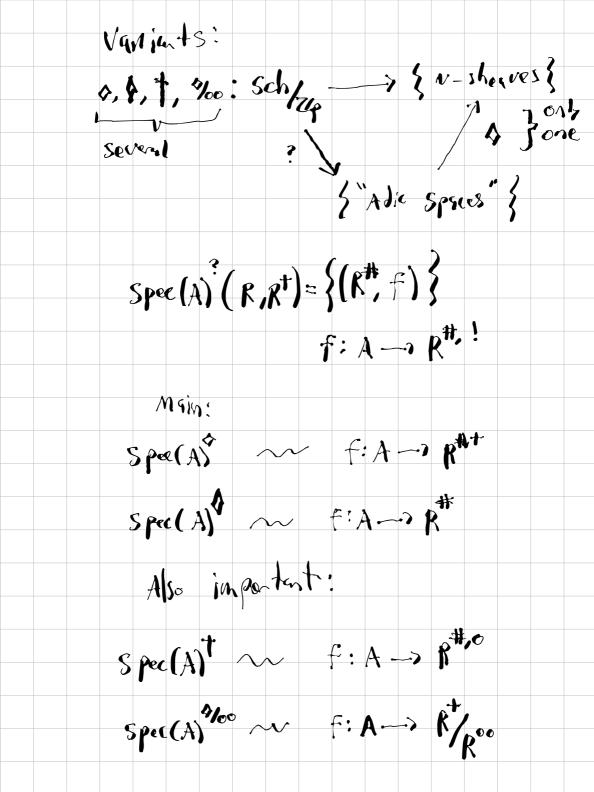
Into: What an Finbedites? diamonds of By.

Spies of Grassmin

A do Gig ? S. V-Shaves Goal: find? that retains Key properties of formal schores but also Contains Graphize

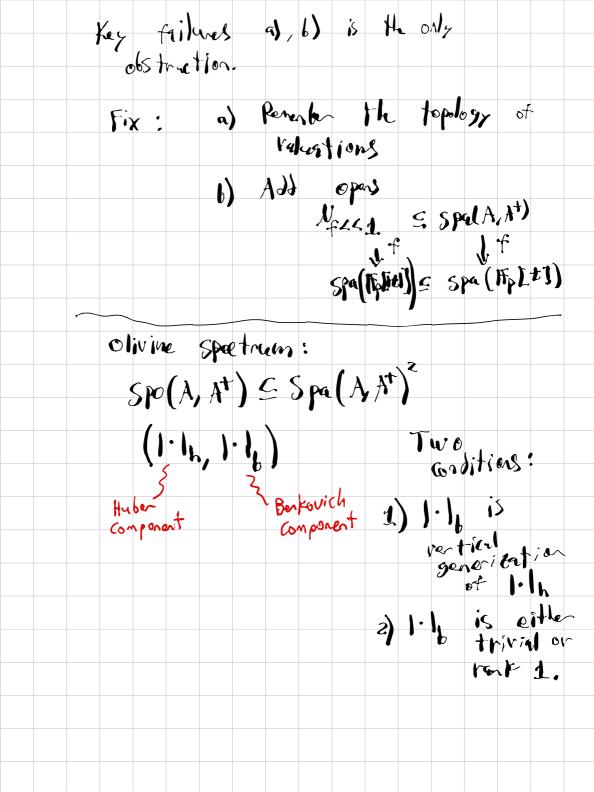
Talk 1: Fix (A) At) a Huber pair over Zp. (Not necessarily enlytic!). we attach a v-short spd(A, A+):/Per/> Sets by formula $SpJ(A,A^{\dagger})[R,R^{\dagger}]=$ $\{R^{\dagger},\hat{T}\}$ $\{R^{\dagger},R^{\dagger}\}$ This extends to a function { Adre Spales/Zp } ~~ Sheaves } This is the diamond function for adja sprees.



Example: A= Zp[T] $Spec(A)^2 = B_{Zp}^1 / Spec(A) = A_{Zp}^1$ $Spec(A) = B_{Zp}$ $Spec(A) = B_{Zp}/B_{Zp}$ Topological Spaces: If X is a v-sheaf
we let |X|= \ f: Sp.(c,ct) -> \ \ /\n f N 9 if 3 h, h2 spa(4, Lt) has space, ct) p he Spa(K, pt) 3 Question: what is the topological space of Spec (A) or Spec (A)]. More : what is spd(A, At) ?

