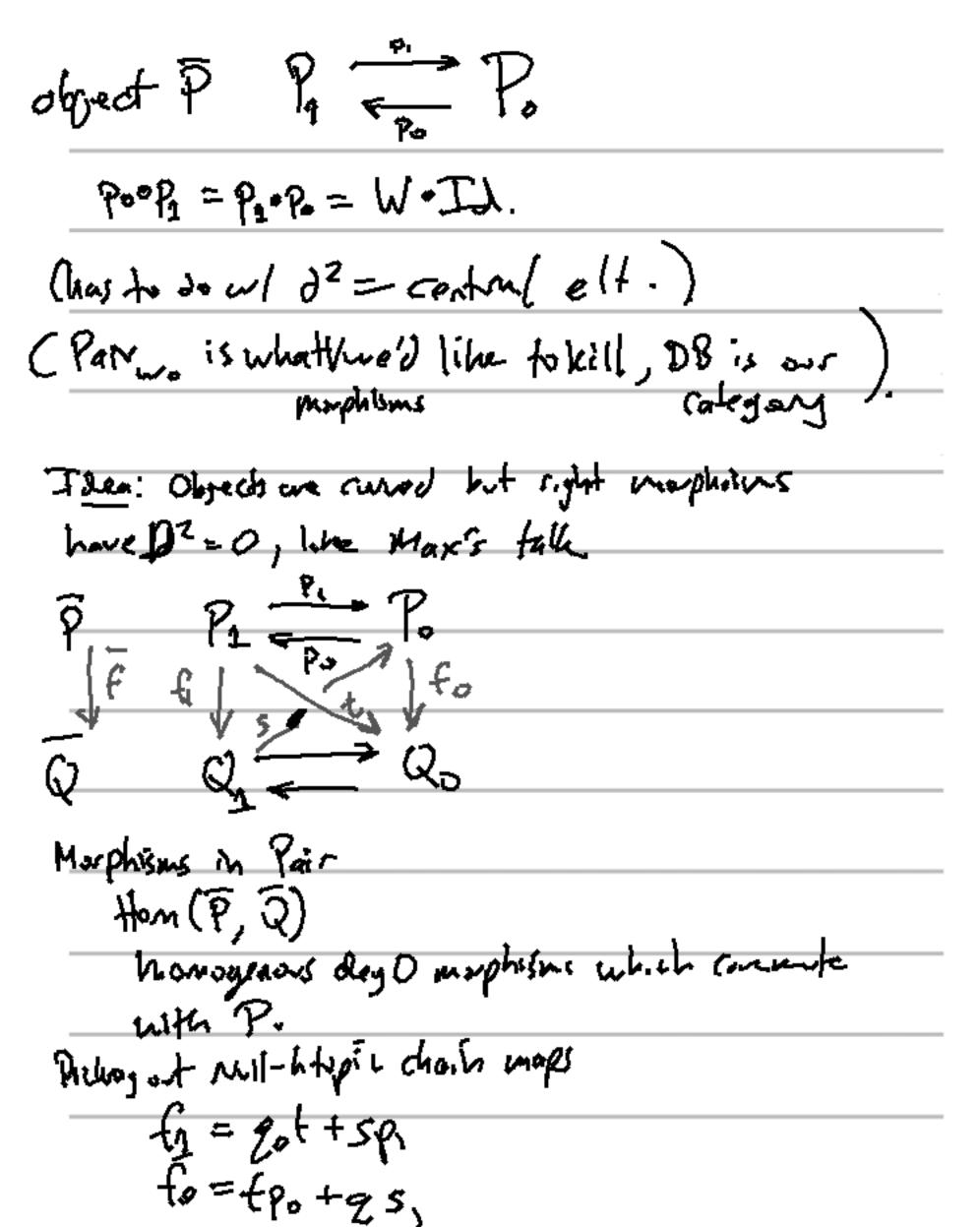
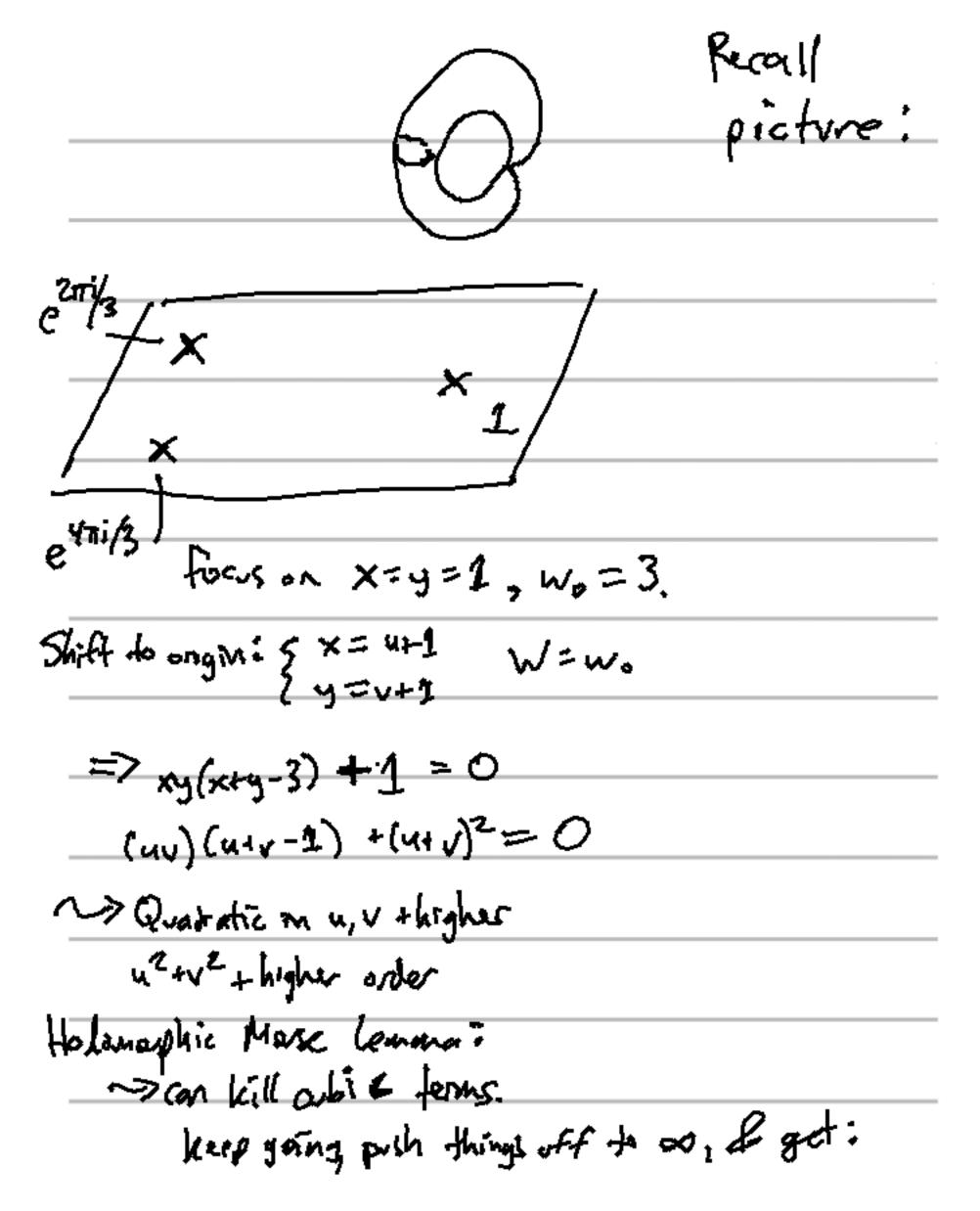
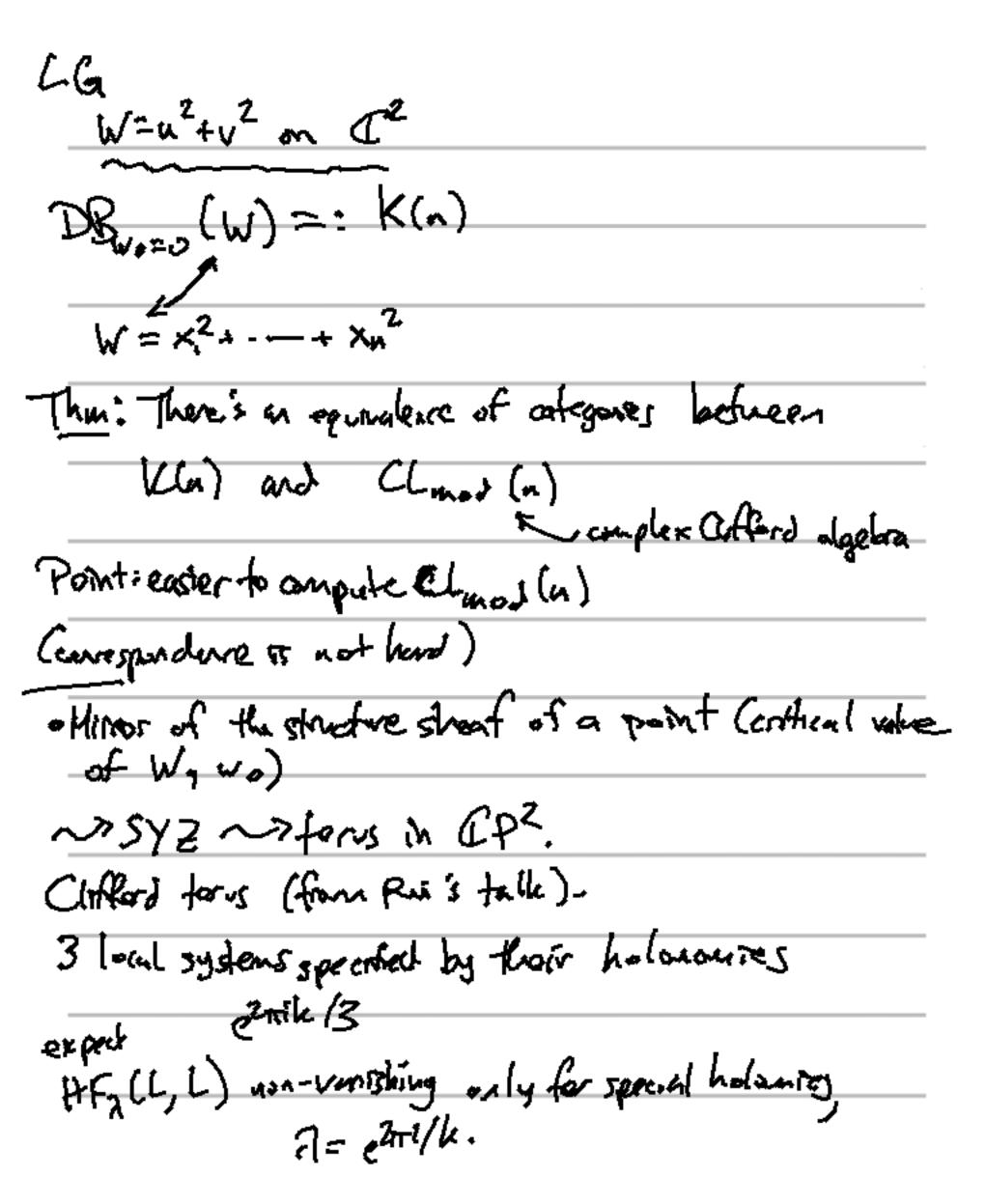
Talbot, Day 5 Talk 3: Richard Eager,
Matrix Factorizations & HMS
A-Model B-Model
depends on Kalermornia HMS depends on ex structure moduli
Fulc Do(Cokx) or MF(W)
<u> </u>
Nich is talk on Vanishing (yeles
DF (X,W) = 5 Db(con Fan. X)
FUL(Faro X)> ME(X,W)
Mothete autogray of matrix factorizations:
Parher's talk. C(X)
objects: bunded I - graded amplets
Murphisms: Regard as marphisms of Ox-mod
Murthisms: Kagard as marphyms of Cy-mod
DG H°(TWA) ~>Db((HX)
('(X).

Now we want to introduce a category
C(X, W, wo) LG model
11 X smooth affine space
DGW (W) Wholomaphic X->C
WOLE (WLOG W, = 0
work (, w LOG w, = 0 (critivalve of W)
Qbjeds:
Pairs of f.g. projective Ox-madules
$E = (E_1, E_0)$
Murphisms 74277 - goodered de Category
(Davi: Should it abjects have differentials? Yes.)
