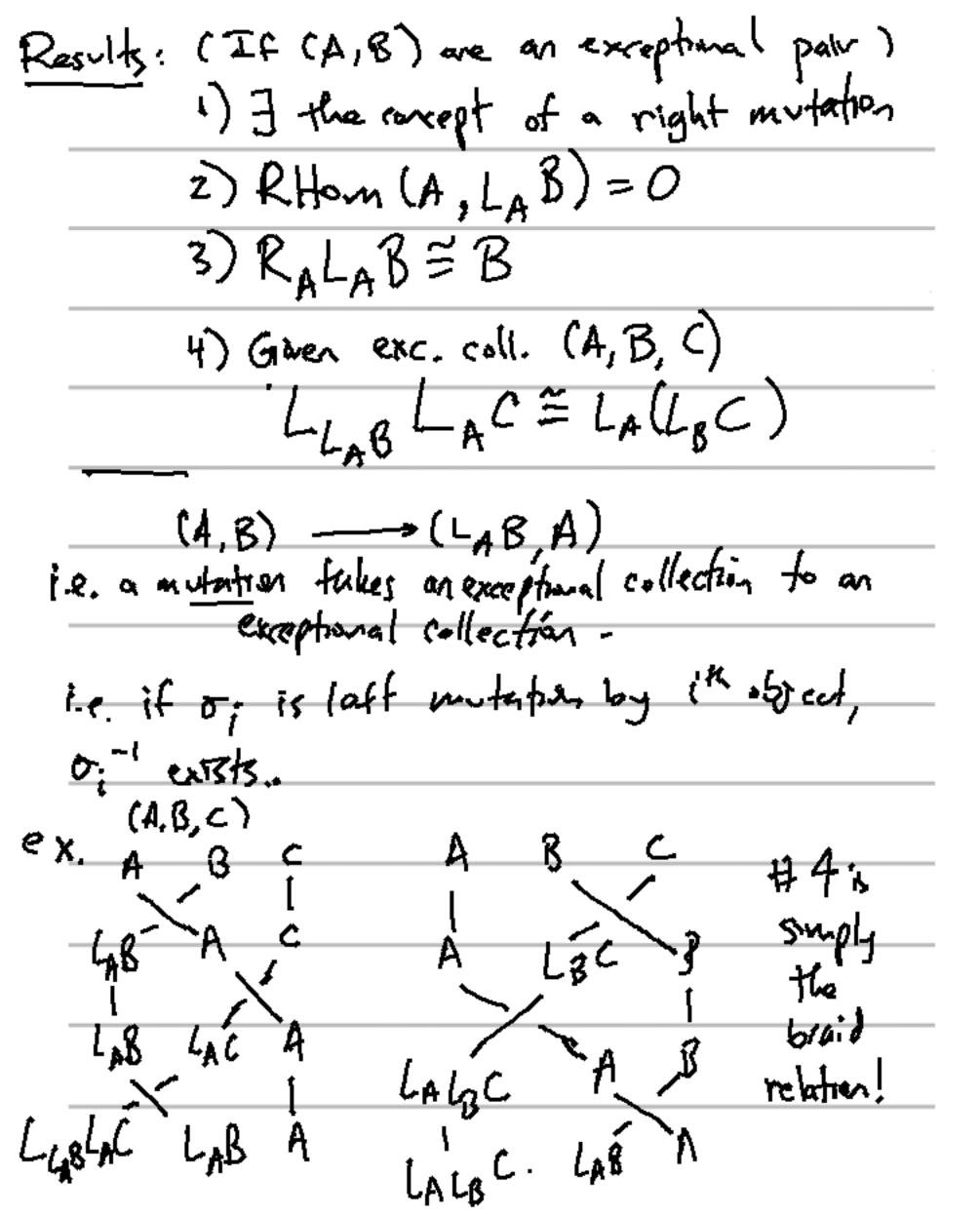
Day 4, Talk 1 · Parker, Exceptional Collections Ex: Db(P1) - der And cologny associated to Abelian rate Id: Db(P) -> Db(P') oquivalent to using PI ~ PI x PI

