(Open) Schulent alls: (v,,... va) RREF: [(*** O))

mpivot ((... O))

diadin of pivoto of couple numbers To get a actual CW-de compersion: we need closed (compact) cells DN - BU(n)

SN-1 - BU(n)

N-1

Tall-ding map Variant of RREF: UREF (-|; [4] | P)) private pa e R>0 cour au orthonormal.

Edmidt process => UREF also unque Co PREF

UREF alls extend properly to the hounday. The year we get for closed well: $0 < k_1 < \cdots < k_n$ Data: vi a D2ki all orthogonal (using enhalting (ki \subsection (b)) hith coordinate IR >0 In detail: Millon-Steleff Hented dule file boundles, but files bundle over a dish (contactible personnent pur) are times. Now we know that the (co) homology H" (DU(n)) has the cank of the number of Young diagrams with N cells = # of symmetre monomists in a rawhles of degree N. How do we prove that HN(BU(11) = HN(BU(1) x .. *BU(1))2N ? Bu(1) × · · · × BU(1) - BU(~) re could just vad if of on alls Bu(1) = C poo

The method to treat this: Schulech calculus. The method to treat this: Schulech calculus. The case of Glm (C): Flag rowerfires {(V, c... c V,) | Vector subgress of CM dim V, = k,} The case we are intensted in: X = d(V, c... < V,) | rector interpret of C Doo Then X is a Sahashed nevety, so it also has Schuhed cells: remand of RREF how with y v. same as for Bula), hul priots are permited Low is weather of the > In the original RREF, we climinete the number above a prisol. In the new versue, this only occurs for previous pivot to the wight

In the original RREK, we climinate the numbers above a prison.

In the new verient, this only occurs for previous private to the wight of the given pivol. So we have a cell may X -> BU(m) but the corresponding all in X has a higher dimension except who the X-pivol are already ordered wight to left. But allow X are generators of (6) homology of X, so (H, X) = +1, (046)) dealer => columnology.

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So to way, we have proved: Ht (BU(n); Z) = Ht (CPS) = Z)
                                                                                                                                                                                                                                                                                             = 2 [c<sub>11</sub>...c<sub>m</sub>] 2 [z<sub>11</sub>...z<sub>m</sub>]<sup>E</sup>m
                                                                                                                                                                                                                                                                                                                                69: 6. (21, ... 2)
       Analogousty, H'(BO(a); 2/2) = H'((RPD)"; 2/2) = 1/2 [t,...ta] (a
Formulas for C_k (f \oplus 1), W_k (f \oplus 2)

The complete of the properties of the pro
                                                                                                                                                                                                                                                        = 2/2 (w,,...w.)
              Zyny. Zyn Wanthe Coupler hundle und burdle
Zyny. Zyny. Zyny.
                                    \sigma_{k} = \sum_{i \neq j \neq k} \sigma_{i} \cdot \sigma_{j} \cdot \sigma_{k} \cdot \sigma_{k} \cdot \sigma_{k} \cdot \sigma_{j} = \sum_{i \neq j \neq k} c_{i}(\xi) c_{i-1}(\eta)
\omega_{k}(\xi) = \sum_{i \neq j \neq k} c_{i}(\xi) c_{i-1}(\eta)
\omega_{k}(\xi) = \sum_{i \neq j \neq k} c_{i}(\xi) c_{i-1}(\eta)
\omega_{k}(\xi) = \sum_{i \neq j \neq k} c_{i}(\xi) c_{i-1}(\eta)
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Application: Recall the Whoy immers theren:

trey smooth (compact) manifold 11 of him. w>1

has as inserved = R20-1.

(Immers Rp2 < R3 1> called

the Boy metace)

Rp2 cannot be simmersed into IRPN for N < 2-1.

Stiefel-Whitney classes