	No.
	Date 2 017 · 3 · 22 .
Non-Kummer K3 surfaces with Levi-flat hypersi	urtaces.
Cut	9:30 - (0:30
Det X: cpt .cpx surt.	
Det $X : cpt . cpx suvt.$ $X : k3 \Longrightarrow \pi_i(x) = 0, \exists \sigma : nowhere vanishy hol.$	2-torm on K
Det H C X; (cos) Levi-flat = 37; (cos) veal cypersurt. each le a hol'ly Thun (3 X: K3, not a Kummer surt	foliation on H
hypersunt.	of Codimp=1,
a hol'ly	inversed ODX rebute
Thun 1 3 X: K3, not a Kummer surt,	ot,
5.t. 3/11 ((7 (D ())) (CO)	f. Leui-Hat
Vt, Ht 2 s'xs'xs',	wp. surfaces of X
each lengths of He is I dense in H	t.
bihol. to. C	or of.
Corl 3 X; K3, not a Kumer surt,	
$\exists f: C \rightarrow X: ho(,$	
s.t. (F(C) Fuc; real hyp. sunt of	coding=1 EX
$f(c)^{2ar} = X$	
by partching two complex forms	14 1 141
The open conflex survaces 10	holovorphical
@ M = (= 9pts b-up of p2) \ (a nbhd of an ellip	r.cma)
 We will construct such X by patching two open complex surfaces /1).
Thm3 3 X T B; deformation family of	(C) Jayseus
S.T. dim B = (8,	
Xt: as in Thal, Gr 2 (Xt:= 17(41)	for teB.
S.T. dim B = (8, Xt: as in Thal. Cor 2 (Xt:= TT(t)) The Kodaira-Spencer map Prs. TB	for teB. RITH THE is injusted.
§ 1. Motivation from Arnold's and Vedr's rend	es.
§2. Constructon of a 13 surface.	
§ 3 prf of That, God, #3	-LEAF 7-8385 6 mg/n0/p6 lines
(Outline of) This. KOKUYO LOOSE	The state of the s

Date

X1 /
Interest Cpx analytic str. of a uphd of with
a opt cpx curve C
embedded in a cox surt S.
(at (C') = deg No/s <0 => 3 str. psd convex ninds sys. of C.
(c) (c) >0 = str. psd concave hbbds sys. of c.
When (c)=0,
Thu 4 (Avnol'd) (76)
1 C: ellipe curve and NGS & Ric (C): Drophantine.
i.e 1 (1 A 17 +11) - 0(1 12)
i.e lay d (le, Noth) = 0 (leg n)
⇒ 3 V: and of Chs,
= 7: a what of (0-sexion) < Ness.
S.T. John J
/2//0/
2-section.
[T. Veda 83] Classification of (c,s) with (c2)=0.
(Jeda's classification (Outlie)
with (C2)=0. The case where (C-nother 1) = (k-sect'n) -nother 1) formally in N/s; along C
along C
(se et 31 jec/end)
Twelly adyle
Negs: torsion Pro(c) type (B)
Neg: non-co-TC admits a positive
the other = sepect

Dato

Ruk N4s: tor (C15): type (P').

N4s: Dioph Arrold-Vela, type (P"), 3 y as in Thm4. a In ey. 6, 3? Z s.t. Me (c,s) : type (r) ? a In e.g. 6, when Nys! Dioph, what is the max! Vas in That? §2. Construct'n of X Fix Co, co CP2: sm. ellips. curus S.T. 39: (6) 3 Co. L→ Co ; Dioph 1.b. Take, . Z = 1P, P2, -. Pq1 CCo s.t. NYs =L,
where S!= Blz P2 D C!= str. travsf. +G 2'= 181, P2' - P4' (CC' S. T. Noys = LT, where -Arrold's thin Ty; c-nbhl < 5 s.t. V = 1(2, w) EL | w| < R (f.ber coord.] (R>1)

Coord of C.

Hat wetvoc 3 V'; c'-nbhd cs' s.t. V' = (12', w') = L'| |w'| < R' { 7 Putch Mand M' by using $M \supset W + 3 = \phi \left(\frac{1}{R'} < |W| < R \right)$ Which $M \supset W + 3 = \phi \left(\frac{1}{R'} < |W| < R \right)$ $M' \supset W + 3 = \phi' \left(\frac{1}{R'} < |W'| < R' \right)$ X := M WMM'; Cpt cpx and. Ruk [Doi'09] -- topolography the scare courty of K3.

(need to defore the grstv.,
of M,M') [Tsuji 84] ... Constr. of (S3xS3, J) by a sintler using Arnord-type thus.

10. 3

Date

§3 Outline of prt W* CMCX $(t \in (\overrightarrow{R'},R))$ · Cevi-flat hyper surface as In That Ht:= \$(1(3,w) (1Wh = t 4) Enough to show; 1 · X: k3. ← Prop 7 + Prop 8. $H_{\mathcal{L}}(X,Z) = \begin{cases} 2 & 2 = 4 \\ 2 & 2 \end{cases}$ (Use Mayor-Vietons seg. for WOCM, EX, WOCME propo 3 of: nowher vanishy hil. 2-form on X. η : mero 2-form on S with $dv(\eta) = -C$. η' : -H on S' with $dv(\eta') = -C'$. @ consider a hol. fore F:= (Fidention: W* -> C" Fact How, and = 0.11 F= const & C* "> Werry assue 1. Mor = den dur Parameters; P. Pr., ... , P8 Pill -- Pg, 外的 (z,w)~(g-(z)tt

Date

P(2), P(2) M.V- seg. H°(Me, TM) O H°(M', TM) -> H°(W*, Tw+) -> H'(K,Tx) -> H'(M,Tm) @ H'(M', Tm,) -> H'(W*, Two) MCS