

ause directed systems. Cn: cpt Lie gp, then } {Bi->Bi} whose limit is ECI->BC i-connected, ie Tk(Bi) =0,15kin and let xia= E-xGx, 7-a= Eixa7 36 HP(Xia) -> HP(x) +p = i P ·then X'a dim B: > C 16 res Costa de La Carlan | 1 cmp HPG(X) -> HP(Xia) ----> HP-4(Yia) -> HP-4(Y) 5) pd 31 pd-1 Men-p(x-cn) -> Hen-p(y-'a) § 2. Self-intersection formula ex apt mfd; E->X oriented Ubdl, +kE== $H^{\circ}(X) \xrightarrow{\sim} H^{\circ}(E, E \setminus X) \xrightarrow{\rightarrow} H^{\circ}(E) \xrightarrow{\sim} H^{\circ}(X)$ Hilk) Thom ison. e(E)= image of y · let X => 7 cl. inclusion of cpts, N= Nx/y=Tylx LTx · F tubular abha XCTE7,

H'(N,N(X) ~> H'(T,T(X) ~> H'(Y,7\X)

· say Nis oriented compatibly wrtz, and As coding X othen H°(x) Thom Hd(N,N(x) ~> Hd(Y,71x) ->Hd(Y) - Self - int. formula: z* 2x 11 = e (N) § 3. Trivial toros action · X: Sm. II - vas. the trivial - E → X equiv. vbd, E = D Ex where

+ no = X(t)e X GHo-(T, (*) = Z dim T toe=x(t)e $\frac{1}{1} \times \mathcal{E} \qquad \qquad \sum_{\mathcal{E}} V_{\mathcal{E}_{\mathcal{A}}}$ $\int dx \pi$ $E \Pi \times^{\Pi} \times \cong B \Pi \times \lambda$ Lident 1 T TXX Prz X · Exercises show Vox = Vx & Ex = Px Vx & Px Ex · CiT(Ox) = C: (Vox) = = = (okox-k) (ck(Ok) · xi-k H*(x)& H# = H+ (x) ·XT= {xeX | t.x=x, teT} > F conn. comp.

~> E -> FCXTCX

becomes invertible is

§ 4. Localisation formula

$$4 = \sum_{\lambda} 2 \times \frac{2^{\lambda} 4}{e^{T}(N_{\lambda})}$$

$$= 50 \text{ using } M_{\alpha} = 2^{2\lambda} \times M \text{ we get the } 19$$

$$9^{\lambda} \Rightarrow p^{+}$$

Example How many lines (EIP2 pass through 2 general pts?
-goals Sp2 C1 (Gp2(1))2 V=H°(P2, Gp2(1)), 0->5->V&G->Gp2(1)->0 Vik > C.x; & Cak slinear forms vanishing at pi, $X = \mathbb{P}^2 \mathcal{O} T = (\mathcal{C}^*)^3$, $t \cdot x_i = t^{w_i} x_i, 0 \leq i \leq 2$ $-X^{T} = \begin{cases} P_{1} = (1:0:0) \\ P_{2} = (0:1:0) \\ P_{3} = (0:0:1) \end{cases}$ \\ \begin{align*}
& \be = = (, "(Upr(1)) 2 |p: ett (Tp: P2) Op2(1)|p:= V/s|p:= V/V; k= C.x;
weight - w; ett (Tp: t) = T((w: -wj) $-> So: \frac{\sum_{i} C_{i} \nabla_{i} C_{i}}{e^{ri}(T_{pi-})} \frac{(-w_{i})^{2}}{(w_{i}-w_{2})(w_{i}-w_{3})}$ $w_{1} = 0$ $w_{2} = 1$ $w_{3} = -1$ $w_{3} = -1$