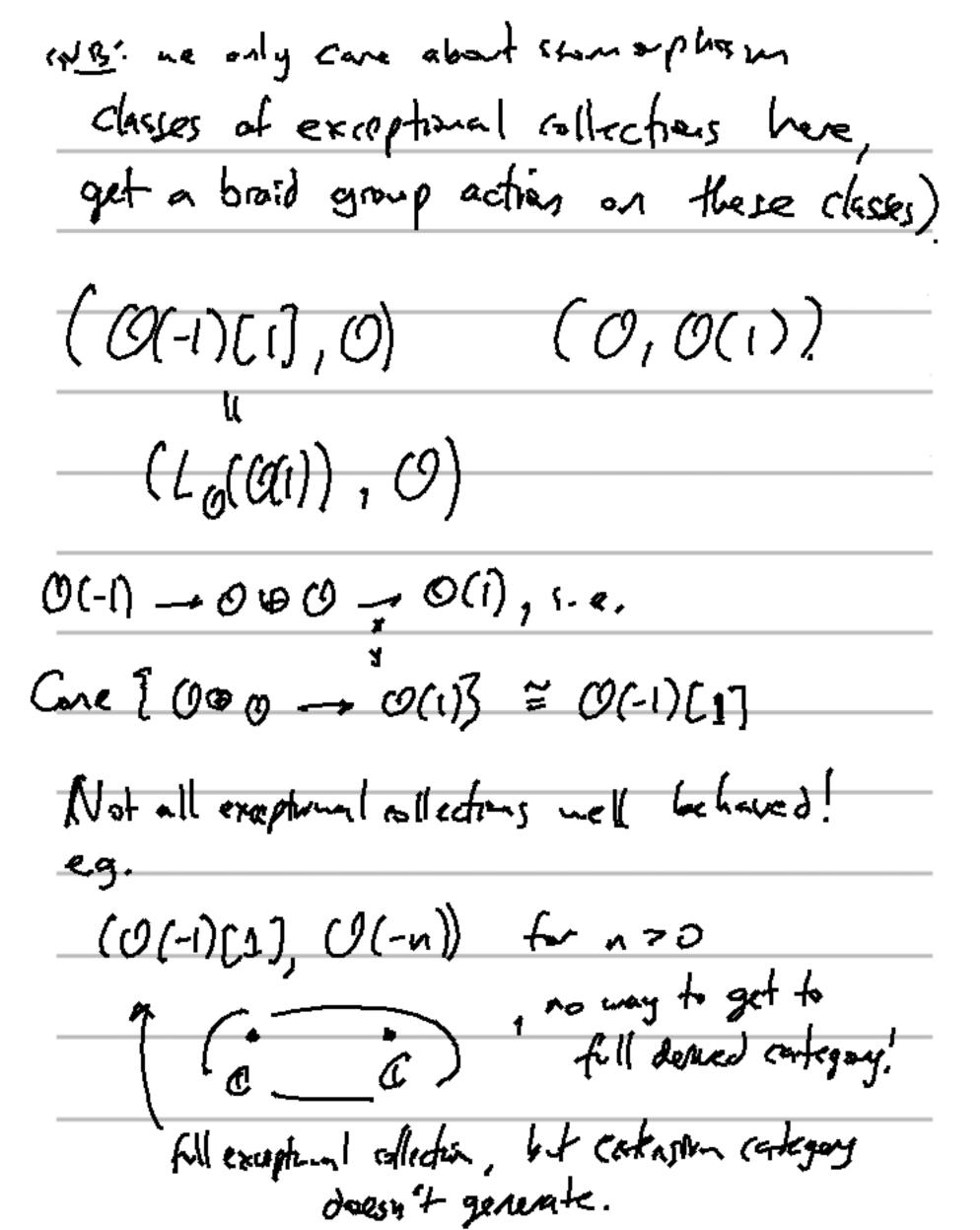
The count to set and of dension! II = RT2+ (U0 8 T, *-) G: O -> (1-1) FB (1-1) -- (1) -- (1) \$ G-1(5)= Rπz*(πz* O(-1) @π,*O(-1) = RTTZ *(TTZ*(TTZ*(C(-1) 607, *)F(-1)), 30 same more work... =R(F(-1)) & (9(-1) = RHom (8(1),F) & (9(-1)) 中岛(F)= RT(F) 的(OE)RHOM(O,F)的Opi

