Q How about the case where
the cpx str. of a noble of Din X
15 a non-triv. one?
$\frac{\text{Hom 1}}{\text{C}: \text{cpx sm surt.}}$ $C: \text{sm. curve.}  (C^2) = 0.$ $L = 0_{\chi}(C) \cdot (\sim Linet).$
Assure (C, X). of finite type in the sense of
Assure, (C, X): of finite type in the sense of Vedu.  Then L! not s.P. (t)
As an application we'll show;  (##)  Thus I Example 5.9" in [Fujino 13] to Kolker's inj. that "
for a tub. ubhd V of c in X
As an application where Now is the flat ext. of North
Thm 2] "Example 5.9" in [Fujino 13] to Kollars inj. tha 11" is str. net but not 5.0 J. Reine Augur.
Ihm 2 Example 5.9" in [Fujino 13] to Kollars inj. thal"
is str. net but not SD J. Reine Augur

	If \$1. Some examples and put of This 1.	2.
) -	(1. 51. Some examples and port of Thin 1. No. Date	
) -	· [	
) -	Cor 1 Co: sm. curve.	
	E: a rank 2-vect. bdl/Co	
_	1. a That the but 100	
	s.t. $o \rightarrow F \rightarrow E \rightarrow \mathcal{O}_{co} \rightarrow o : e$	x. ····(*).
-	$X := P(E) \xrightarrow{\mathcal{R}} C_0$ , $C := the section$	in of T.
) <u> </u>	$\sim \mathcal{O}_{k}(c)$ : s.p. $(*)$ splits	1.
<b>D</b> .		
) -	Cor2. Co! a sm. curre of genus 2.  Co Co Y: the Jacobian of Co	
	P.g. : conjugate to each other	•
-	P.2: conjugate to each other by the the hyp	ellipt. indutin
	X:= the b-up of Y at 1P.29.	
) -	C := the strict transf. of Co.	
	~ Ox (c): net, but not s.p.	1.
) -	prt of Gorl, 2	
	Neeman should that the type = 1 in	the severa of
	for these situations	Vel
		//.
_	(b*)	holds for M=1
_	prt of thm 1	- A
_	a simple application of Voda's thun	
- -	Sm. curne sm. surf.	
7 -	Assume (C, X) is of type n. <0.	
)		

No.	P
Date · ·	هم _
	_
ie Ny & Ov/Ov(-vc) = Ov(c) & Ov/ov(-vc)	- ` م م
holds for V=1,2,, N-1,	. ` ا <del>و</del> م
and for v=n,	···· (
Then (Veder) 83. "On the neighborhood of a cpc operance with cop. twin. normalist, with cop. twin. normalist, Math. Kyoro. Univ. $\forall \alpha \in (0,n) \subset \mathbb{R}$ , Math. Kyoro. Univ.	ر ام
with top. tviv. nombill, $\forall \alpha \in (0,n) \subset \mathbb{R}$ , $\forall V : \alpha \text{ ubhd of } C \text{ in } X$ . $\forall V : \alpha \text{ ubhd of } C \text{ in } X$ . $\forall V : \alpha \text{ psh function on } V : C : \left(\frac{i.e.}{V = 90} \cdot \overline{\Phi} \ge 0^{\circ}\right)$ $S:t : \underline{F(P)} = o\left(\text{dist}(P,C)^{-\alpha}\right) \text{ as } P \to C$	– سير
V: a ubhd of C in X.	' •
5.t. ("J=90 #20")	) "
	'
Then 3 Vo: a while of Cin V	. / a
	٠,
From now on, we'll show that	_ ~
$h = \frac{3}{(const)} \cdot  f_c ^{-2} holds around Consthisperunan for h: singular Hermitian metric on O_{\kappa}(c)$	-
for th! singulon Hermitian metric on Or(c)	 )
where to E H° (c. Ox(c)); canonical section	
	), f
Det L! a line bill /x	/
h: sing. Herm me tric on L	_
Let 3 hoo; sm. Herm. netvic on L.	- /
$= \chi : \chi \longrightarrow \mathbb{R}^{3}[-\infty] : locally L'$	. /
$\int \frac{1}{1+e^{-\kappa}} dx$	<i>(</i>
h is a "metric" s.t.  the local weight tunc & of h is Lie.  Ruk Itc -2; sing Herm, metric	
the local weight tunc t of h is Liec	_
Ruk Itc -2; Sing Herm. were's	
with the load weight & = log Itcl ash	

~ J-1 P/1-2. 20)

Asone h! a stry. Herm metric with s.p. curvature.

 $\underline{\Psi} := -l_{g} |f_{c}|_{h}^{2}$ 

~ I foothy - log (Hel? e) (4: the local weight)

 $= (\varphi - (-\gamma |f_c|^2) = o(dse(\varphi, c)^{\frac{1}{2}})$ 

Vedu's thin. = Vo! a ubhd of Cin X, = M = : const.

I = M on Vo. >> http://e-Millipse.

Cox. Ifc|-2 is a sing. Hern, metric on Ox (C) with s.p. curare."

with unuinal singularity.

