and glung construction of K3 rutices. Amold's type thus on 東北大 株でさナー 15:00~16:10 Goal of this talk (uniformizeth)

SI JO Give a "rigidiey" result for the cpx ser.

of a small without of a come (suf. (32) Apply it to the glang conservation of K3 surfaces \$1. C C S

holy von-sing

tops one, ope such

reliced s.t. Ny 2= [c]( C.t. Thul(Grange 62) o (C2):= dy Nos (O => C can be conserved! (c:sm) Cadmit, a

(c:sm) hol. tub. nbhd. JV: a whole cins 3 V'; a ubhl of C:= 0-sector C NGS ellipe fibr. Rock of hol tub ubhd in general. e.g. Sens e.g , Nis=1 Utda's e.g = C: ellips Thul (Amol's 76) C! sm. ellipe. 1.7. Nys & Re(C) : Dioph. (i.e. 3 A 20, 34 20 St. dise (Ac. Dis.) => C admits a hol. tub ubld KOKUYO 100SE-LEAF 7-3368 6 mm rufe

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Veda generalized Arrolds than as:     t=0   t =14
Thm2 (Veder 83) cope for with Nig: (6 cpc kill with \$120) dynigs
C! opt R.S. CS (c)=0.
Assure Nys: torsion at or Droph.
VN21, Ün(c,s)=0 e H((c,Ngs))
Edittenene borneen, CCNGS in Nojee
Then 3 Vi : open car of a nobbd V of C ins,
I w; ; V; -> C ; (oc. def. fue of C.
$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$
Cut Ciellion New 1 1 5 11 11 11
c.t (: ellipt. Not! non-to- => H(c,Nm)=0 ( at DV: pod flat ).e. ov: Loi-Hat
= Cadmite a ser pol conv noble
(S·C \( \sigma \( \sigma \)
Thut K-17 Indiana.
Then 2 also holds for, the cure where
if Ngs ( UCI) - Hat C is a cycle of raid cures,
In this case.
C.f. OH((C, M) = of Of it L= 1c vertage
1 1 1 1 2 With a mode
Ny: non-an => H'(C,N-1)=0
$0 \operatorname{Pic}(c) \simeq H'(c,c) = C'$
1 U(1)- flat ( == -Ua)
Rote [Veda 91] C! some circle of P's Cabris pol conv. while

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No. 2

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KOKUYO QOSELLIF 1855 0 mm a

Improvement of That (K-17) Main resulte daglague of The 2 (And 12) Thu (S(K-) abone, C! a cycle of 1915. (c, S)(61,51) IC = C'EAT NGS = Nols,  $t(N_{45}) = t(N_{45}) = e^{2x \pi \vartheta}$ tor =OERIQ! Dioph. 7 VI whole of Cian 5, = V'; -+ C' in S', 1.t. V ≈ V' In the prt, we use some techniques from GPX Dynamiss. orighed from Thinb (Siege (42) Que 2: andhot o in C. f: 1 -> C : of f(0) = 0 ( t!= {+10) \$ ! Dioph (ac above) f: limble oe a'e D, = 6: 5/ -> C ((3)= 2+0(0') s.t. @ 0 0 0 (w) = t. w ((v) = + a: st + --- f(z) = tz + h: 22+--for(w) = ((+.w) + (w+92.w2.) + w+ 92.+2w2+---+ le. (w2+ -- )

"Small devaugnmen

Date

Thur (Amlifes they marize Thm. 3 (Vedu's thm) Wi= tie'We + O(Wa') : what for limitize for gale case? linealize! (andre of Veda's e.g.) Easily we can constant an eg. of 500 a voll our with anale 3 7: hol. foliarin. on S 15.7. ( Stag 7 = Csty ter VL = 7. yet: dipr. one with holony' = & dor & q(w) tw + O(w) t: "str. Crevan => @ has "small grades" around 0. > V: nbhd of C JECVIC: m. ellipsiane > FV: prof flat => # 1w; far in
Thin 2 Than 2,4. That white in # while a "Standard eg" in.
the followy . E.g. (9)

