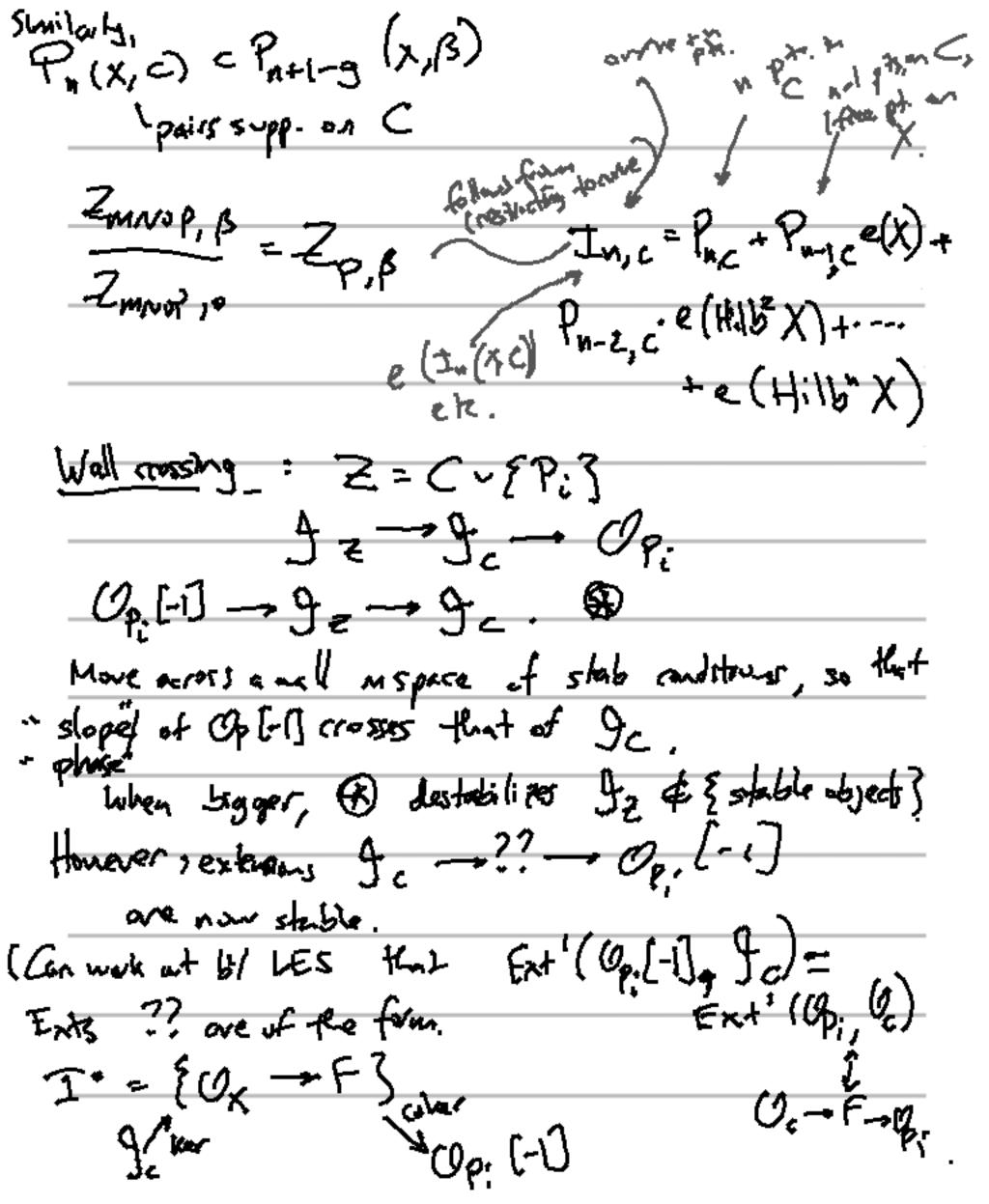


XB=(-1)dm M where M is smooth Depends only on the local analytic str. of M! For simplicity, ignore X8, signs, just work w/e (very someth),

E.g. MNOP — do def. throng not From. down this very sheaf Jz, but it sheaf Jz tow, detournent. Tobsz = Ext(9z, 9z) & see dul obsz = Ext(9z, 9z) & (CY) Stable park: def-theory not as a pair, but of the trivial determinant Z-ton & EDb(X) I'={Ox -> F} ED'(X) T\_P, (x,s) = Ext (I\*, I\*) } dval Work with aftered CM ourse CCX. 2(C)=1-9 In(x,c) = I1-9+11 (x, B) 



Estable objects } changes as we rees well
from $I_n(x,\beta) + P_n(x,\beta)$ .
From In(x, B) to Pu(x, B). Invariants change?
Model: Sheaves E which can become unstable er
cross a wall in Kähler cone
Shan A common of the E - is - is - is
Slope A mosses slope B.  but A, B so not down pose, remain stable on buth sides of wall.
Les lasth siles of wall.
=/ tom(A15) = 0 = (Nn- (15, A)_
So by Sore Dully, Ent 33 (A, B) = 0 etc.
So and y hope:
50 - 1 y hope: Ext'(A,B): 0 - B - F - A -0
Ext (B, A)=FA+ (A,B): 0-A-F-B-0
when we muss a wall, lose all extensions ( ) P(Ent 18A)
when we coss a wall, lose all extensions (D) P(Ext'(A, 8))  gain all extensions (2) P(Ext'(A, 8))
- 1/2 A) \ \2 (RA)
Difference = (K(B,A)
$= - \chi(A, B)$
So Difference in municipies cors wall is K(B,A) e(M) elmB)
Our case: A = Op. [-1] == spr.t-up, seems bable autos.  Our case: A = Op. [-1] B= Sc == stable

Our one: huch of stuges. 1 free pt. I, = P1, c+e(X) Let's see this using generally in case C smooth. O NP,c >> 2 = e(P') + Inc 1 to Pi, c See shat Inc = e(XXC)+2e(c) P. = e(c) II. = e(X) = P1(=) I ., c - Pic = e(x) General C, PEX = (P(Ext (Op, Oc)) e (P (Hom (Ic, Cp))) By Rian. Roch, hum (Ie, Up) -ext (Ic, Up)=1.