10 Det. L! str. net € VCCX, L.C >0

str. net \$ s.c.

e.g. (Mumford)

~; a sm. opt curve of genus=9>!

tact | = F: rank 2 - vect. bdl /2.

S. t. deg (F) = 0, SmF: stable for mz1.  $Y := P(F), L_Y := O_{P(F)}(1)$ 

~ Ly: str. net, but not s.p //.

Q2 str. uet #> s.p.

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Claim the above Ly is s.P 1.	· <del>-</del>
prt [Naraduhan - Sedadvi] ~> F: f	-{a-€.
i.e 3 hf : sm. metric on F	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
$\frac{S.t}{2}$ = $\frac{2}{IIi}$ : open cov of $\hat{C}$ .	F on Uj
S.T. (S;   he = 1 tilhe = 1	, (Si, ti) = 0 11
~ her ! = the fiberwise F.	S. metric.
We we $(W, X) := [W. S; \alpha)$	+ 4 to 7 - PCF) - V
$\frac{1}{2} \frac{1}{2} \frac{1}$	or cond
or the local weight Cir. of	her is;
PL = log (1+ 1w	
e.g. (= Example 5.9 in [Fujine 13]	_ · · · · · · · · · <del>- · · · · · · · · · </del>
C, $Y = P(F)$ , Ly: as ub	
$0 \to \mathcal{O}_{\widetilde{c}} \to E \to \mathcal{O}_{\widetilde{c}} \to 0 : e$ $X := \mathbb{P}(E) \xrightarrow{\tau} \widehat{c}.$	x, von-spirting
B != the section of T.	
$\gamma := \chi \times_{\mathcal{X}} \gamma \xrightarrow{\eta_1} \chi$	
$\int_{\mathcal{L}} R \int_{\mathcal{L}} \int_{\mathcal{L}} dx$	
$Y \longrightarrow \overline{C}$	
$\Sigma := \mathcal{O}_{\gamma} \left( \widehat{D} \times_{\overline{c}} Y \right) \otimes I_{2}^{2}$	Ly
a) [: str.	net, but not s.a

Q3 (Fylino 13 Question 5.(0)) 15 C 5.p? Cor3 I's not s.p prtof Cor3 Lee hi be a sing. Herm. wetric of I with s.p. curvature. Fix a sm Horn metric hoo of Ox (P). ~ 3 x: X -> RY-09: L'oc. s.t. h= (Pitho) @ (Pither). e-x 1 local coord. system of 2 ... a low coord of the UCC (W,X) ... as in Eg. (Muntoud) = (2, X) -- a loc. cool system of X (2: a fiber coard of 2 = 2. ~ (the local neight of his)  $= \{ \infty(\mathbb{Z}, \mathbb{X}) + \{ -g(1+|w|^2) + \mathbb{X}(\mathbb{Z}, w, \mathbb{X}) \}$ Q χ(z,χ):= Max χ(z,ω,x) psh wo πindly e Θ Υ |υ := π'(U) ×υ π'-'(U) = TX X P' x P' X (Plu), R 1-08 m (os(2, x) + log(+(Wol2) + X(2, Wo, x)

; psh for each locus of UxxlP

••••••	
ate •	
	<del></del>
	$\begin{cases} (2, x) + \hat{\chi}(2, x) : psh \text{ on each loay of } \\ U_x k \beta_2 \end{cases}$ $hoo : \begin{cases} -\hat{\chi} \\ \text{ sing. Herm. we tric on } O_{\hat{\chi}}(\hat{D}) \end{cases}$ with $p$ carrotane
	$Y(z,x) + \Lambda(z,x)$ ! psh on each loay of
	$\sim$ $6 - e^{-\lambda}$ ; $c_{11} = 1$
	Sing. Merm. Wetric on Ox (D)
	with 1.p. curvature
	$\frac{\operatorname{Girl}}{2}$ $(1 e^{-\widetilde{\chi}})$ $\geq a_{AA} / c / c^2$
	$\frac{2}{\sqrt{h_{\infty}}} \cdot \left( \frac{e^{-\widetilde{\chi}}}{h_{\infty}} \right) \Big _{V_0} \geq \frac{2}{\sqrt{M}} \cdot \left  \frac{f_{\infty}}{f_{\infty}} \right ^{-2}.$
	0-9(
	tor 1=10: a noted of \$ in \$.  to eH°(\$, Ox(\$)): cun. section.
	76-67 (х, 0, (р)), од. зетой
	~ o→ o*(1/(1-2)@/2+1 )
	m p; (4/fo/-2) @ (P2+ hLy)
	< P,* (has: e-x) & (Pither)
	The contract of the state of th
•	$\leq (P_i^* h_{\infty}) \otimes (P_i^* h_{iy}) \cdot e^{-\chi} = h_{\alpha}$
	him mur have st-gularities along Pi (D)
- · · · - · - · - · - · - · - · - · - ·	
	· (Pit/fol-2) @ (Pither):
	- (r, 1751 ) (Pihy);
	a sty. Ham weter of I
	with s.p. curature
	with mining / Sings
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