Example (14.22) (Cohomology of the complex projective space).	Spec. Seq. of Fiber hundle Example
Regard Sintl = { (20,, Zn)	-P'1.
Let S'act on S'nt by 7.(30, -, Zn) = (73, -, 72n).	
The quocient of South by this action (i.e. (30, 7, 31) ~ (30, 7, 71)	(Zo,, Zn), for
is accuelly the complex projective space CP?	some $7 \in S'$).
With this, we have a circle bumble:	
S' -> S' assume now the fact (see (17.4)):	
CP" is simply connected.	
Thus, Epil = HP(CP") & H2(S').	
-: $H^{K}(S^{i}) = \{ R, K=0,1 \}$. Ez has nonzero terms only on oth ano	l 1st row.
Moreoner, since dim (Cp") = 2n, HK(Cp") = 0, YKZZn+1.	
=) Ez =0, y p>zn+1.	
$T_1 \longrightarrow P_2q$	orak oraso
We now reserved tempority on CP2. (The same argument would be a	ppliceble for (P
Then	L1 *(C1) 10015
Then Ez = RABCDO Why the two rows are iso. is from [In fact, due to this, the rows of to H*(CP")).	are iso.
d3=0 since it moves down for two rows. =) d4=d5=d5=d6==0.	
Mariana	
By the convergence of this spectral seq. (i.e. converging to the total $E_{20} = H^*(S^{2nt1}) = H^*(S^5)$.	cohomology),
(=E) in Es	
TI TILL TIN TO THE TOWN TO THE TEMPOR TENO IN TE	
Thus, the only possibility for Es is Therefore, dz: 0 -> A, IR-> B, 1	4-1C, B-1D,
(since these terms become zero in	E3).
Thus, the only possibility for E_3 is Therefore, $d_2: 0 \rightarrow A$, $IR \rightarrow B$,	

Spee. Seq. of

Fiber bundle Example

-P2

Ez=HP(CP2)@H2(S'):.HP(CP2)={IR, P=0,2,4

The same argument can be applied to OP and we'll have

HK(CP") = { IR, K=0,2,4,...,2n