



$${}^y E_{c(w)}^{\nu} = e^{\nu \overleftarrow{yc(w)}} \Rightarrow 2^{n/4} \overleftarrow{I + \dot{w}^{-1/2}} e_{c(w)}^{\nu} \in {}^c S_1^{\mathbb{R}} \triangleleft_{\mathbb{C}}^2 \mathbb{C}$$

$$\xi \overleftarrow{e_{c(w)}^{\nu}} = \xi e_{\xi c(w)}^{\nu} \Rightarrow e_{c(w)}^{\nu} \in \mathbb{R}^n \triangleleft_{\mathbb{C}}^2 \mathbb{C}$$

$$\zeta \overleftarrow{e_w^{\nu/2}} = \zeta e_{\zeta w}^{\nu/2} \Rightarrow e_w^{\nu/2} \in \mathbb{C}^n \triangleleft_{\mathbb{C}}^2 \mathbb{C}$$

$${}^z \Delta_w^{-1/2} = \overleftarrow{I - z\dot{w}^{-1/2}} \Rightarrow \Delta_w^{-1/2} \in D \triangleleft_{\mathbb{C}}^{1/2} \mathbb{C}$$

$$\begin{aligned}
& \mathcal{B} 2^{n/4} \xleftarrow{-1/2} I + \bar{w}^* \mathbf{e}_{c(w)}^\nu = \mathbf{e}_w^{\nu/2} \\
& {}_c S_1^{\mathbb{R}} \xrightarrow[\succ]{C} {}_U S_1^{\mathbb{R}}: \quad {}^x C = \overline{\frac{-1}{x+e}} \underline{x-e} \\
& \mathbb{R}^n / 2 \xrightarrow[\succ]{Q} {}_c S_1^{\mathbb{R}}: \quad {}^\xi Q = \xi \bar{\xi} \geq 0 \\
& {}^\zeta \overline{\mathcal{B}\eta} = \mathcal{B}_\zeta \overline{\eta} = 2^{n/4} \int_{d\xi}^{\mathbb{R}^n} {}^\zeta \mathcal{B}_\xi \overline{\eta}: \quad {}^\zeta \mathcal{B}_\xi = \zeta \mathbf{e}_{\bar{\zeta}}^{-\nu/2} \xi \mathbf{e}_\xi^{-\nu/2} \zeta \mathbf{e}_\xi^{2\nu} \\
& {}^z \overline{\mathcal{I}\eta} = \mathcal{I}_z \overline{\eta}: \quad {}^\zeta \mathcal{I}_z = \overline{\pi/\nu}^{n/2} \zeta \mathbf{e}_z^{\nu/2} \\
& {}^z \overline{\mathcal{I}\mathcal{B}\eta} = {}^z \overline{\mathcal{I}\mathcal{B}\eta} = \mathcal{I}_z \overline{\mathcal{B}\eta} \underset{\text{unit}}{=} \bar{\mathcal{B}}^{-1} \mathcal{I}_z \overline{\eta} \\
& {}^\xi \overline{\mathcal{B}\mathcal{I}_z} = 2^{n/4} \xleftarrow{-1/2} \frac{-1}{e+z} \xi \mathbf{e}_{\frac{z+e}{-1} z - e \xi}^\nu \quad \xi \mathbf{e}_\xi^{\nu/2} = 2^{n/4} \xleftarrow{-1/2} \frac{-1}{e+z} \mathbf{e}^\nu \overline{\frac{-1}{z+e} z - e \xi} \xi, \mathbf{e}^\nu \overline{\xi}^{t/2} \\
& {}^z \mathcal{E}_x = \overline{\frac{-1}{z+e} z - e \frac{-1}{x+e} x - e} \\
& {}^z F_t = \exp \frac{\nu}{2} \overline{z \overline{\eta} t \bar{z}} \in \mathbb{C}_{\text{ev}}^n \triangleleft_{\bar{w}} \mathbb{C} \\
& \eta \overline{\eta} = e^{-\nu w \overline{\eta} w} \int_{dw}^{\mathbb{C}^n} {}^z \bar{\eta} {}^z \eta \\
& {}^s \Phi_t = \det \underline{1-s\bar{t}}^{-1/2} \in S_1^{\mathbb{C}} \triangleleft_{\bar{w}} \mathbb{C} \\
& F_s \overline{F}_t = {}^s \Phi_t = \Phi_s \mathbb{C} \Phi_t
\end{aligned}$$

$$\begin{aligned}
& e^{-\nu w \overline{\eta} w} \int_{dw}^{\mathbb{C}^n} \exp \frac{\nu}{2} \overline{w \overline{\eta} A w + \bar{w} \overline{\eta} \bar{D} w + 2u \overline{\eta} \bar{w} + 2v \overline{\eta} w} \\
& = \det \underline{I-AD}^{-1/2} \exp \frac{\nu}{2} \left(\overline{u \overline{\eta} D \underline{I-AD}^{-1} u} + \overline{u \overline{\eta} D \underline{I-AD}^{-1} u} + \overline{u \overline{\eta} D \underline{I-AD}^{-1} u} + \overline{u \overline{\eta} D \underline{I-AD}^{-1} u} \right)
\end{aligned}$$