free lean or an object X. Comb spec: andegoriful polynomials

Rep (M2) -> Rep (GL(2))

For GL(2):

B = C

this rep involves det (.) Whis is not a M2 rep.

Example Heory of a two dim object.

Horn in to a "universe of molels"
bundle stimolels parametrized by the spectrum of Tz.

If To is initial thoughter this is a co-stant Todal (spectrum is trivial)

"Associated dector bundle" see: howotop thory

Combinatoral species in doctrine of Sym mon loc pres categorie. enrich over a sets

base: complex Dec. leads to your diagram

extra beliefs:

E = 0 ~ property intern I have into believen

hom (B,B)=0

gives full subertegory of your dragings P. A. two rows or less,

looking for cat of the till diagram reps of GL(2) but found

CL(2) < MZ reps of M2: affre algebraig Think of Vector bundles

vector bundles

over a line, like

ble mobius strip:

a bundle over

RP'.

Forsor for GL(2) is

a principle bundle for GL(2)

get associated vector

bundle from reps of

GL(2).

This is a tensor funder

T, or T2.

Janes Molon (2) 21/8/19 Example over C: MAN SAMONES POR PORTUGAL theory To of a quantity $g: \mathbb{C} \longrightarrow \mathbb{C}$ believez: hom(CB) -shom(CB) Modules of polynomials in one variable "q" a "classical model" of Tz is just a complex humber Decher space (Syntactic categospis (Comodules of co- Hopf alegators for alg group GL(2) (Ester Stone) a co-plux berser function $T_1 \rightarrow T_2$ is "a bundle of models over the spectrum of Tz"
ie. two discharace budles

over be offin line

Jahos Nolm

3 51/8/18

Models St T, have non drivial cioto-orphisms stacks point (s) Molls of Tz have only points non-stacky. (For projective line ~e use has veriables or coordinate 9 s 2⁻¹

Blownp in algebraic geometry involves anomalous Fibres.

see also: rehormalization Sroob)

and alous symptom ad cridical point

Idea: Hong of

= 0

Sermionic objects of dim < 2.

Idea H=0 (131) di bosonie-ferminie.

Example Ti: Henry of objects din < 2 rep(M2) = co-dules of com bialgoon for Mz Tz is es above.

lookfora model T, DT2

eg. free module on a, b: (Gabi

(G={poly over q})

drivial 2-di declar buelle.

eg: any quodient module of above module:

(a+b)(q-1)(q-2)(q-3)

13 CG (5,6) = 0

inderduirers bed, dersons of your

generic fibres are 1-dim but dibres over 9=1,33 are Lun rank: 2-dim

hon-locally trivial rector hundle guasi coherent theader over