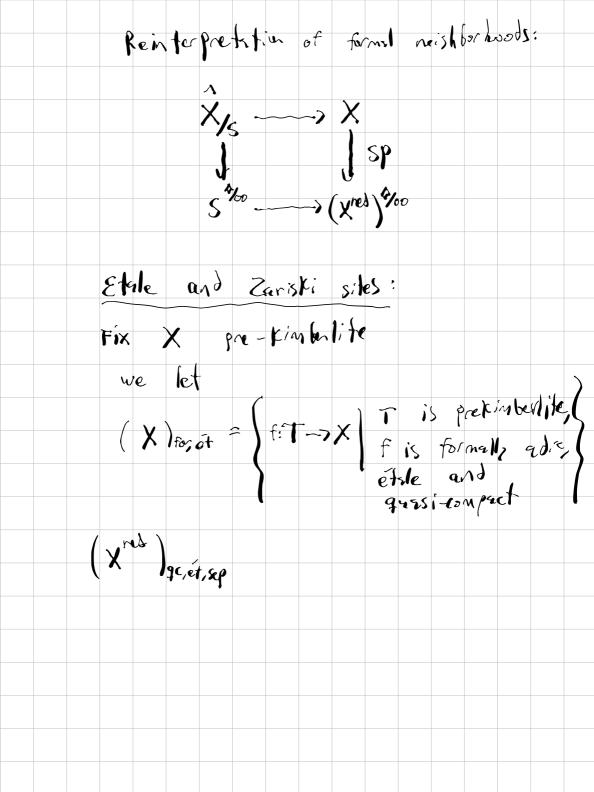
Hene's specialization map: Recall Spec (4) (R, pt)

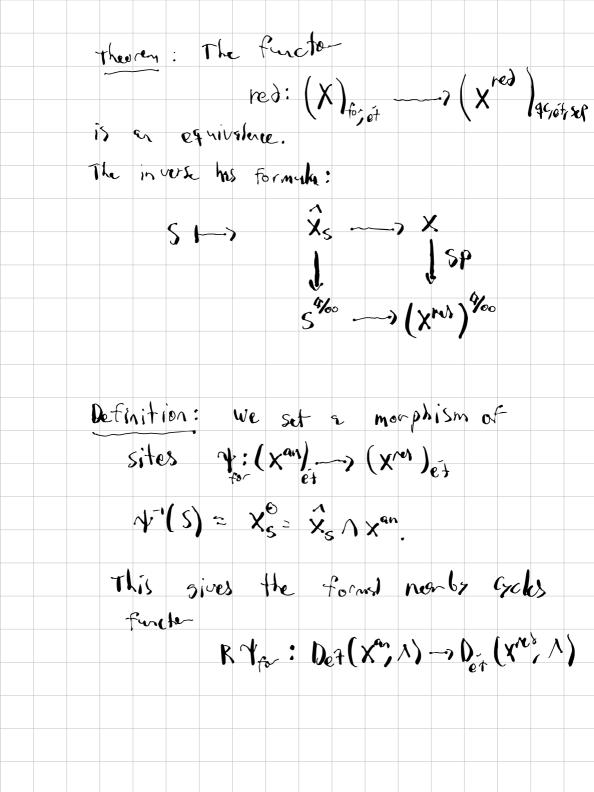
= \(\frac{1}{4} \rightarrow \)

= \(\frac{1}{4} \rightarrow \)

Theorem (Heuer) Spec (A) \(\frac{1}{4} \rightarrow \)

is a v-sheat. Proposition If X is a pre-kimberlite Definition there is a nap of v-shows SP: X -> (x 10) 5/00, given by formale sport ~ red 5p(R,pt) -> X -> (X ->) 900 spec (R) perf) fred xred





we write j: Xan cox x (xm) and we have analytic near by crobs RYan := jxit : Def(xan, 1) -> lef(xan, 1) Det (xel,) Comparison Thm: 1) C Ryan = RY 2) If Ryan (A) = c*(B) then $B \subset R \bigvee_{f \sim f} (A)$. Warning: R Van (A) is not always of this