19 July laker 1 160 Elimer" E c-Perf (X) Dac (Ox-MI) = D(A) A= REN(E) This should be perf (A) X hit yell held Prop: Paf(x) = Perf(A) @ X-pup <->A-pup easy exercist. Def () A small of A = Pef (A & APP) (2) A mp- of A & Pet (K). it was for an extension to be a sould be a soulling failed D'och now-Than: X separated finite type (h, k-perfect)

Db(oh(X) = Perf(A). Db(bh(X)~ Pof(A), and A-smooth Pr: Identy per (AGAP) ~ Ob (XXX) but nee! to chance Some julizer confer as (Shotob) (KON DEPCIX dualiting amplex on Linguist pulceds (12 percet = 7 X has a smuch stat there only regular top hate types) sund to go to Xx X.

will st speak books if again Real, Do(X) = D(A) homotopy Cat K(Inj if X not smooth, Menert fun Dr (X) Contexts de ph De CP(X) Sunaine: Pet(X) ceffeety properties of X, 4+ Do (oh dussnit -Doloh gluggs smoth get when X homotopy finiteness (hfp) hostpurily fix prexists A dga/k. (1) And htp if Are homospically compact i-e. ho colon Hon (A, B;) ~ Hon (A, hocolon B;) suplicially exiched category, of homen httpy category of Igas croasonable to any contraintly on facilly gire rodal at (2) Bis Intendular is B=Kx, -7 X, 7, dx; 6 K<x1, -1xi-17 Ass life & have A -> B -> A f se celle B Holdg-alg

20 × 20 20 100 / Thur: (Teen) Ohfo => snoothness

(He for cellula, eary to restre) and insolved present order products 2) 5mooth + proper => hfp.

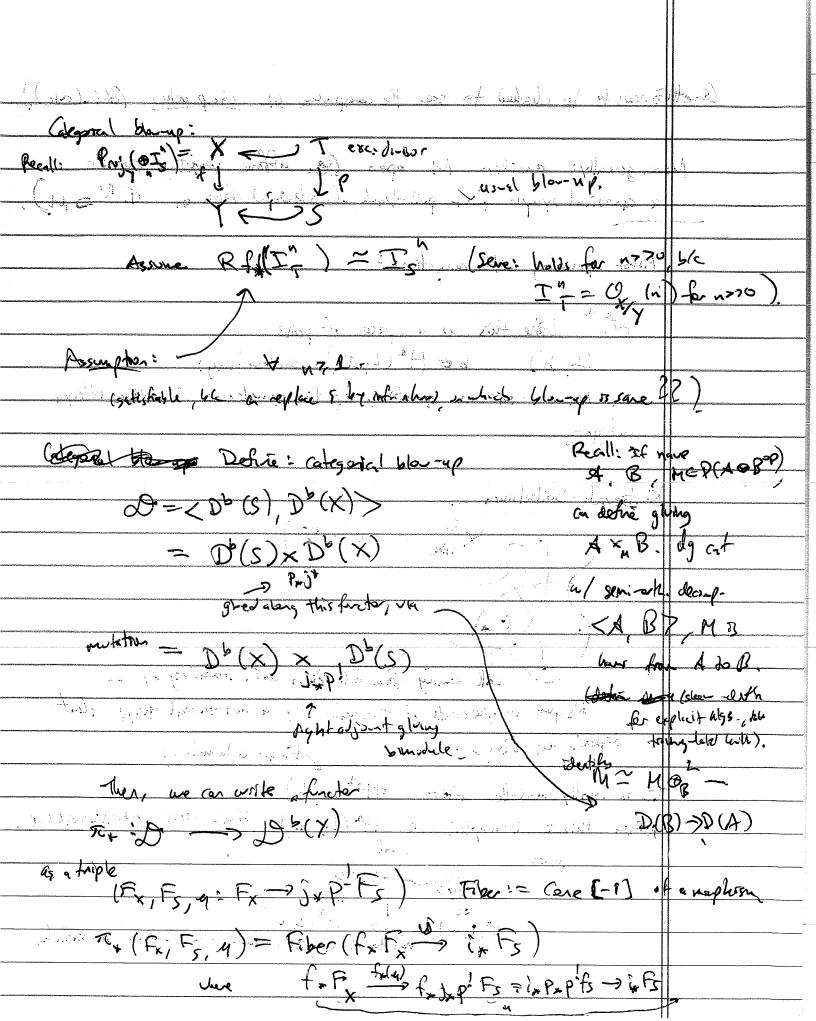
Requalent to a map between Refs, intermall models)