Hom(F, Q) = @ Hom(Pi, Qi)
Patry (V)
DBW (W) ~ Triangulated restagray
ρ 34 -η
December : felton (P,Q)
Df= g of - (-1) top
Poirw, (W)

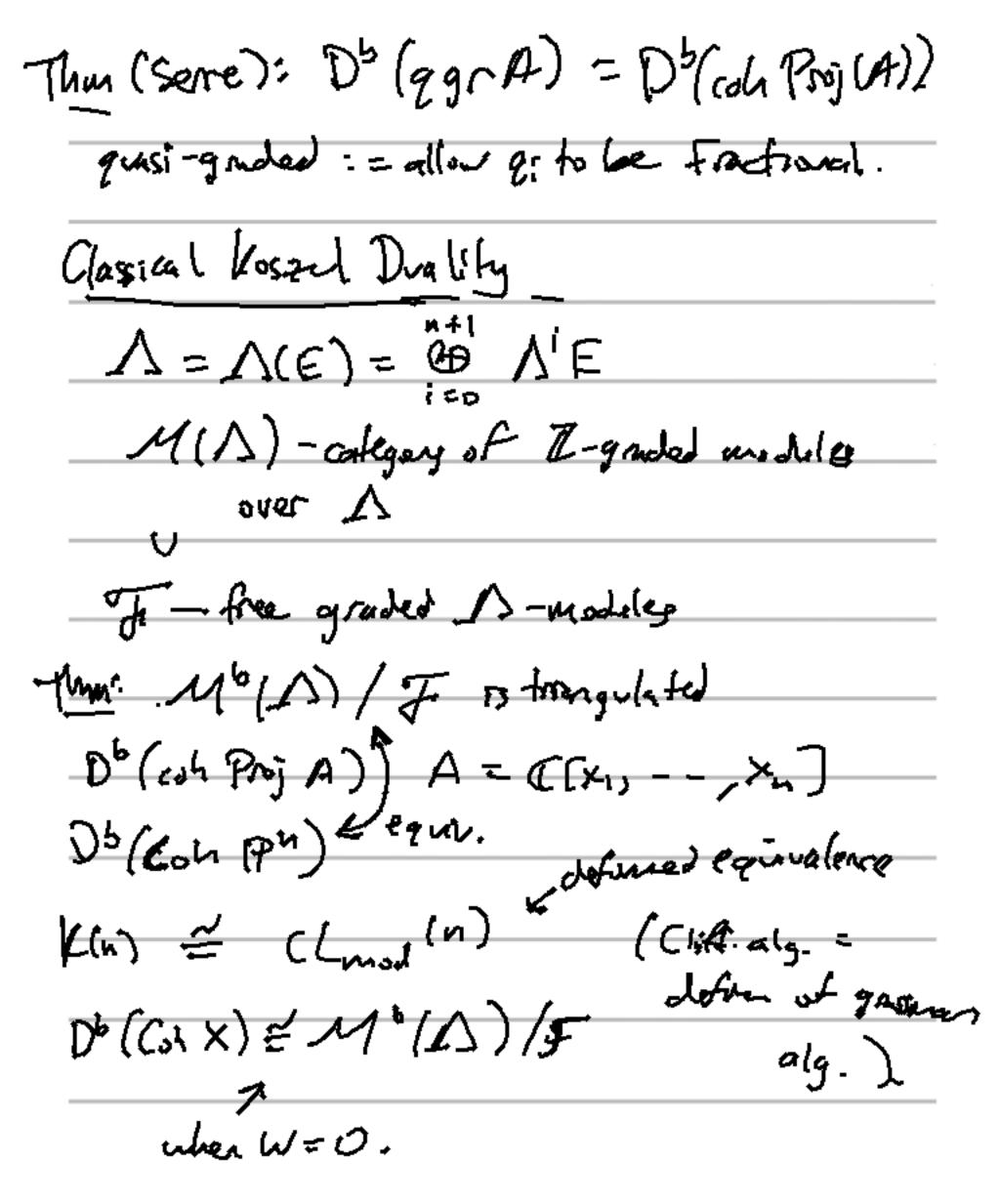


5 Harphisms in DBus (W)
Morphisms in Pair module null htopic
Irrongulated structure:
. Transation functor [1]
* Distinguished -tricogles sectify accorded
(we know this imas from a 26 cat. which 53
Just drimagulated).
Translation function:
- 7: P - P [1]
P = (P - P)
(P.)
$\widehat{P}[A] = (P_s = P_s)$
Note: [2] = Id function.
(ingeneral, if wo #0, have = (W-wo) Id)
Examples: (HMSfor CP2).
(PZ 4M5 (6 model (C")2905)
W=x+5+1





BONUST
Action of Cl(2, C) on HF.
Action of Cl(2,C) on HF. Stronger statement: HF(4L) = cl(2,C)
Zz coeffs, Zz-graded v.S.
Comment:
This is a deformation
Ω*(L) ≅ Λ*(V) ~2 diù
(50 defoughing to sk up to a (1) ffood algebra)
Grahed Mortriso Factorisations
If W quasi-homogenous Weildix)= e W(xi) for Y)GR
A = E A graded => varishing of Headov
A = E. A. graded => vanishing of Magler class. Other's: D'(gr-A) D'(gr-A) D'(gr pn)-A) I-gaded.
Octor: Doc(A) - D(Zgr-A) ~ ochogenal decomp



K(n) =	Chanso (a) is when
	W=x12+
lose lot or	internations when pressing
to ku) t	her Do ((oh), has to do w/
(مرم ارتحمه	, to bandary.
×2 ~>	me, ten
x; 3, x; 4 ~	> interction tem.
	back to free fluvy, no
	Complication