F.g. 8 Co C P2; come of Lay = 3, sm. dlipe 7 or \$ or X 2 := 1P1, -: Pa 9: nine prs. C (Co)reg. S:= B(2 P2 => P2; bup. C: = (2-1) \* Co. str. travet. attains Vp.t. & Pic (Co) by drugly 2.1. E.g. 9. ( the standard made of a nobel of C with t(Nys)=tect for C: avatil one with a node T: Opi (-2) -> 1P1 non-homeg. coord S = T-1 tiber coord to around 15=09 =: Do 300 and 15=00/=:Do. Pos (F & = 515) (€ 30=51.50) C: = zero-servi, Vo := 9 17/ < E, 15-1<E Vo+:= 1/5/58, (\$)(5) Tio= a small upho of Eigs=0,009 V:= Vot UV, UV  $V := V / (V_0^{\dagger} \Rightarrow (S, 3_0) \sim F(S, 5_0) := (t5, 5)$ C:= i(Z) C V; +(Nys)=t "

(E.g.9) Obs i. V V . & Vo! = i(Vo+) = i(Vo-) -anthol of Csiy.  $\nabla_{i} = i(\nabla_{i})$ --- (Cry)-nbW. Wo!= 5.30" on Vo W!:= "5.30" on VI  $w_{i} = \begin{cases} 1 \cdot w_{0} & \text{on } V^{\dagger} = i \\ t \cdot w_{0} & \text{on } V^{\dagger} = i \end{cases}$ Q Classification of (C,5) with opt s.t. C admits a standard " whil? Outline of the pit of Thin } = Main variety Strang States from (general) (C,S) as in Thins, we show the existence of "standard" noted" Ho Assure C: a varil one vitha node (Sussiglion) @ Do: a ubhd of the notal px. CC ひさんびい Vi; a nohd of Di s.t. Vin C= U-Von Vi = V + U V Vo: 2-copies of Vo, Vi : a copy of Vi,

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C + Do + P00 dey (i+Nys) = 0  $(2^2) + (\overline{c}, \rho_0) + (\overline{c}, \rho_0)$  1< minfo, 4-49 } Th-1 (and) T can be embedded in Opi(-2) @ 5=TT! coord of C s.T. Don C = 15=09 extend S=TT to F 5. t. Do = 15=08, Dos=17=08. by shorky if ness . JU: str. ps/ com nbhd of T s.t. UDF. Obsana's vanishy than = H'(V,OV)=0 exp-ex.sel. Hop. tril. 1.6. 1 : hol. tril (Po Do) has kglob Sect resser 6 mm ruled po lines

Thu 4 $\Rightarrow$ = 1 wo, wit s.t. wo = ter wo on $V^{\pm}$ to $r = t_{\pm} \in V_{0}$ ) $\widetilde{W}: \widetilde{V} \rightarrow C$ ; defined by $\widetilde{W} = dt_{+}W_{0}$ on $\widetilde{V}_{0}$ $t_{-}W_{0}$ on $\widetilde{V}_{0}$
$\widetilde{W}:\widetilde{V}\to C$ ; defined by $\widetilde{W}=dt_{t}W_{0}$ on $\widetilde{V}_{0}$
W: V - C; defined by W = dtown on Vi time on Vi
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
( ( 1 1 ) t. ( )
$\left( + \left( N_{45} \right) = t_{t_{-}} \right)$
- ·
0 5.:= W/5 , 30:= W/T
_
a F! Vot = Vo "deck trust" of i
$\left(\begin{array}{c} (i(p)) = 4P \cdot F(p) \end{array}\right)$
$\mathcal{F}(S, \S_{\bullet}) = \left(\frac{\xi_{\bullet}}{G}, G \cdot S\right)$
10-3 G: Vo+ → C+.
0 by replacing w with w/Gco,0), w.n.a. G(0,0)=1
Erough to how; G=1 by change s.T.
Obs tor H! V -> O+,
S:= H-1.5, T=H.T.  3:= H.3. "3-1=H-1.5=" (0: Hred)
3. = H. 3. 3H. 3.
GET H
$\widehat{G} = G \cdot \underbrace{H}_{F/H}$
>> Enough to show!
her (C, Oc): mj //