Ø 特異点でけー T(PILI) 51. 概要 82. 解析かりの準備 32の諸概念と代数の関係 主定理にかて 1 J(+ (PL)) 9 主定理の応用について PEN 81. 根要 (X! Sm proj. von/t L: big hol. live bdl/x 主定理 X: 特别在 tovic W/ 7"的。好 Lo minimal singular Harm. wetric. hmin, E 具体的に構成した。 10 Lがnetになるための 陰の情報 82、解析からの準備 Det (pluvisubharmonic function, or "psh") ACC": dom 9: 12 - R 4-009 o P: upper-semiconti

o VLC C": live, Plant: subhavmonic, Properties. pipsh 1: hol ~ God: psh 一) でX: Forl. 1対し、 では上psh"は well-def. o q:psh => q! L'1-c ~) 6: psh => dd c @ 20 "((,1)-current 4 = + Q'upper seri cont!

ho((ideal) eg o fi hot ~ log [f] : psh on 52 ... (*) fi, -, thol, t> e ->> +(g It; l': 1sh. X: cpx ontd c: line boll/x Pet (sligular Herm. vetric) h! slugalar Herm wetric on L def = how ! Coo Herm weters on L.

s.t. h = how e-4 -// --kuk @ h == e-& hor local neight etis." @ dd c q's glue up to define the current current sa (4) h assoc to h ho: Lo sm metric Si,-..., SNE HO(X, Lom) => (\frac{1}{\subsection 15; (\alpha)\frac{1}{hoo}} \dot hoo | x 2" L/x overvic" E \frac{1}{2} mg → init (hos (= \$357)) sty Herm metric.

local weight = inleg ∑It; 12 (t; s)

→ FI(H) >0 psh. (f.; Sj Eloalic hol tune & HELD) ~ F Q_ 20 tack L: ph. eff () Th: sty Horn. netric. onl, s. t. 57 0 20

Det (mining I stug Hern. merric) hmlu, L = e - quille, i sing Harm. metric. on. L sing Harm. metric. Tit. (i) d1 c quill 20 (ii) th=e-t: sly. Harm. netric on L, with dd 420 Thu (Penailly, Peternell, Shreider) L: psd. eft => 3 hours i min sig Herm wether on L. 215 S2の話状分と代数で別係 @ q: psh on Q C C J(4); multiplier ideal sheat & T(4) 1 = 9 + & Oax | Hie-4: (oc intble around 19 2"det t., ... tu: 521 hol OT := (4, -, 1/4) CO2 217 $J(t(g\Sigma(h))) = J(\alpha^{t})$ B_(L) (:= () SBECT EA) [XXX (V(Quin, L, X))>0) weight of huis.L. 1 (4,x) != + Lelong numb

Up: net hig. / T(1141) E. Hi(K, Ox(kx+L+P) @J+(h))=0 =) Ox (kxtL+(n+1)B) PJ(hu), gen, by globiliser. @ X: 5m. proj. var/& L! big /x J+ (hmin, L) != J((1/E) Pmin, L) (=> > 1718, (L<<1) T(ULU) ! = maximal elem. of) J(p IPLI) 1 pro J.(huin) SJ(Hull) SJ(huin) と同様の vanishing than かは (Pensily, Ein, Lazonsfeld) Question OB_: Z-closed? -- regative (Lesieutpe, 2012)

(2) St(hmin, L) = S(hmin, L)? (Devailly-Kollár couj) 多午, 主文理(=>4) -- hain」の見体的な形について。 ① L! ample ⇒ holo, lt SM (i ch] (1.40) = 24 € \$\frac{1}{2} \\ ② L! birat! Zaviski-decomp. T ... vag. part 1" quin. L. 0-0019 \\
(i) \ = 1. v → x , proper modification, (i.d.] +: X -> X: proper modification,

[] | P + | NY + divioual 2.D: Pinet N= I ridio(の) ×17. (min, 1 1 -01の発散は ほとんど log TT はは200 とい及からる → Z.D. 不可能を場合は? The Nakayana, -- X; abel sur ±0 P²-bsl ←= 516 mc.

