7 James Dolang 15/7/18 LOR \sigma 1 $ROL \cong 1 \in End(1)$ Vector space module field Comminy Spectron Spec = one point Line object Live bundle over spectrons of a ring 4) a D-dimensional object (smon's idea: take the trace?) An object V and inverse L: L& Ext V=1 Enrich over Vect some get Exteria povers. Could also patrado have ney: 1->1 & neg
plus: 1->1+1 +idy
= zero zero: 100 and apply belief method to effectively relative , over abelia groups

(See also 3 12/7/19 for similar example)

Belief method worky in Locally presetable categories. These herse good adjoint function Locally presentable categories = M smally sketched Within doctrine of low prest syn mon List of examples of deorys 1) Evler object ENFE-DE 2) An adjunction L-R counit LOR ->1 unit 1 -> LOR 3) An adjoich with counit Junit being isos. = An invertible object. like a line object, in algebraic georeta or a 1-dim rector space. (N=) & has solution n=-1, is this an Ever object? Live object us. andi-live object

Super algebras

网络路通

5) over C-Vect

theory of Ext V = | form " relades do SL(2).

(the secret of mathematics) the category of believers is the

(adegon of reps of 5L(2) the believer Vio the

haboral repr. VX=V

Hom this tensor cat into

out a two dir vector licks

bulle - value for -.

Eg. hom this category indo can't of dechar.

bundles over a (fixed)

complex manifold to pick ord a 2 di vecter budle

w atea form. "post-

This is the ATanna kian philosophy

His rep entegory is the walking 2-1: vector space Abject - oriented area form. The generic model of the theory \$ is V, it lives in the walking model of the theory

Project: use belief hedrod to recover rep (BL(2)).

Schur - functors: Here are living structure types.

Use Young diagrams.

Rep (G).

1 James Wolan one point much symmetry lots of points
modifical synchry
Algebraic Algebrai. Varietie 3 Incks 7) change the doctrie: (Sio kudeit do pose s Gio kudeit do pose s Indepreble are left adjoints that presende de pos sonuchure. ey. Cadegay of actions of a group.

eg. bodhar logic.

dle associated vector

bundle constructi

input: A principle G-bundle

over a "space" X

A reprof Gr

output: de associated vector budle

which is a vector

bundle over N.

This is describing how the syntactic category of the fless of a 6-torsor (the -alking G-torsor) when you how this not category of vector bundles over X you get a 6-torsor.

5) an object V

\$ L@ Ext² V = 1

\$ V@V*

is constrained

V*@V to kill off

the super pant

Sives Rep(GL(2)). "bosonic"