Last the, while C(D) na = C(L) na = D·a

D a Centerdinor whose class comes yours to the live bundle L

Two thys today:

Isomorphism to rect hundles!

V = vih al rk row X

Then CHi(X) The CHi+r(V)

is an isomorphism.

C. Defometor to normal cone

Assol: re alled pullback f:X-y flat

f:Z(y)->Z(x)

[2)-(1-12)]

in practe: most important are

some in. in.

u->X apen immuser and flat

Proof (sketch): Te B surjecte In care: X = Speck is = pt. CH, (PH = CH, (A)) Z.(A) = Z.(A) = Z ingental, reduce to care X affre, V/X is A/X indut on dim X. on bill Can. I dim d chank UCX alfre aper St. VI w Au progresshered that pullbrock CH; (X/u) - CH; (X) -> CH; (u) -> O Zi(x) - Zi(u)) Wi din ist ti'er(mz とめいろ)=ハル cause Wiex K(M) = K(M)) & divalfi) = B B-aczi(XIV) smaller dim

CH: (XIU) -> CH:(X) -> CH:(U) -> O ĮΣ CHO(V) >> CHO(V) >> O Au sa by induction if true or tru hundes then by dig chee, middle is also an iso. reduced to cook of AX - X = Spec A CHi(x) - CHin (Ax) fector ? notice that CHi(X) -> CH; (XXX) -> CH; (XXX) ->... Sq rudure to car it A'x Spec A -> Spec A ACt) - A green a price POA Hen TT'(p) = PA[t] So TEPZ= TPA [t)] A/ demin A/(Ct) AR & AEED is admin

to show IT is surporte (in CH), want to shot of GOARES induct on dim A t | Spec | A'k TI See Spec const T(Q) = QnA # if cycle (2) & Zitr (A'x) such that T(2) 4 X Hen cansol. [2] ATES CO, AX [2] by wooten in dim, [2] = The B via some Lemmas in Foltra [2] = j+ # = # i, B = # (i, B) WLOG, Z -> X is dominant. Kathan => QnA=(i) so QK[t] = K[t] is a northis page ideal.

```
QAACHI pre sit. QAA=W) (why??)
                            S = A1803
                          Qn(A) (A)
  QKEt) = rE)KEt)
             rlt) & K[t] C K(t) = K(A)
consult down of r(t) as an elevent foldy
  in A'A the are Zkinds-tyres
             1. pres which dannak Speek

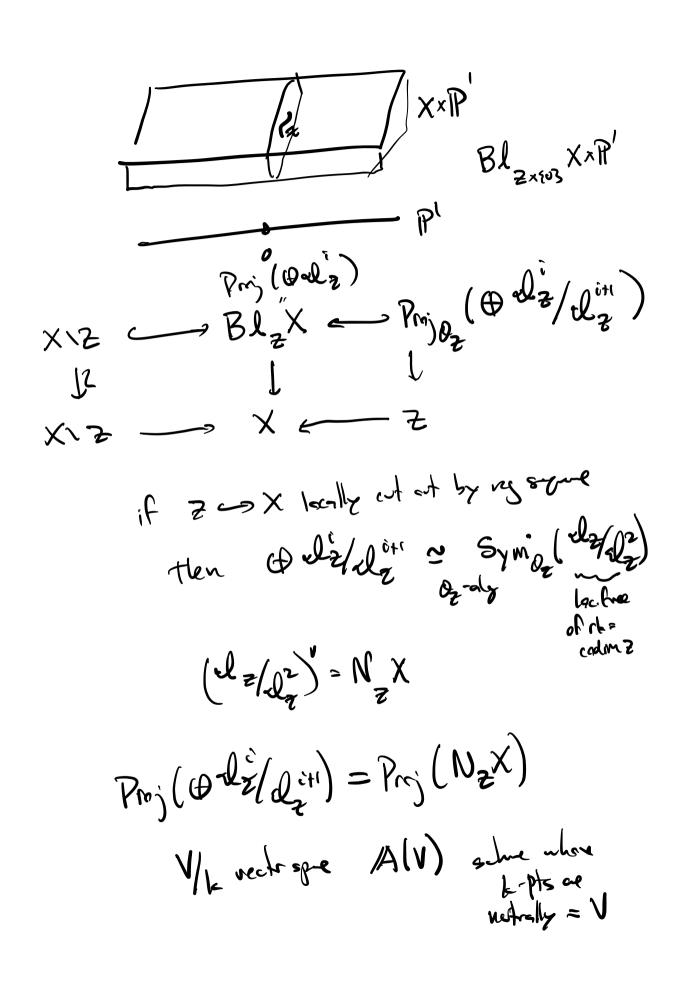
(map to se pt douster)

Z. pres that doub.

pres in KEt)
by constitut, Vitype 1 gred (TC+3)
                any to at Q.
    divarante A.
in CHita (A) [a] = [a)-div (rct)
                      = SNEPres lout lon?
```

but now, as make, done by induction!

Goals dhe pollbeck (Gysin) map associated to a restarty embedded closed estimety Z Codin e CHX - CHZ idea; want to count an intractor problem it was to a "[wasized wsion" Z = zero vator Cove associated to W, WIZ $(\text{Lig})^* z = \text{lig}^*_{j}$ constict a family principally P'
most files will be X is special will be Odthe of process:



A(U) = Spec (S'V*)