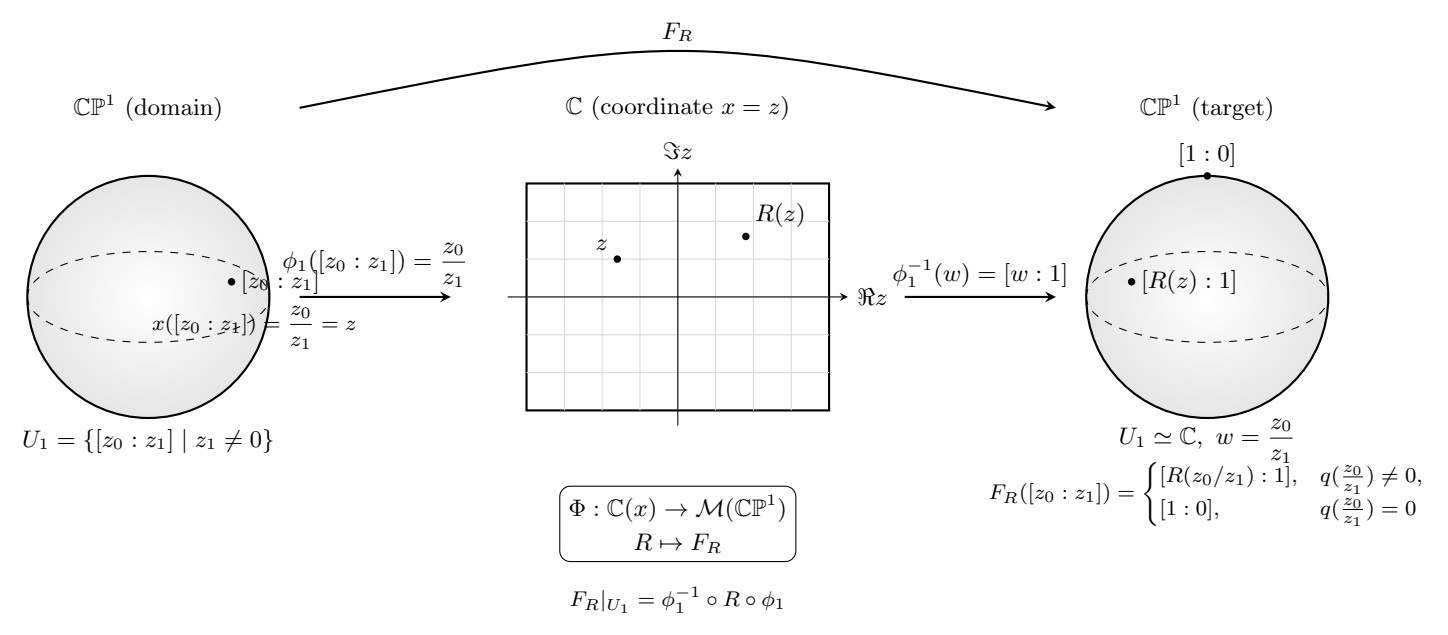
F_R
$\mathbb{CP}^1$ (domain)
$\mathbb{C}$ (coordinate $x = z$)
$\mathbb{CP}^1$ (target)
$\Im z$
$\Re z$
$R(z)$
z
$[1:0]$
$[R(z):1]$
$[z_0 : z_1]$
$\phi_1([z_0 : z_1]) = \frac{z_0}{z_1}$
$x([z_0 : z_1]) = \frac{z_0}{z_1} = z$
$\phi_1^{-1}(w) = [w : 1]$
$U_1 = \{[z_0 : z_1] \mid z_1 \neq 0\}$
$U_1 \simeq \mathbb{C},\ w = \frac{z_0}{z_1}$
$F_R([z_0 : z_1]) = \begin{cases} [R(z_0/z_1) : 1], & q(\frac{z_0}{z_1}) \neq 0, \\ [1:0], & q(\frac{z_0}{z_1}) = 0 \end{cases}$
$\Phi : \mathbb{C}(x) \to \mathcal{M}(\mathbb{CP}^1)$
$R \mapsto F_R$
$F_R|_{U_1} = \phi_1^{-1} \circ R \circ \phi_1$