

中山による。 birational Zuriski decomposition 8-17年181 (ie.①の逆の反例)

$$F_i := 1Pi \times E_i$$

$$F_2 := E \times fpf$$

$$\Delta := \{(x,x) \in E \times E \mid x \in E\}$$
Vo divisor.

$$L_o := O(2F_1 - 4F_2 + 2\Delta)$$

$$L_1 := (9((a-1)F_1 + (\alpha-1)F_2 + (\alpha+2)\Delta)$$

Main theorem

X=(X', X2): U C V z" o local coord., Xo EU.

$$(0,0,\frac{1}{2})$$
 $\pm h'$) $\mathcal{C}_{min,L}(z^1,z^2,x) = \log \max_{x \in \mathcal{A},\beta \in \mathcal{H}} |z^1|^{2d}|z^2|^{2\beta} + O(1)$

IP(Lo) of the Gmin, c! locally bounded

(i)
$$H = \{(\lambda, \beta) \in \mathbb{R}^2 \mid \lambda, \beta \geq 0, \alpha^2 (\lambda + \beta)^2 = (1 - \lambda)^2 + (1 - \beta)^2 \}$$

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- (ii) Lo, L1, L2の smooth Hermitian metric e^{-q_0} , e^{-q_1} , e^{-q_2} \times (7. V_{\perp} on Euclidean metric e^{-q_0} , e^{-q_1} , e^{-q_2} \times (7. V_{\perp} on Euclidean metric e^{-q_1}) e^{-q_1} Chem connection on e^{-q_1} e^{-q_2} e^{-q_1} e^{-q_2} e^{-q_2} e^{-q_1} e^{-q_2} e^{-q_2} e^{-q_2} e^{-q_1} e^{-q_2} e^{-q_2} e^{-q_1} e^{-q_2} e^{-q_2} e^{-q_2} e^{-q_1} e^{-q_2} $e^{$
- (iii) $n \in \mathbb{N}$ in $\forall L$ $(X_n \xrightarrow{\widetilde{K}_n} X)$; proper modification, $E_A \subset X_n \quad (A: n_{19} \times X_n) = 2$ (B) $V_B \subset X_n \quad (B: (n+1)_{19} n) = 2$ (B) (Z_B^i, Z_B^2, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$ (Z_B^i, Z_B^2, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$ (Z_B^i, Z_B^i, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$ (Z_B^i, Z_B^i, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$ (Z_B^i, Z_B^i, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$ (Z_B^i, Z_B^i, X) ; $(\pi \circ \widetilde{K}_n)^{-1}(U) \cap V_B \not\equiv h \cap g$

$$\underline{N=0} \quad (E_{A} \notin E_{C}) \dots X_{o} := X \quad \widetilde{\pi_{o}} := id .$$

$$V_{1} := P(L_{o}) \quad (Z_{1}^{1}, Z_{1}^{2}) := (Z_{1}^{1}, Z_{2}^{2})$$

$$N=1 \qquad X_{1} := \beta |_{V_{1}} X_{0} \xrightarrow{\mathcal{R}_{1}} X_{0} , \quad \widetilde{\mathcal{R}_{1}} := \mathcal{R}_{1}$$

$$E_{1} \longrightarrow V_{1}$$

$$V_{10} := (\mathcal{R}_{1}^{-1})_{*} \{\mathcal{Z}_{1}^{2} = 0\} \land E_{1}$$

$$V_{11} := (\mathcal{R}_{1}^{-1})_{*} \{\mathcal{Z}_{1}^{2} = 0\} \land E_{1}$$

$$(\mathcal{Z}_{10}^{1}, \mathcal{Z}_{10}^{2}) ; \quad \mathcal{R}_{1} := (\mathcal{Z}_{10}^{1}, \mathcal{Z}_{10}^{2}, \mathcal{Z}_{10}^{2}) := j \gamma \delta \in \mathcal{O}$$

$$(\mathcal{Z}_{11}^{1}, \mathcal{Z}_{12}^{2}) ; \quad \mathcal{R}_{1} := (\mathcal{Z}_{10}^{1}, \mathcal{Z}_{10}^{2}, \mathcal{Z}_{10}^{2}) := j \gamma \delta \in \mathcal{O}$$

$$N=2$$

$$X_{2}!=B|_{V_{10}V_{11}}X_{1}\xrightarrow{\pi_{2}}X_{1}, \widetilde{\pi_{2}}!=\pi_{1}\circ\pi_{2}$$

$$E_{B}\longrightarrow V_{B} (B=10,11)$$

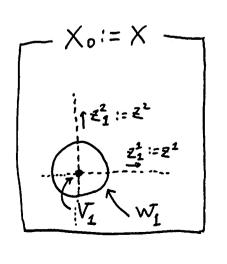
$$V_{100}:=(\widetilde{\pi_{2}}^{-1})_{*}\{2!=0\} \wedge E_{10}$$

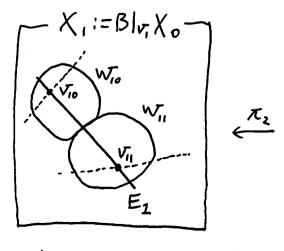
$$V_{101}:=E_{10}\wedge(\pi_{2}^{-1})_{*}E_{1}$$

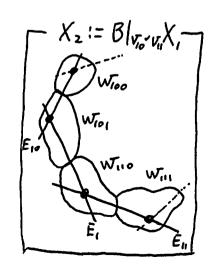
$$V_{110}:=(\pi_{2}^{-1})_{*}E_{1}\wedge E_{11}$$

$$V_{111}:=E_{11}\wedge(\widetilde{\pi_{2}}^{-1})_{*}(2!=0)$$

(以下同樣)







WB := { |ZB | \le 1, |ZB | \le 1 9 ; Vo or neighborhood.