Prop L((r) ~ T(R) 19) ⊗ R C & C Lalys. L(R) 10,9+1) ~ L(R) 19 & L(R') 1) L(R) 10,9 ~ L(R) 10,9 ~ L(R') 1) L(R) 10,9 ~ L(R) 90 P+3)

For 2nd 150n,

{ 9,89,42,..., 2p89,52, 182,

2p+,899,52, ..., 2p+q82,52, 182,

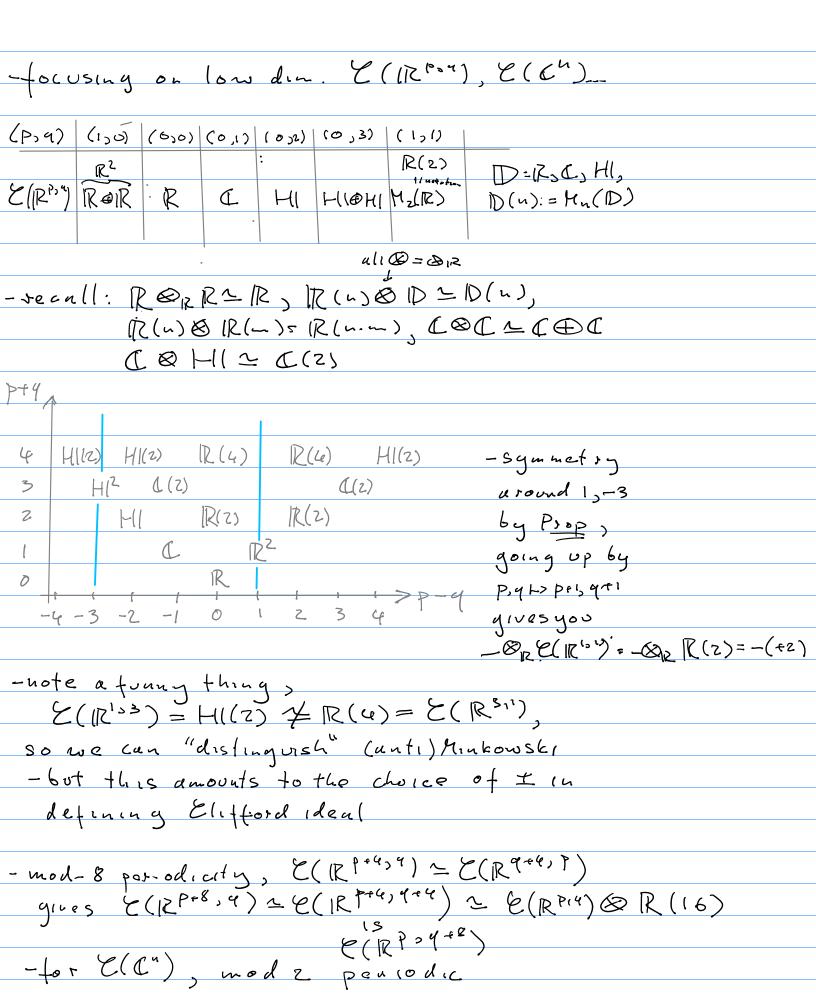
Since (9,52)² = 2,525,52 = -2,525,2, = +1

(serenber 2,651,52² = -1), we get the claim

35d = { Eqe2 Eye() -) Eqepe (Eper) Eye()

{ (Eqe2 Eye() -) Eqepe (Eper) Eye()

Of cooise, we used to check that the dimensions of both sides add up.



let Volome evenent w:= E, ... En - w (anti) commutes with veV if n (even) odd. Prop The center of E(U) is Z(E(U))= SIK OKW for n gold -w2= (-)(p-4)(p-4-1)/2 = 5+1 + p-4=50,1 mod4 -means A = E(IRP) 15 @ of 2 simple alas (II eigensp. of w) if p-y= 4 mod 4 & otherwise simple. A= 1700 t (170) Diz t(2) - E(4") is & D of 2 simple when us {odd simple $w = (-i)^m \{ (-i)^m \{ (-i)^m \{ (-i)^m \} \} \}$ - E(V) 15 Zz graded under main involution ans a, vins-v antiauton, so sends evens to evens, changes squofodd Et(V) = ±1 eigensp. of main invol. -cun be shown: E+(RP,9) = E(RP,9-1), take { 2, 2p.4) -, 2p.2p.4, 2p.4, -, 2p.4, -, 2p.4, -, 2p.4, -- E+ (RP.9) 15 & Dot 2 simple 1+ p-9=8 1 mod 4

E- (IR 9.7) = & (IR 9, P-1)

- if we use graded tensor product,

ABB, (aBb)(a'86') = (-)(a'161 (aa'8) bb')

=> Y(1R1734)~ Y(1R1,0) & Y(1R0,1) & Y

=> & (1 (1) = L (1) =

Spin groups

 $\mathcal{E}^{*}(V) := \{ \alpha \in \mathcal{E}(V) \mid \exists \alpha^{-1} \}$

Det. Twisted adjoint rep. of E*(V) on E(V), 8: E*(V) -> E(V), a -> E(u),

S(a) bi= a ba-1 to, any 6 & C(V)

Prop Kerssk*

Pf. ab=ba +b (=> (u+-a-)b=b(a++a_) +b.

Take b=1=> a==0, So u+b=ba+ +b

(=> a ∈ Z ∩ (e+)+= k+ since we
have even dim, □