(-m) 2-

CHo(S) Chow gp of O-cycles SES rational require lence of the sichested pts. $S_{W_{ij}}(\mathcal{F}) = \sum (S_{G}(\sigma))$ Tishyling assumply the of which

Simplifing assulp. Y smooth dud U CNTh X V=Y\D finale étile divisor of Y with Galois coverng Simple normal crossing D= U; Di Smooth Di, n-- NDi; transversal SG(O) = faganithmic modification of Yxy Matersection placent (5, 2)

2-

169 part produt

Y > D = UD;

smooth div. w SN. E

Je Jos blow up at Dix Di remove proper trans form logarithms of Dxy U 4xD

Example Ad = Sperk [Ti... Ta] DD = (Ti-. Ti Adx Ad=SpB[T1, -, Td, S1, -, SU] = A ACHA SPIALUT, Und $U:=\{S: \}$ $V:=\{S: \}$

2-

Q (G, Mag) rxy (H) (M)) = - (To, 0/9) /* /

J=1. 3G(1) by

 $\Sigma SG(\sigma) = 0$ $\Sigma SG(\sigma) = 0$

Sq (0)=0 order of o unless

= power of p

log modification of wild name fination

2-5

di~ V=1 0 +1

SG10) = SEXIV J (5(12) -1). [3]

o fly

CHO((1))=@Z.3

200

Lefschetz trace formula for Open variety 2(-)Tr(0:+(1/2,02).) = - dy SG (5) deg! CHO(YIV) - Z Ing[y] Ing desig II & V=Y (D=Ø) usual LTF.

Definition of Swan class Style (5) Smooth Qe-Shif on U sr-plifying assin

Thm (Kato - S.) Smooth (h) Smooth I-adic shuf () B T(UE. 7) - rk 7. T(UE, Qe) = - deg Sw(f)

71 E

ī

traditional method in van ficulian theory - Kill namfiration by namfied covering - lawn runbering filtration - Swan dass to compule Enter number

new method - kill (partially) row-firstian by blow-up - upper numbering fil. - characteristic Sichelle Iclans.

9

27

74

2. Ranficution groups of Iveal field with non-purfect residue freld Che come purfut. X/R variety din > 1. dmD=1 Divisor K = Francoxis)

view fd = Fan fd of D Su pt of D

Complete disoreto valuation field F ves fol. not necrossary perfect L/k finte Eulois ext'n G=Gal(L/k) Et has two filtrations by nan-fiation 9PS - lower numbery (Fil) CEN - ablu = (EL) NOO

- Aut (A(X/1+mi))

rigid analytic polydisk G=F10)&D=F(x,-x,) V(x=)204 1 15 $O \in D^{\bullet} (f(x_{k--}, x_{k}), -- f(x_{k--}, x_{k}))$ Gi=GND(i,1) = Small polydoxc radius centar = fo(G/d(o,1) \le 11 \tail) uniformiten.

(over nuher my

9G=30EG or is in the same course pt. (as the identity)

2-18

migral geometry us algebraic gen. 2-19
Shrinking the blow-cup
radius

1

L/K @ finite Cilos ext'n. geometric on pin Assure X smooth / & perfect DCX snooth wed div. 3 gen. pt Q K = Free (Q E) ECY SITE Etale

Livite Étale

Livite Étale DEX ENEXPERSE G= El(VV)