

$${}^{\ell}\mathbb{C}^{\mathbb{C}}_r\ltimes G_{\mathbb{R}}\rightarrow {}^{\ell}\mathbb{C}^{\mathbb{C}}_r$$

$$\mathbb{C}^{\mathbb{C}}_r\ltimes G_{\mathbb{R}}\rightarrow \mathbb{C}^{\mathbb{C}}_r$$

$$g_{\mathbb{R}}=\frac{m}{q}\left|\begin{array}{c} p \\ n \end{array}\right.$$

$$\mathring{g}_{\mathbb{R}} J g_{\mathbb{R}} = J = \frac{0}{1}\left|\begin{array}{c} 1 \\ 0 \end{array}\right.$$

$$\eta|\xi\frac{m}{q}\left|\begin{array}{c} p \\ n \end{array}\right. = [\eta m + \xi q \quad \eta p + \xi n]$$

$$\frac{1}{-1}\left|\begin{array}{c} 1 \\ 1 \end{array}\right.\frac{m}{q}\left|\begin{array}{c} p \\ n \end{array}\right.\frac{1}{1}\left|\begin{array}{c} -1 \\ 1 \end{array}\right.=\frac{m+n+p+q}{n-m-p+q}\left|\begin{array}{c} n-m+p-q \\ m+n-p-q \end{array}\right.=\frac{a}{\bar{b}}\left|\begin{array}{c} b \\ \bar{a} \end{array}\right.$$

$$\frac{1}{-1}\left|\begin{array}{c} 1 \\ 1 \end{array}\right.\frac{m}{-q}\left|\begin{array}{c} -p \\ n \end{array}\right.\frac{1}{1}\left|\begin{array}{c} -1 \\ 1 \end{array}\right.=\frac{m+n-p-q}{n-m+p-q}\left|\begin{array}{c} n-m-p+q \\ m+n+p+q \end{array}\right.=\frac{\bar{a}}{b}\left|\begin{array}{c} \bar{b} \\ a \end{array}\right.$$

$$\eta|\xi\frac{m}{q}\left|\begin{array}{c} p \\ n \end{array}\right. = \zeta a + \bar{\zeta} \bar{b}$$

$$\eta|\xi\frac{m}{q}\left|\begin{array}{c} p \\ n \end{array}\right. = [\eta m + \xi q \quad \eta p + \xi n] = \underline{\eta m + \xi q} + \underline{\eta p + \xi n}$$

$$= \eta\underline{m+p} + \xi\underline{q+n} = \eta\underline{a-\bar{b}} + \xi\underline{a+\bar{b}} = \xi + \eta a + \xi - \eta \bar{b} = \zeta a + \bar{\zeta} \bar{b}$$

$$\eta|\xi\frac{m}{-q}\left|\begin{array}{c} -p \\ n \end{array}\right. = \zeta \bar{a} + \bar{\zeta} b$$