① Lesieutre -- X; P³095. b-up. 以下 X: sm. proj. toric bell /cpx torus. とわ. つまりしていまらまもの. V: cpx torus dim = g N:= Zn, M!= NV ∑: No fan, O∈ P&3 rard polyhed PCNR 85\$\$\$. Li Pic (V) -> M; group hom. EHUT X := IN(Z,L) - V ; V + o toric bd |

OEI; cone -> TN (r, L) := Specy Dough I'm or GYLAN & 7 O = cone IV., .., Vn y (V., .., Vn # NE &A) ~ s',..., sn; Lv's local toir. 217. $T_N(\sigma, L)|_2 = Spec + [S'(2), --, S'(2)]$ (26 V) = T((25) RMK Lvi; VI line bil 1= st(? 自然な局所自明化 Si E ZEiliczomでき」 TN(01)/2 $\begin{array}{cccc} & \text{in } & \text{local coord} \\ & (x', \cdots, x'', z') & \longmapsto & (x', s_i(z), \cdots, x'', s_i(z)) \in \mathbb{T}_{\mathbb{C}} S_i(z) \end{array}$ かりがん 定打 WF. LoE V ± o lie b d l, h: N_R→ R & Σo & cone ← lin. 8'> h(N) C ≥ \$3 € o L= TLOBO(D) e#3 #E. L! big : ct3 Det D(L) := \meMR | \frac{\pi x \in N_R}{\log L^m}, \quad \text{un, X} \ge h(x) \frac{\pi}{2} ~ D(L) ! cpt, 凸, $H^{\circ}(X,L) = \bigoplus X^{m} \pi^{*}H^{\circ}(V,L_{\circ}^{o}X^{m})$

 $H^{\circ}(X, L) = \bigoplus X^{m} \pi^{*}H^{\circ}(V, L_{\circ} RL^{m})$ $H^{\circ}(X, L) = \bigoplus X^{m} \pi^{*}H^{\circ}(V, L_{\circ} RL^{m})$ $H^{\circ}(X, L) = \bigoplus X^{m} (X_{\circ}, X_{\circ}, Z_{\circ}) = \bigoplus (X_{\circ})^{< m - m_{\circ}},$ where $X^{m}(X_{\circ}, X_{\circ}, Z_{\circ}) = \bigoplus (X_{\circ})^{< m - m_{\circ}},$ $(1m_{\circ}Y_{\circ}) = \bigoplus (X_{\circ})^{< m - m_{\circ}},$

where $X^{m}(X, L) = \prod_{j=1}^{n} (\chi_{j}) \stackrel{\text{on-mo}}{=} \chi_{j}$ where $\chi^{m}(X, L) = \prod_{j=1}^{n} (\chi_{j}) \stackrel{\text{on-mo}}{=} \chi_{j}$ and $\chi^{m}(X, L) = \prod_{j=1}^{n} (\chi_{j}) \stackrel{\text{on-mo}}{=} \chi_{j}$

(..., ,

 $J(h_{\min}L)_{X} \qquad (x \in |X'=X'=0|)$ $\langle (X')^{p}(X')^{k} | (p+1, 2+1) \in \{(1, 0), 0\}$ $(t \in |X'=X'=0|)$ $(t \in |X'=X'=0|)$ $(t \in |X'=X'=0|)$ ~) $J(h_{min,L})_X$ ~ Jump (9min, x) = d 4 T2 4pT - 7 p2+ 2 of | P. 20 0 2 2 < P P= 2 mod? Y(15 Cx((Puin,L)= 252+1

No.		
[DFL]	- Denailly. Ein, Lazarsteld.	
	a subadditivity property of Monultiplier ideals	· · · · · · · · · · · · · · · · · · ·
CDMJ .	on compace kähler manifolds	
	Devaily Peravell Schneider.	
		·
	•	
		🥎