taledin, Cyclic honday of addrest kind. Alle esse. algor flat com, my k 1+0+0' A03 1-0 A03 If 43 Co, He son- while is regele Del: HP'(A) in total cple. It has been charp, may be recomptill. Zp/p=A, then Hora (A) = BDR/P Hipa Boy/p Relinsa - Dhot padic Hodge: A committing A. free simplement res. Prodice (A) & Rh. bigh.

From the of the p. tosis.

Figure (A) & N'D(A) (a may is) = D'(A)

i-log (A) = D'(A) Na(A) =) Floride (A)

Thm: (1) HP(A) is team (2) If A is smooth (as a dg. 4/gets), we have an exact temple HP'(A) -> HP(A) -> HP(A) 00 -> Example: A=k=Z. HP'(A) = Q/Z ((4)) [] deg 4 = 2 $\mathbb{Q}_{2} \rightarrow \mathbb{Z} \rightarrow \mathbb{Q}_{2}$ (D/P; there two are the same) Genal (non-sups th) Prop: Assure pk = 0. Then we have a spectal sequence HH. (ACI) ((41)) => HP (A) Sn. la + H&R From the lavel poe sers in it. (HI bunder above) liangula spectal sequence) NOT ((4)) /) (=) Marta mount, etc. For DEA: A /k aga Hochschild handogy: sun total -) il dgas quasi-80, HII. sne. (Postelsky: Product-Hall cplx.) eithe 20, 5-7, 01

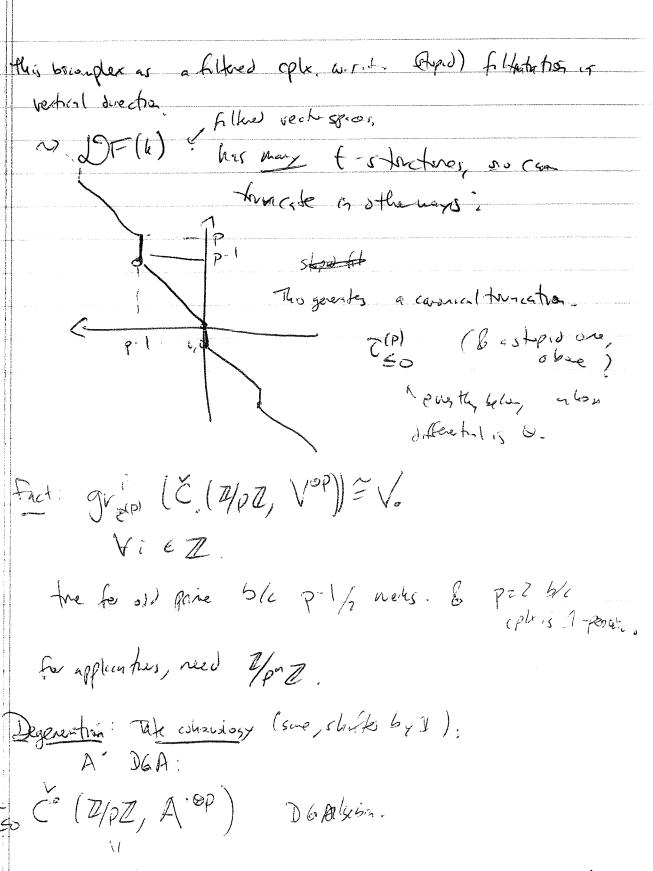
. (A') sur total oply. (an -unital HI+: B: CH.(A) >> CH.(A)[1] > (1.(A-1(4-1))) -> CH-(A-)((4-1)) FP(A) IN HP(A) IN AP(A) HP.(A) I) HP.(A) all. Then: (3) Il A 15 s mook I is an iso.
"Umperel"? (2) A 6) ded above #/k-100 => III iso.
(3) " " below / " => I iso. (snorth byge (4) A bounded above/k => IV is on iso. All the theory debet vin A & E Knicker (A, topou).

HP. (E.), HP.(E) only light on E. C.D.(N. 12). Colling at 1. 5

and the theory debut of the methy??

(F) (E), 1 (F) are not 9. 30 msh but go HP. (A.), HP (A.) are of & HP. (A.) Horta myt. Why? Prop. 355 HH. (A(1)) ((4-1)) => HP (A). & Tis Mark mut. About press. GOT KETTO + get not of From thist. The Williamslay = V, Viez. (x) &; Ito+ -+ 0 PT: VB Cole & V showloge. Evertually gues vise to a Cutier is a for algebra. What do we do if V is a complex of vector spaces? Vo Co(7/27/VP) is a bicouplex. Lohlas a one of the wars [Vep 1-5 Vep ((-1))

d= (2-0)+4 & (x). Treat



P(A°) is an Heater oxforsion of A by Letter A (Q) i= Z.

Pap: Co-pyrt spectal signance for A degenerate if (F??) P(A)) -> A splits

Jade [Air)
Air)