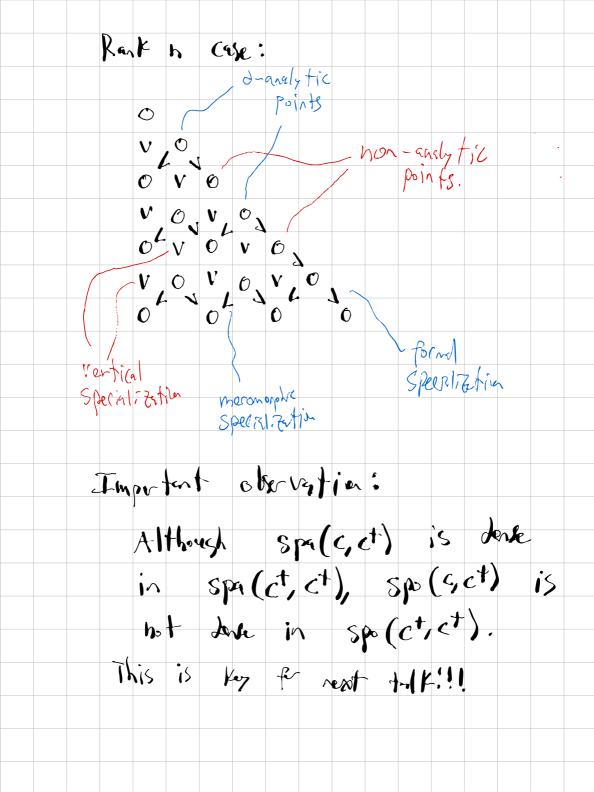
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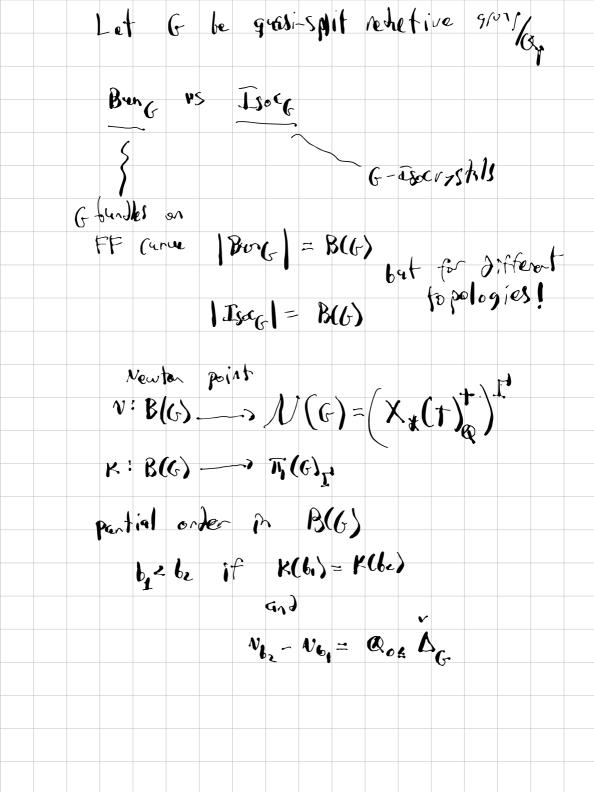
About a) Take V a char p DVR with unifornizer rev, endowed with the discrete topology. Let K=V[#] $Spec(V) = \begin{cases} h \\ V \\ S \end{cases}$ Special horizontel Special: Extion 1.1. V - R, characterized 64 0111111 1 infinitesinally spa(K((t)), V+ t. K[iti]) ~ smiler than 1 sp)(vv) > spa(Vm[m], Vm) Both map

