There is partie deficed of the is plenty of defice of the interced part. The =0, of the interced part.

Rule There exist topological inflots with Ex = Fo.

An interesting example 1 x0 + x1 + x2 + x3 = 0 (CP3 LA K3 Surface . Simply concerted. -s. even to wholse: ·rk=22 · Qk3 = -2 E8 @ H3 elliptic fibrotion E(2). -6 = 16. Picle depue 3 polynomals Po, P. For each p, there exists exactly For each p, there exists exact y

(1) = 04 ar [xo:x,] = (p' = t p = 4 xo Po + x, Pi = 2]. Priticular 1P=01 => get CP-1P,...791 -> CP'. world come (P# QCP2 -> CP'. yearic from is a toms. Exercise 1) show that

2 (nobld (nosed))=1 7= x3+x2 Eusp x2= y3 2) Show that if thee are any wood curues =) the= 12 of them. Ficx; uplan from Xo - GP' elliphe fibrations. X' - ap' nbhd = F;xD²

D. Xo#X, = Xoinbld(Fo) Up X, inbhol (F1) (b) (6)

 \Rightarrow he general, can define $E(u) = \#_F E(l)$.

Milliple filsers Hopf dibration: 53 -> 52 (to, t, eC) (to)2+12,12=17. is fiven by the s' action: $\lambda \cdot (t_0, t_1) = (\lambda t_0, \lambda'' t_1)$. -> torus floretra S3 x S' -> S3 Hopt 2. (on it der 53 = 52 /.(20,2,) = (12, 12,) -> (0,1) is a point of sider m. THE Que has odd by

(=) no kähler shickel Qn: 53x5'->52 Log transpion E(n) prin Pore = E(n) # = Qp... # = Qm. Thus $n \ge 1$, $p > q \ge 2$ $E(u)_{p,q}$. In even $E(u)_{p,q}$ = 1 odd bonus.

1) They are $S.C \Rightarrow boneonerphic$. In odd $E(u)_{p,q}$ all diffeolones. 2) Pairuix un diffeonorphic. -> very subtle difference between topological (smooth doth ficher. de will stishnquish Ham by nears of the Scitzer-Witter monacts. SW: Spin (X) -> Z. cont soletion to cortain won-live PDEs.

-s reed to userstand some DG before!