

2915

We can assume that  $\Lambda_0 \in \overline{W} - W$ .

(1)  $\Lambda_0 \in U_I$

$\Rightarrow \dim(\Lambda_0 \cap V_{bi}) \neq \bar{i}$  for some  $\bar{i}$ .

In case  $b_1=2, b_2=5, b_3=7, n=9$

$\Lambda_0$  is expressed as follows.

$$\begin{pmatrix} * & 1 & * & * & 0 & * & 0 & * & * \\ * & 0 & * & * & 1 & * & 0 & * & * \\ * & 0 & * & * & 0 & * & 1 & * & * \end{pmatrix}$$

$$\begin{array}{ccc} U_I & \xrightarrow{\varphi} & \mathbb{C}^{3(9-3)} = \mathbb{C}^{18} \\ \downarrow & & \downarrow \\ \Lambda_0 & \longleftrightarrow & \varphi(\Lambda_0) \end{array}$$

Since  $\Lambda_0 \in \overline{W}$ ,  $\exists \Lambda \in W$  which is very close to  $\Lambda_0$ . We know that  $\varphi(\Lambda)$  has the last  $k \times (k+a_i-\bar{i})$  minor of rank exactly  $k-\bar{i}$ . But since  $\varphi(\Lambda_0)$  is very close to  $\varphi(\Lambda)$ , the last  $k \times (k+a_i-\bar{i})$  minor has rank at least  $k-\bar{i}$ .  $\Rightarrow \dim(\Lambda_0 \cap V_{bi}) \leq \bar{i} \Rightarrow$  Strange

$\Rightarrow \dim(\Lambda \cap V_{b_1})=1 \Rightarrow \exists$  a set of holomorphic functions.

$\dim(\Lambda \cap V_{b_2})=2 \Rightarrow$  "

$\dim(\Lambda \cap V_{b_3})=3 \Rightarrow$  "

$\Rightarrow W$  is an analytic subvariety of  $U_I$

$\Rightarrow W$  is closed in  $U_I \Rightarrow (\overline{W} \cap W^c) \cap U_I$

$\Rightarrow \overline{W} \cap U_I = W \Rightarrow (\overline{W} - W) \cap U_I = W \cap W^c \cap U_I = \emptyset$

(2)  $\Lambda_0 \notin U_I \Rightarrow \exists J$  s.t.  $\Lambda_0 \in U_J$ .

$\Lambda_0$  is expressed as follows.

$$\begin{pmatrix} * & * & 1 & * \\ * & * & 0 & 1 \end{pmatrix} \quad \text{Nonsense!}$$