___ ac ~__ nac ~~ inacl addite cat Kn(C) = TTn+1 (BQC) Q: what does this hoe to do with anythy we've been falley about? ["A": well say somety about K. (C) vs. T. (BQC) Next methods to work w/ Kn(c)/s.
main method: localz-to-, / devissage Brown-arston Gullen S.S. nell show (under mild assurpt as - X myler wer (field) consider product on X (Zonislai t-p) Kn: U~~> Kn(U) H_{zor}(X, K_n) = CHⁿ(X) get relation of CHM(X) }

today: lacalyatia (dense de) "Recall" C Abelian catyon BC C full

Ab. school you, we say B is a Serve school (thick) it its closed under subabjects, quaterts certains i.e. - at B, b-a shahject (Momic) = beB . aeB, Amb epic => beB · a, CEB, or a sh - c-o exacting abeB. in this care, can defe a quotent catyon C/B with a fret c -> C/R Concretely. ab (C/B) = ob(C) Hom (a,b) = Homy (a',b) Hom(a, h) a' coa sich that a/a' & B

bob sil to eB

Humer (a,h) = lin Honer (a',b')

ands Ream. rg. B= short of R-mods
Tors(f) killed by come pow of 1. feR. 0 -> M'-- M -- M' -- D " t J u 2.(t, W, =0 tuwch, to the M=0 Claimi R-mad Turs(4) (2) Rp-mads
R-mad M,N Renal/Tuss(1) Hom (1) (M,N) 3 Hon R. (MI,NI)

Home (M', N') -> Home (M't, N't) 1.4... 1.4... 0.1 M, -> M, -> M, -> 0 1.4... 0.3 M, -> M, -> 0 0.4 M, -> 0 0.4 M, -> 0 if C, C Ab. c-ts, B < C Serve. an Fi C — E addite 21. Her 7! tonk C/B = 5 5.6. More generally, if X schere, UCX open Z=XIU Hen alziderlichtindx an Ox-and Mis Zifason & Mx is (dz)x trova all xe X Mx/0xa.

and then Dr-Mod/2+rs & Ou-mad
(Coh) Make of Man Ox-mad Supp M = {xxX | Mx + 0} ann Midel shel max defined as ann(M)(W)={siOx |sM=0} sopp M = Z (qua (M))

set thoretis $X = A_c$ G[x] $M = CL_{x^2}$ 5. Pp. M = (x) Ma ((x) = 0 Mechal Cexica ann (M) = (2) U xe(Cx) (xw) Qx-mad/Qx, supp on Z ~ Qxxz-mad 0 -> m2 -> 0,-md -> 0,-md -> 0

We'll show/ state: get amap BQ(Qual) -> BQ(Quad) al homefuly libr BQ (M2) Next yorkherd: " Devissage" => BQ(M2) hom. to BQ(02-ma) Main tooks we'll make use of Localization If C an Ab. cat, BCC Serve subcat

Hen BQC -> BQ(C/B) is a hom. hom. Film BQB.

Resolution. If C, C' exact cats CCC' full subcat sit. clased under extresors and supplies breach c'&C' 3 a resolution 0-> cn-cn-1- -> co-> c'->0

then BQC -BQC hom. equivalence. Nes 6 City of Ci feet as City of & one in ambient ah cost equiv. (somewhat hethr) Cincipalities

Cincipalities

Cincipalities

Probider & med if X is your randy then Kn(Coh(x)) ~ Kn(locfree(x)) Dévissage if BCA full sub-cart of Al. cat closed under subobjects, quaterts, limite produits. such that HMEA, 7 finte fittation O = Mo cM, C -- c Mn=M ~ifh Mi/Mine B => BGB -> BQA

hom equic

Con: Zux Mz= dz-kson coh
shes

[dz-nod) -> Mz

=> BQ(Oznod) => BQ(Mz)
eq.

eg. if M.l.g. Intrasion and owr R [I-power tession modes] > (R/I mad)

O-I'MCD'MC-- CIMCMEO

I'M I'M I-trem.