On $U_0 = (z_0 \neq 0)$ $\quad U_0 \times \mathbb{C} \longrightarrow J|_{U_0} \subset \mathbb{C}^3$

$$([z_0, z_1, z_2], \lambda_1) \longmapsto (\lambda_1(1, \tfrac{z_1}{z_0}, \tfrac{z_2}{z_0}))$$

On, $U_1 = (z_1 \neq 0)$ $\quad U_1 \times \mathbb{C} \longrightarrow J|_{U_1}$

$$([z_0, z_1, z_2], \lambda_2) \longmapsto (\lambda_2(\tfrac{z_0}{z_1}, 1, \tfrac{z_2}{z_1}))$$

On U_2 $(z_2 \neq 0)$ $\quad U_2 \times \mathbb{C} \longrightarrow J|_{U_2}$

$$([z_0, z_1, z_2], \lambda_3) \longmapsto (\lambda_3(\tfrac{z_0}{z_2}, \tfrac{z_1}{z_2}, 1))$$

$\Rightarrow$ If $z_0 \neq 0 \neq z_1$, at point $[z_0, z_1, z_2]$,

$$(1, \tfrac{z_1}{z_0}, \tfrac{z_2}{z_0}) \xrightarrow[\times \frac{z_0}{z_1}]{} (\tfrac{z_0}{z_1}, \underset{\overset{\shortparallel}{1}}{\tfrac{z_1}{z_1}}, \tfrac{z_2}{z_1})$$

On $U_0 \cap U_1$, $g_{1,0} : U_0 \cap U_1 \xrightarrow[\times \frac{z_0}{z_1}]{} \mathbb{C}$

$$g_{1,0}([z_0, z_1, z_2]) = \frac{z_0}{z_1}$$

$$g_{0,1}([z_0, z_1, z_2]) = \frac{z_1}{z_0}$$

On $U_1 \cap U_2$, $g_{2,1}([z_0, z_1, z_2]) = \dfrac{z_1}{z_2} = g_{1,2}^{-1}$

On $U_0 \cap U_2$ $\quad g_{2,0}([z_0, z_1, z_2]) = \dfrac{z_0}{z_2} = g_{0,2}^{-1}$

Thus define $e_0 : U_0 \longrightarrow \mathbb{C}$ by

$$e|_{U_0} = \overset{\shortparallel}{e_0} : [(z_0, z_1, z_2)] \longmapsto 1$$

$$e_1 : U_1 \longrightarrow \mathbb{C}$$

$$[(z_0, z_1, z_2)] \longmapsto \frac{z_0}{z_1} = g_{1,0}$$

$$e_2 : U_2 \longrightarrow \mathbb{C}$$

$$[(z_0, z_1, z_2)] \longmapsto \frac{z_0}{z_2} = g_{2,0}$$

$\Rightarrow$ $e_\alpha = g_{\alpha\beta} e_\beta$ $\Rightarrow$ $\{e_\alpha\}$ defines a global meromorphic section