

\mathbb{CP}^1 \mathbb{C}

$$\phi_1([z_0 : z_1]) = \frac{z_0}{z_1}$$

 $[1 : 0]$ $[z_0 : z_1]$ $z = \frac{z_0}{z_1}$ $\Re z$ $\Im z$

$$U_1 = \{[z_0 : z_1] \mid z_1 \neq 0\}$$
