

| *************************************** | 8 b ⊂ CF(L) ⊗ A + Satisfying MC es'n ≥ m(b, -, b) = 0. |
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| The state and address of the state of the st | |
| * ************************************* | Explain: How to cook up various arous, & how to prove commutatively. |
| | Previous works: (+ Ma'a) |
| T-00-100-100-100-100-100-100-100-100-100 | There . Wehrhain-Woodward in case all I's monotone and embedded. |
| | · Lekelli- Lipyanskiy: same cax, another proof (wifig Y-dragrams) |
| | · Bottman webshari; attempt to remoe andthos. |
| | Why need & remove embedded? In general when composits, count avoid innested rategory. |
| | $(1) F(-\times_2 \times \times_2) \longrightarrow F(-\times_2 \times \times_3)$ $\times F(-\times_2 \times \times_3)$ |
| | given Liz C -Xi x X2 biz Lz3 C - Xz x X3 biz Lz3 C - Xz x X3 vs-cl wewstern composition biz how to got Also function? |
| | Step 1: Suppose Zi Ass rategory. They have |
| | Yoreda embedding & -> Func (EP, Ch) = E-mod. (filly faithful!) |
| | So, Nost, construct a bifunctor |
| | $F(-X_1 \times X_2) \longrightarrow Func(F(-X_2 \times X_3)) \xrightarrow{\times} Ch)$ $= F(-X_2 \times X_3)$ $= F(-X_1 \times X_3)$ |
| | $=$ $f(-X_1, X_2)$ |
| | $F(-x_2 \times x_3) \longrightarrow Ch$. |
| | |
| | $\mathcal{F}(-\frac{1}{3}\times \times 1)$ |

Step 2: Say have $X_{12} = (L_{12}, b_{12}) \in ob F(-X, \times X_2)$ $X_{23} = (L_{23}, b_{23}) \in ob F(-X_{2} \times X_{3})$ Thus, show $Conp(X_{12}, X_{23}) \in Func(-X_{1} \times X_{3}, Ch)$ To represent by (L_{13}, b_{13}) where L_{13} is $L_{12} \times_{2} L_{23}$, and b_{14} some (!) M(elt) which is shown to exist

Thus, get: Those, ge

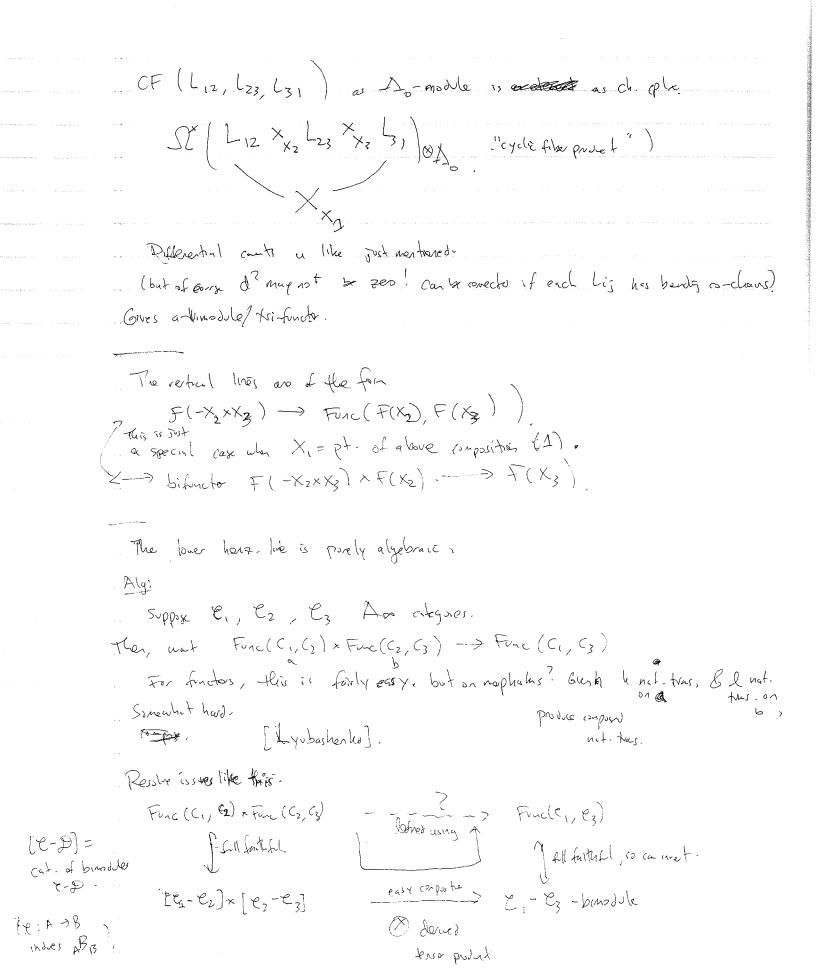
Onit step 2 for this talk (see last year's talks! himsbyscal alg. Lenna,).

Says biz comes for free nearly).