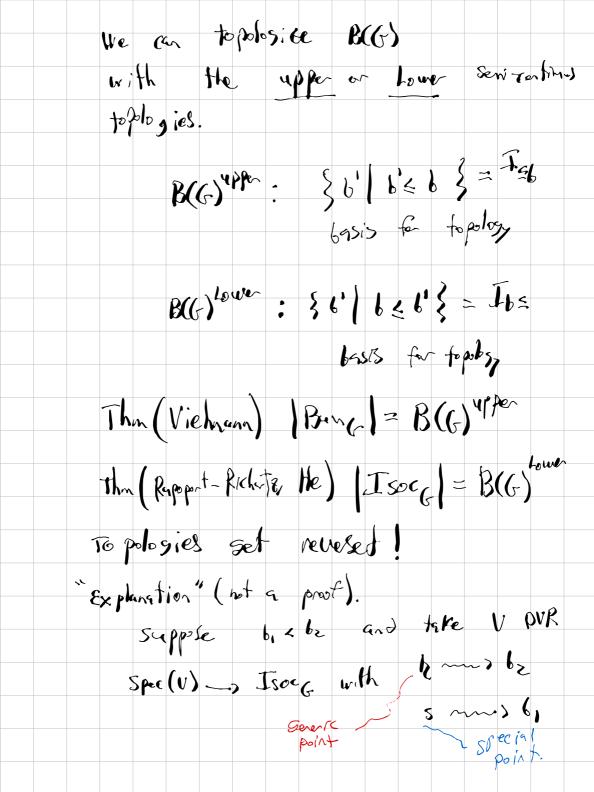


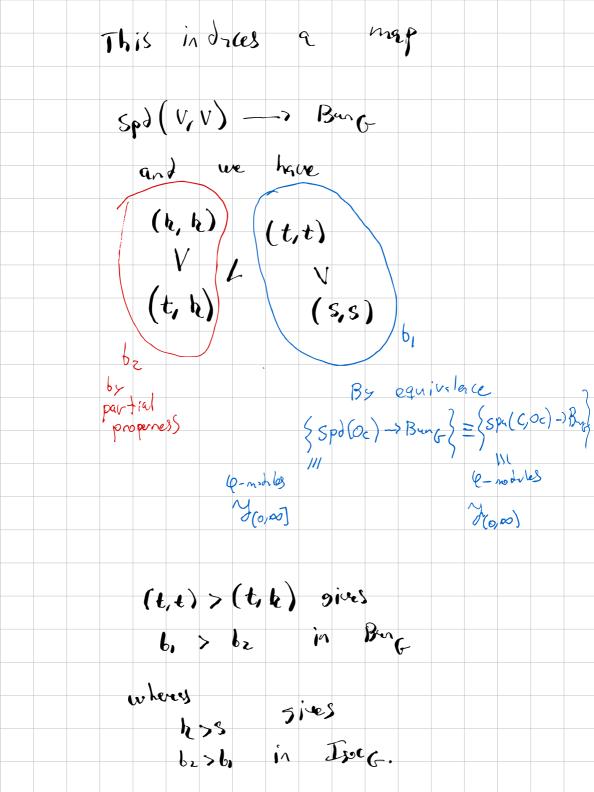
Basis of topology: . classical spo(AAt) - Spa(AAt) (1.18,1.18) -> 1.18 we ask that h is can timuous: $u_{\frac{4}{5}\frac{1}{5}} = h'\left(u\left(\frac{f}{5}\right)\right)$. Anlytic Localizations: Macs = { (1-1/4) | 1+1/2 2 191/4 & If g is a unit this is the same as asking 1=1<-1 The There's a bijective anonirs! continuous map spot (A A+) | -> Spot (A A+). It is a homeomorphism it i a) the finiteness condition * holds. 1) A, At are valuation vinss. * A and At are topologically of finite type over a riss of kfinition

Corollary: Hom(X, y) = Hom(X', y')wherever x is a perfect non-analytic adic space in charp and y is Example: Take V a char p DVR with uniformized nev, endough with the discrete topology. Let K=V[in] Spec $V = \begin{cases} h \\ v \end{cases}$ Spec $V = \begin{cases} k \\ t \end{cases}$ Spec $V = \begin{cases} 1 \le T \end{cases}$ Spec $V = \begin{cases} T \end{cases}$ Spec $V = T \end{cases}$ Spec $V = \begin{cases} T \end{cases}$ Spec $V = T \end{cases}$ Spec $V = \begin{cases} T \end{cases}$ Spec $V = T \end{cases}$ Spec $T \end{cases}$ Spec $T \end{cases}$ Spec $T \rbrace$ Spec $T \rbrace$ Spec $T \rbrace$ Spec $T \rbrace$ Spo(K,V) = 3 T \$0} $Spo(\hat{V}_{\overline{n}}, \hat{V}_{\overline{U}})$ { TZ = T #0}









One can pour Isoce Chyo Isac [RR] BUNG, 56 Open Bung [FS] and bre still in Bonc New S ift J Spec(v) - Stroc Work! Take b, 6 Isogby the b. E Bung, Ebz so breshi in Buc Viens - · 3 Spec V -> Isoc h ~ > | pr 5 ~~> 61 1, € } 623