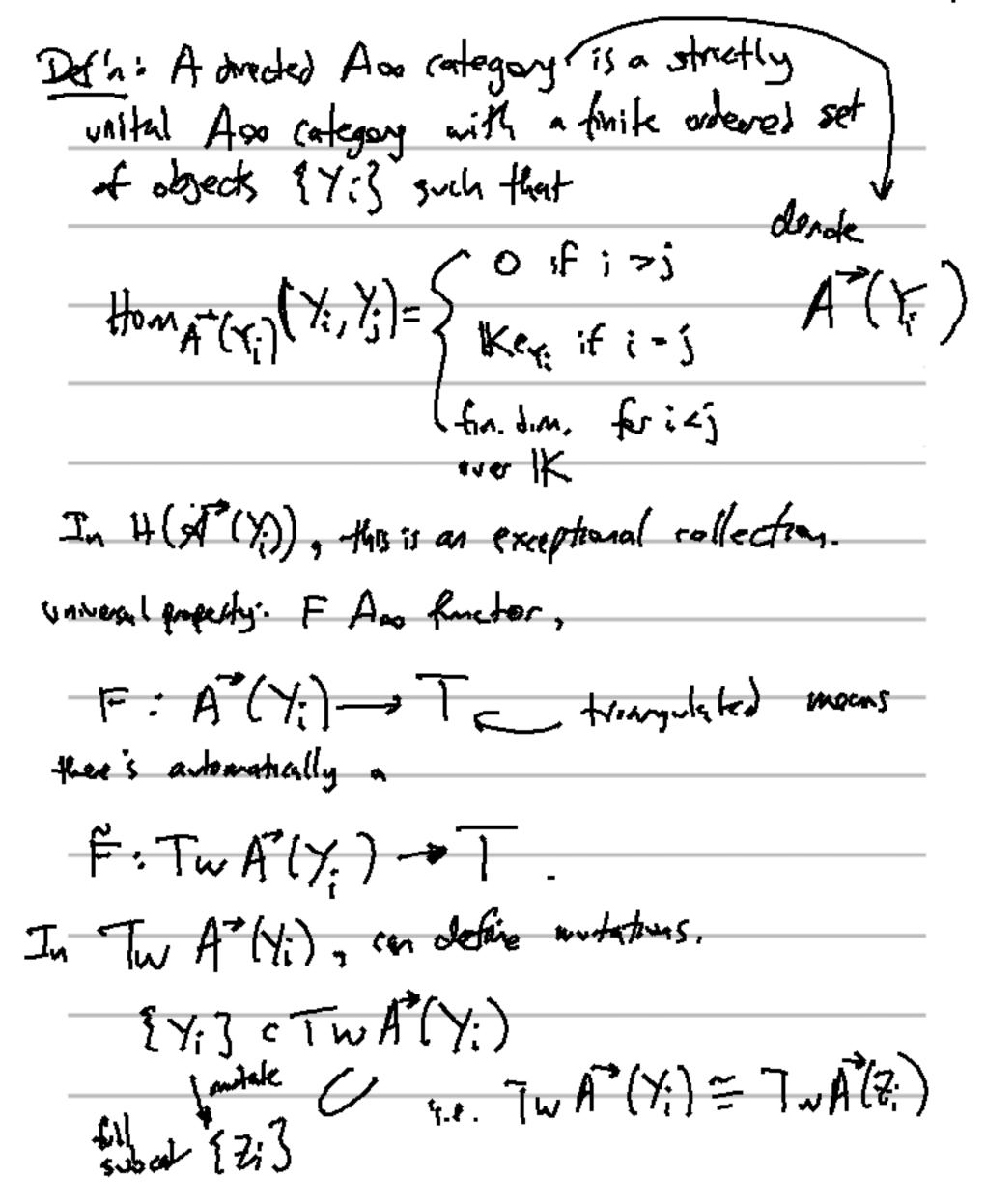
Namely,
$T\lambda = \underline{\mathcal{F}}_{\mathcal{G}}(F) =$
Cone (RHam (U(1),)=) & Up (+) -1 PHom (0,F) & U
If & = edition calgary of O, O(-1)[1]
Db(P1) = Db(A)
Ower picture:
OGD[1]
(Joslan Ramalform than gives us tossy sheaves an
the plane
Defin: An exceptraral allectron of a trunquiented
cost T consists of the following:
* I an andered (finite) set
[Y;]; (I) (O) (i = 5
S.t. RHom*(Y, Y;) = } k if i= 3 & k=0
\$ 0 if i=i, k =0
fin. din't wed-space
٥-المديدة دي

′.

Definition: An exceptional collection & Yi Jie I
is full if T(17,3) = T where
T(Y:) is the triangulated hull.
9-9. 90(-1)(1), 03: a fell exceptional collection of Db(P').
Ex: {Op, ,Op, (-1)} vs. {O(-1)[1], O}
Defin: left mulation of an object Y by an object X
Lx Y = Gae (Hom (x[-i], Y) ox [i] -ev > }
this is only on isomorphism class, but pack one, it doesn't matter.
(Concistive a mixed bornel & rokemel).
Def'n: A left motesten by the ith object on an
exceptional collection { >; } is the following collection:
Y. 7 Ying Y. Y Yu
Yo Yi Yi Yith Ya







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Set of	direct	e) [20 (a.	egores		
A	* (Y:) —>	A (Z	egoves		
gres	٧ş	a brois	a chu	1 m	J	