Dapromaki - note we get intertwines from \$150(n) - so(n)

which gives us:

2 d:So(n) - so(n)

1 s.s. = 7 F × s Rh ~ F × id Rh ~ TM il:50(4)-250(4) Elifford bolls & spinor fields -let ((M) = [(Tim) & C vodl of algebra F X (AR")

Esik

E(Trh) -(((n)) = End ((Zx))

Fxy (2m)

F ((n))

- fibrewise multiplication [esa].[ess] = [e, y(n)s] - teformulate in terms of modules.

- $\Gamma(C(r))$ is an algebra and ∇ defines left action $\Gamma(C(r)) \times \Gamma(2) - r(2)$ - we also insist on M(Z) being a

Co(M)-module on the right

-after completion we have $\Gamma_0(E)$ a $\Gamma_s(K(M)) - C_0(M) - bimodule$ and $\Gamma_0(C(M))$ and $C_0(M)$ are strongly Morita equivalent

Obs. I s.s.
$$\iff$$
 $\Gamma(((n))^{hor} e(n)$

Digression on Sense-Swan

- Mapt, 6 > M finite re voll.

=> $\Gamma^{\infty}(e)$ is timegen proj module over $C^{\infty}(M)=:A$

(finite)

-we construct a projector

Lings

- let 2 Majstopen covering of M, 2 faccomps.

fx20, supptich, 2 f2 = 1 "part of unity"

- write sections as $S(N_{2} = 2, 6) \times Sa_{3}$

and let $S_{k} := S$ fact in the

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so $S_{k} \in C^{\infty}(M)$

-> we got a map $\Gamma(e) \stackrel{k}{\to} A$

of A - modules

- define $H: A^{OSN} \to \Gamma(e)$
 $t = St_{k} \mapsto f_{k} := S \text{ yapt}_{p} t_{p}$

- check: $f_{k} := S \text{ yapt}_{p} t_{p} t_{p}$

- $S_{k} := S \text{ yapt}_{p} t_{p} t_{p} t_{p}$

- $S_{k} := S \text{ yapt}_{p} t_{p} t_{p} t_{p}$

so truly tre (Elus)

1/2 (4/2 5/3) -compute 7(ok(s) | ux = b2 2 9ds + p fp 3p = 3 x 6 2 · 1 = S => Hok = (dr(e) -for P=KoJ(we get

p2=KoJ(o)

p2=KoJ(o)=p - can be shown to be projection => T(B) 2 P A D > N -explicitly > Paissj=fd (Yas)= fB 6A, pe Matrula) - vice-versa let $\mathcal{E} = pA^{N}$ where $p = p^{2} \in Mat_{N}(A) \simeq C^{\infty}(h_{S} Mat_{N}(C))$ and Ex:= E/Kerevx = p(x) (" -> p(x) = trop e (m, IN) locally constant -so du Bx loc. constant -we need to see &:= If &x 15 (oc. torv. -this is basically automatic - pick ens - sene tx & (N let 5, - , su sect n's of E s.t. S; (x) = e; itis - s din Ex , collections of KxN matrices with a txk minor with det to (??)

so we can define frivialisations

The (Seste-Swan) I voll of fin. the

m

(=> finite proj modules over & (r). Spin Coru

18 JT

So 22 PU = U (U(1).11

Spin = F

- gives us Spin - structures

4 J