KOKUYO LOOSE-LEAF /-836B 6 mm ruled x 36 line

Toward a higher coolineusional Veda theory \$1. a veriew of Vodas, they X: cpx mtd. L: hol. line bdl. \$2. Main varile. §3. applications rexemple 8 4 det. ot. "Un," Det Liflat = 17: (! open cov. of x. (55. pt. = ((Ui, ti) (: (oc. triv. of L. S.T. ti/th = "tik & (1) // El a review of. Leda's theory - Setting X: Sm. cpx mfd. S: Sm. cpt kå hypsurt s.t. Ns/x: flat (fact. Ns/x: top. triv) Interest ... When does the line bdl [5]. admit a flat structure on a ublid of sin X? Usda defined the obstruction classes / Un(s. X)4 U, (s.x) & H'(s. Nsx); well-defined. @ Un(s,x) ∈ H'(s,N=") : well-defined (S.X) = 0 well-tet. type (S.X) = n ∈ M. (uv (s. x) i well-let, = 0. for V<n) = I J V : tab. nbld of Sin X. O(Nsx) @ Ov(-us) # = Ov(s) @ Ov/ -11 7 -11 for 15 DEN.

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\$2 Main result

Setting X: cpr mtd.

S: sm. hyp. surf of X
C: sm. 'cpe Kå' hyp.surf of S.

s.t. Nox: flat on a noble of Cin.S. - We befored

new obsaruction classes (Un, m (c, s, x) 4.

for h21, m20. EH'(c, N5/10 Ng.m)

and should ...

Thm 2

Assure (i) Neys & Eo(c) and Nexte & Eo(c)

(ii) $N_{c/s} = N_{s/k}|_{c} \in \mathcal{E}_{c}(c)$

 $N_{S/k}(c \in \mathcal{E}_{o}(c))$ and

= V': a str. 1-convex noble of Cias

s.t. C is the maximal ept
analytic sub. of U

w, m, Un, m(C, s, x)=0 =) -W; a upmo o,
s.t. Ø[s]|w: Hat/

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53 example P3 > P1, P2, ..., P8: general 8 points. We may assue that Qo, Qo: SM, Qot Qo. ~ (Co:= Qon Qoo ; sm. ellipt. come., (Co,(Co) = Co,(Ka,') ○ X:= Blirit P3 3P3 Sa!=(\(\pi'\)* Q2. \(\nu\) \(\n Nso/x = Oso(C), (C:=(x-7)*Co) N:= Ns/x (c = Nyso = Op3(2) (c & Oc (-P1-P2--P8) tace Kx! semi-ample (NE Eo (Ca). N € €0(C) => Bs | Kxm | = C for 4m21. Cor3 (= Th-2 (1)) NE EO(C) ~ E(CC) => = w: a nbhd of (in X s.t. Kx | w: flat prt --- H'(X,N m)=0 to- \under n21, \under m20. Cor4 NEEO(c) (c) = Kx admits a cometric with semi-positive curace

0

\$4 definition of "Un, m (C, S, X)" Fix 1 Til: suff. the.

1 V; 4: suff. swell ubbd of T; in S. St. V := UV; tub. nbhd of ChS. twit: suff. small nobbd of Vi in X s.t. W = U wi! tub. nlhl of Vink. ~ | Ns/x = [(Tia, = Tia)4] & H'(5.05) Wis too. let. func of \$ in W. S.C. Walvik Tik. of fix & z; det. tuc of Qin V; ax 2000). ① $t_{jk} \cdot W_{k} = W_{j} + \sum_{n=0}^{\infty} t_{jk}^{(nn)}(x_{j}, z_{j}) \cdot W_{j}^{n+1},$ $t_{jk}^{(nn)}(x_{j}, z_{j}) = \sum_{n=0}^{\infty} t_{jk}^{(nn)}(x_{j}, z_{j}^{n}).$ $J(V_i, w_i)$ (! of order (n, m)) def $J \nsubseteq N \Longrightarrow f_{ik}^{(\nu+i)} \equiv 0$, $M < M \Longrightarrow g_{ik}^{(n+i, n)} \equiv \rho$. tor File " bour Face 1(vi. wi) 4: of order (n, m) (Uin, gin) (& 2' (10:1,0 (Nix 10 BNG)) ~ Det Un, n (c.s, x): well-det € = 1(v; w;) {: of order (u, n). In this case, Un, m: = [[[]]ik,]ik

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§5. Outline of the prt for (11,41).	
Gast Define a functional equation.	
Stateyy OD (U)	
{(Vi, Wi){! of order (1.0)	
S.t. the solution $U_i = W_i$ sortites that. $W_i = t_{ik} \cdot W_{ik}$ for V_i .	
What is the condition for 1Five. ?	· /
the ansau is: De Gi (Un) (4) . 2 in.	
S/(Uj, @john)/9.	
= ((Tile, gill, + 2 tunceron on Tile) {	
uniquely defind from (Govin) (
$\in \mathcal{U}_{\nu,n}(c,s,\lambda)$	
tace.	
Thus we can formly before 1Fiv19 if Un. n (C,S,X) = 0 for Vn, m	
if Un. ~ (C,S, X) = 0 for Vn, m	
Knk Conditions (1), (6) is needed	
	! ()
Rok Conditions (1), (11) is needed for the convergence of (+)	' '