X: cpx mtd. (proj) L -> X: h.l. line bdl. (net) MOUN interest! The semi-positivity of L. Det L! Somi-positive "(S.p.) at 3h: cas Horm. metale on L. st. 50 0 20 known; L:5.P. Linef

2 3 counter e.g. (Denailly - Romell - Schnowder, K-) Fix Co C P2: sm. ellipe. curve 1936 (1=1 CCo: 9 pes, diff. from each othern. X:= Blogger P2 - P2, C:=(T), Co m Kx' = Ox(C) ! net Thm (Vada, Brunella) (x, C): as above, V_{x} : Semi-positive if $V_{yx} \in \mathcal{E}(c)^{\vee} \mathcal{E}(c)$.

where $(\cong \mathcal{O}_{\mathbb{P}^{2}}(3)|_{C_{0}} \mathcal{B} \mathcal{O}_{\mathbb{G}}(-P_{1}-\cdots-P_{n})$ (= Op2(3) | Co (B) Opo (-P,-...-Pa)) Eo(c):= {F∈Pic°(c) | 2n21 s.t. F= Ic} E((c):= | F∈Pre(c) | -(-yd(1c,Fn) = O((-yh) as y Ruk. It is clear that. Kx1: semi-apple > Ng/x E Eo(C). - ELLEN YFEPICCO, = 18:49 S.T. NYx = F. honever $\mathcal{E}_{i}(c) \subset \text{Pic}^{0}(c)$ if full-measure, $\text{honever} \quad \mathcal{E}_{i}(c) = \bigcup_{\nu=1}^{3} \mathcal{E}_{i,\nu} \quad (S_{\nu} \subset \text{Re}^{0}(c)) : \text{ dosed sub}$ Question (Denailly ---) 3? IPit9 Co st. Kx : not semi-positive?

i.
§ Main veriles
X! cpx surf. (possibly open)
L:= Ox(c) (~> Linet)
Assure Nos 1-11
Assure , Ngx:= Llc: top. triv. · C is a cycle of P's. (for simplicity)
is a cycle of 113. (for simple et a)
and the dual graph of Cis a cycle graph
Thu A $N_{4x} \in \mathcal{E}_{(C)} \Rightarrow L!$ Semi-positione (
Thinh Nyx & Pic(c) \ Po(c) => 1 : not so inside
Thinh NYX & Pic(c) \ Po(c) => L: not semi-positive.
Image (H'(c, U(1)) → H'(c,0*))
e.g. When $C = a \text{ ratiof curve with a node},$ $A Pic(C) \cong C^{*}.$
y P; °(C) ~ €*
1.1
$P_{o}(c) \cong V(c)$
$\mathcal{E}_{o}(c) = \left\{ e^{2\pi J_{1} d} \mid d! rati \right\} $ $\mathcal{E}_{cc} = \left\{ e^{2\pi J_{1} d} \mid d! rati \right\} $ $\mathcal{E}_{cc} = \left\{ e^{2\pi J_{1} d} \mid d! rati \right\} $ $\mathcal{E}_{cc} = \left\{ e^{2\pi J_{1} d} \mid d! rati \right\} $ $\mathcal{E}_{cc} = \left\{ e^{2\pi J_{1} d} \mid d! rati \right\} $
E(CC) = YezTJTX X: "Disobantian 9 G
Applicatin; d: alg. ivnatl
Cor A "Tha (Veda, Bruvella)" also holds for nodal Co.
(E Thinh)
CorB' = $P_i P_i^q \subset P^2$ s.t. $K_X^q : nef$, honerer not SP . $(X := B _{R_i^q} P^2)$
$(\wedge := \beta \mathcal{P}_{1} ())$

prt of Than B = CorB'" Fix Co C P2 ! notal cybic and take 19; (1°C (Co)reg ! general. That $K_{x} = O_{x}(c)$: not s.p. Knk C: non-singular => Po(c) = Pie(C) S. Outline of the prt --- Run "notal analogue of Veda theor" to investigate the nilhelstr. Outline of the prt of Thu A -.. We use Thur (K- "nodal analyme of Uedurs thun) Surf model operune. Assume (1) "(c,x): type as in the save of Uda".

2 No/k @ Eo (c) U E((c) (E) (*N/4 (E) (E) (2 - c! normalization) (H'(c, €(Ngn))=0 =V: a noble of CinX s.t. ∂ Ov(c) ∈ H((V, U(1)) @ D∈ H'(c,Ng,n)=0 € C: a cycle of P's. Thuc IV, This Co Herm metric on Llv = Ov(C) s.t. A Ohr = 0. (Consider h := Reg min. {M.hr, /te/-2 { / 1+d-2 where $f \in H^{\bullet}(X, \mathcal{O}_{X}(C))$! The canonical Section,

KOKUYO LOOSE-LEAF 2-836B 6 mm ruled of lines