Bade to end of classofication: GIE CAST P' U Ga Ga (1b) (ao) (ao) G -> Ga gp hom/marphisms of schools injective on k=k points. U → V mep hetnen two opens in P' p' → P' x K(x)(g') <--- k[x)(q') propr {inj => svj. f. holds kly) assue k(y) = k(x) $\sum \frac{1}{f(T)}$ holdert. 1 k(x) if f has $y \ge 2$ untrdown an example look see at zer gl. K[x][g][T] +(x)(g') V' P' U

Reprostators & compd-les

Det a KEGT-comadle N is a k-v-spe N ml N => + [67 & N (1.

N ~ LLGJ6N

Jamid combes.

K670N -> F[6]0 F(0)6N Nac

's count des as a "caillety"

Gran a R-mal N, Irm Nº = Home(N, R) RS S(N) = tree my year by N as an R-showed. 2000 (52N) (53N) S'N = No ... on landy puth x, & - & x, ~ x_{o(1)}6 & x₍₁₁₎ your M/A ~> can constact a staf of mads (Spec A M this can be thought of as a functo from basic (alle) grens on A Spec Ap -> M(Spec Ap) and f-mod-k At mext > M(Spe No) on Ac modele. gren M/c gela hut hum (works if Mi) P k-aly ~ R-madrads M** 2M R _____ M(R)

mont a "solune arete la M" M() = Spec S'(M*) M(R) = Homping (So(Me), R) = Hem Kind (Mx, R) EM 7; = Homema (Mare, R) free to = Home-mod (Marp, P) = (MO_R) = M = R = MO_R RE A functual G-module was a Condr M: R - MUR) M(R) = M(k) @ R w | natral Gacton (i.e. a natitras landos GXM-9M) GLY XM(R) -> M(R) sit- each gres G(R) acts as outs of M(R)

Det Almbal Greep is and too (of of Such) G-Gln. Lastter Grep = G mad + heriz & M(E) Thate = (if MChild) fid. LCO-comadle N = MC/c> guen M ld visje/k & k(6) comable dube .4 as get actus G(B) CM(B) (fort. 6 mid) M= -> k(6) 6 M* c k[6] 0, 5° (M') ~ (3(M*) Rice: ALM) = Spec S'(M")

A(M)(P) = . . . = MOLP

Spec(KGT & SM*) - Spe S*M*

G X A(M) - A(M)

G(P) x M(P) - M(P)

G(P) x M(P) - M(P)

Goal: show that 6 able op schelk admite a faithfil fidial representation
Id kColiamod or
6-6ln
idas GC k[6] Ird Vck(6) Id. uspe ~164c
de l'67 is a lel67-comadée.
VSK67 shondle, J.d'e ~> !d. rep. ! G. K67-shonde. Grafi find a "by engh" G-stable alespe Subcomalles
Goal: land a "bij enoyh" G-stable askspe
- Remork of V, W sklot are subcommules - Remork of V, W sklot are subcommules - V+W is also a rubcommod
- also k[G] = a directed limit subspes of fid union of income subspes subspes
will show; if xe blod 3 Vax l.d. subcomed. Helpfely. ~ com.d. KG ~ klod & blod ~ blod ~ blod x ~ Svice xi
Key — France Fra
let v = 2×i>

xe <x:7 count