```
claim: We have an equivalence of S-algebras
             Hr. (BP22) - S[4] ~ S[4] ~ HZp) , Ex
  Proof: 52pi-2 ___ HF BP<2> induces map of S-algabras
                                   STVIJ - HILBPCZS
                            HEER _ HIGBPERS is a map of s-algabras
comm.
       SCUITS SCUZIS HRED -> HTGBPCZJ & HTGBPCZJ & HTGBPCZJ & HTGBPCZJ
                                                                                                                                                                  Em map,
Vecause HTABPEZZ 15 Em
 The map is an equivalence
 We get THI (HTBPC25) = THH (SEWJASCUZJA HZG) = THH (SEWJASCUZJ ATHH (HZG))

A spectra CA Spectra
               THH(SEVIZSEVE) / HRGD / THH(HRGD) = THH(SEVIZ) / HRGD) / THH(HRGD)

LTAN (SEVIZ) / HRGD / HRGD)

LTAN (SEVIZ) / HRGD)
                 = That Hazor (HT, BPCZ) , THH (HZOr) C- has lamatopy groups to the character groups are the char
                                                                                                                                             We note that the equivalence is THH(HRen)-Inear
                                                                     compadible with the unit HT BP<2> _____ Thil (HT BP<2>)
                                                                                                                                                                                                         (The Rest )
                                                                                                                                                                                                                                       (अर्ध)पक्ष 💇
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and compatible with the map

THH(HILBPCZS) ---> THH HZ(O) (HILBPCZS) 51

(42,00) HHZ ~ (<5>4 HZ HAT

We denote the agrivationce by D.

Let or, be the class in THH, (HT, BP425) that is mapped to ov. under ϕ

We got an Ron-algabra map

P: K. 17, BPC25 @ E(ov, ov2) @ THU, (Zp) -> THU, (HI, BPC2>)
Zero Zero (1 Quelieve that we (I welieve that we need

We claim that f is an equivalence

PC3 Rene, no that 2 is invertible and Ezem (avyrous) is the

free graded-comm. الكري - ماموددم)

We have \$000 Vy Vz Vz

Vi V2 avy | Vi v2 avy + something in the Remail of THHE BPCES) P-> THHE BPCES)

Wi V2 avy - THHE (Reps) P-> THHE BPCES)

Wi V2 avz + something in the Remail of P

My Ny or ovy - Why ay or + manething in the hernel of p Note that larner of p is senerated as alrewern group by him on Er are a a (THI(RKN)) of positive degree

We get by induction on the degree that all the classes

N'12 or 100 are are in the image of \$0 g

Hence \$\text{Pof}\$ is surjective.

Hence \$\text{Pof}\$ is surjective.

We have a whort exact sequence of THH(Zp)_2-modules

O \rightarrow her \$\text{Pof}\$ \rightarrow \text{Rightarrow} \text{OE}_{\text{Qui}_1,0\text{V}_2}\text{DTHH}_{\text{Q}}(HZ_0) \rightarrow \text{THH}_{\text{Q}}(HZ_0)) \rightarrow \text{THH}_{\text{Q}}(HZ_0) \rightarrow \text{