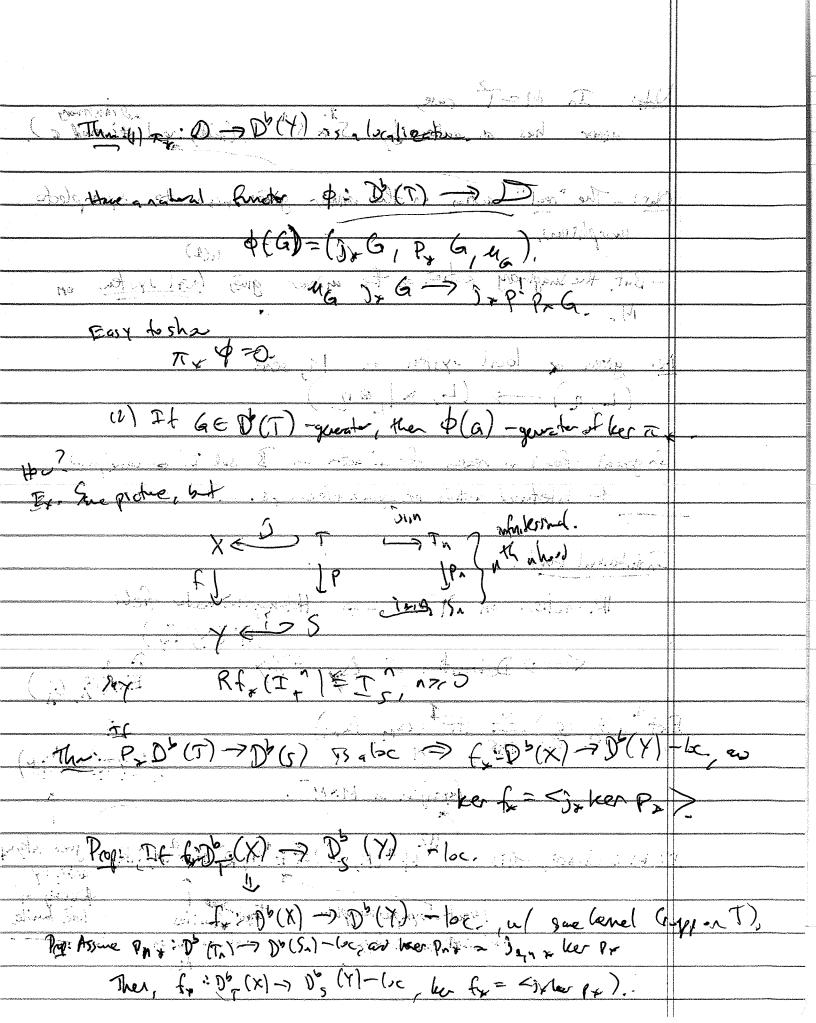
8) D(A) I D(A) Morta equin, A HPC A hope and and make Ho (dg - catu), where week eyon = 17 March er -) (when finish cell dy cat = path algebra . La que) Sure they ble quoted by one object quiter by one object. Ecob(c) Then (E, Toen?) after C dy cat which htp => C/E 75 htp 2) C= <A, B> semi-orthogonal glighted Mas (x, Y) = hom(x, Y) all home from A to B. Gipelmagnoloko A. B-hfp, Mc Perf(Ace B°P) => (-hfp. De: - A functo P. (-> T . VS & smooth compact Afraction if C 75 smoth and proper, and F is a localization (up to direct summarly) (eng street of T is a summer of some thing on Marge) and Kerl F) ger, by one disject as a toping-lated riteging Cos- Is This a smoth quetokista, the Total hop: AND TO THE WAY I

coxpect-any htp ogat his a small confitation) Marit If X ap. fale type / the dack = 0, flow D'Gh(X) has a smooth an packetion, we ada C => Db (ah (x) Castalian in $\langle \mathcal{D}_{(Y_1), -, \mathcal{D}_{(Y_m)}} \rangle$ all Yi are smoth b proper. (3) W & O(X), Hen -1 for UFOL(X,W) Here, C = < MFGG(YI,W)? If are smooth and it is proper (eight require cost proper) Motivipagi Cinj: TEX-> Y resent supporties, and REOX Ox Us Y has rational singularities), the Rt.: Db(X) -> Db(Y) Tratochization. In great, this remains open - (very had to control knowl of such a functor Expedel for MF osmell; MF (x, f*W) > MF (x, w) Uses cotegoral res of singularhés (Kenteur, Cut). Cox Y= Spec A, I Construct Cat.
Ob (CA) = Et, -, n), with ham(F,j) = (A/r fmix(5-1,3) Parties group (me 19 10 years continued in the

Consider A as a cat of are objecting Get: H* 2 PEACA) TO PEAT (CA) 100 (0 to (10) 5) and Db (CA) -> Do (A)

The first of the foregon If A is faile ty Pe/k, this is a tentication) (check explicit) benet questo by another sporter on other vetres It a myel Space b/chave (ile $A\omega$, $D^{\circ}(C_{A}) = \langle D^{\circ}(A/I), \dots, D^{\circ}(A/I) \rangle$ de it A/D or mate, get dedecaposition into De (smoth) S separted of first type /k Sheef of ideals I cos I" =0. then contact avec viged, page, 5-75 by shattyry this on tucks de smith of gibber of such DrGL(5) > < Dr (S), , , , Or (Sh (S.)) toglisme mery, vic futer is contained by +- shetre, diede atelias catary, and herrel Problem's snylasties of the reduced part.





Why? D'(X) = cdin D'(In)

D's(Y) = din D'(sn), 6 Now, reduced to problem of shoring each participate By whitefor:

There step:

Sillow D'(Tr) believeton D'(Tr) E Partent nother 2 D'Carib C D' Cari A. J. Valley TATE OF THE BOX 22 ij. 1989 St. Carlo