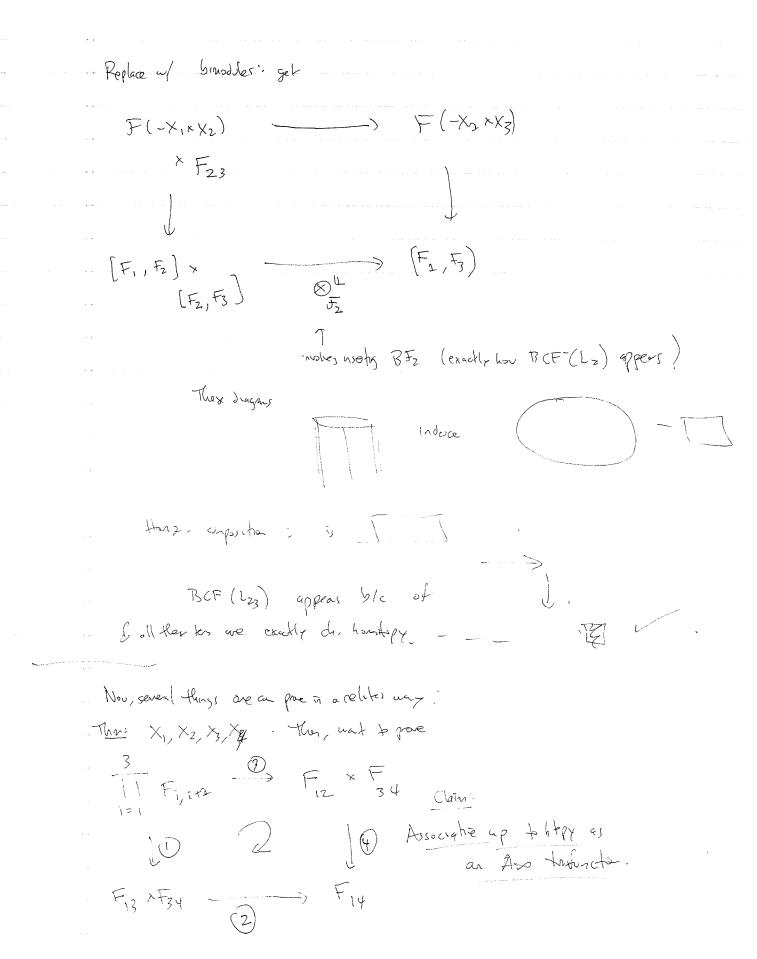
Back to skep 2: Historia:

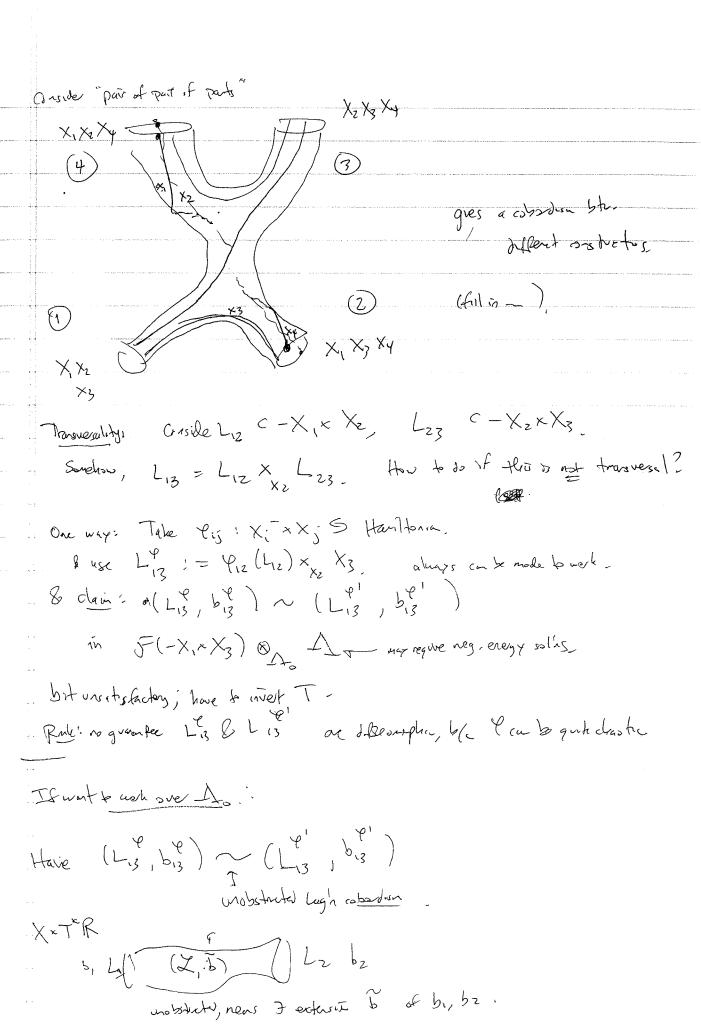
Given Lize -X x X2

Lizz c -X x X3



0: Given (onles In Am (am: @ dened know probat is an easy Am Sunda Back to Y dugram: Consider u; : St; -> X; I that. - U3 (LicXi, LijcXij:= XixXj) a/ In(u; lc;) c L; ad Im (uilcij, ujlcij) c Lij whood looks like giver BCF(Lz) @ BCF(Lz) @ BCF(Lz) B:= bar cplx. ®BCF(L12)@BCF(L23)@BCF(LB) & CF(L1, 1, 1, 2, L2) ⊗ CF(L2, L23, L3) ->(F(L, L13) coresp. + O boundary of world; spice >> that map is a chain nep.





| [Bran-Cornea]: prove) that I unobstacked doesn't drange Flore theory, |
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| (I where but for the astpy, gues by present |
| (Bran-Cornea): prove that I unabstracted doesn't drange Flore they, (b ul energy burds for the author, gues by presents for have (Shelulin tos)? ("C) ("C) |
| Delve: $d_{Hope}(c,c') = \inf\{\{z \mid A\}\}$ |
| where from (c,c') & A. (TE) isography CF (c',c') ge & A [T |
| fog ~ sd |
| Lenura: Say 4: X2 & Hein. 4 dH(Y, id) |
| $\Rightarrow d_{Hor}(\ell_{*}(L,b),(L,b)) \leq \varepsilon.$ |
| Pont: Carmale & as small as possible. |
| Fible: Say & Ax cat / 10. |
| Want: Ecology Cobject is completion of Ob(E) w.v.t-d.Hofer. maybegue? |

Pond: 12 resolve truspessed by