$$({}^3\backslash\{(0,-i)\},\alpha_3) \to ({}^3, dz' + x'dy' - y'dx') \cong \times; (z_1, z_2) \mapsto \left(\frac{i}{-}\right.$$

[RGB]0,0,135$z_1 i + z_2, \frac{-Re(z_2)}{|i+z_2|^2}$;

$(\cos\theta, \sin\theta) \mapsto \left(\frac{\cos\theta}{1+\sin^2\theta}, \frac{\cos\theta\sin\theta}{1+\sin^2\theta}, \frac{-\sin\theta}{1+\sin^2\theta}\right).$