

$$\mathbb{C}^{1|1}\begin{array}{c}\diagdown_{\omega}\mathbb{C}=\frac{^{z|\zeta}\mathfrak{I}=^z_0\mathfrak{I}+\zeta^z_1\mathfrak{I}}{\mathbb{C}}_0\mathfrak{I}\in\begin{array}{c}\diagdown_{\omega}\mathbb{C}\ni_1\mathfrak{I}\end{array}\end{array}$$

$$\int\limits_{d\zeta}^{\mathbb{C}^{0|1}}\bar{\zeta}\,\zeta=1$$

$$\nu_{z|\zeta}=\frac{dzd\zeta}{\pi}\underbrace{-\nu z\bar{z}+\zeta\bar{\zeta}}_{\mathcal{E}}=\frac{dzd\zeta}{\pi}\underbrace{-\nu\zeta\bar{\zeta}}_{\mathcal{E}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}=\frac{dzd\zeta}{\pi}\underbrace{1-\nu\zeta\bar{\zeta}}_{\mathcal{E}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}$$

$$\int\limits_{dz/\pi}^{\mathbb{C}^{1|0}}\int\limits_{d\zeta}^{\mathbb{C}^{0|1}}\underbrace{-\nu z\bar{z}+\zeta\bar{\zeta}}_{\mathcal{E}}=\int\limits_{dz/\pi}^{\mathbb{C}^{1|0}}\int\limits_{d\zeta}^{\mathbb{C}^{0|1}}\underbrace{1-\nu\zeta\bar{\zeta}}_{\mathcal{E}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}=\int\limits_{dz/\pi}^{\mathbb{C}^{1|0}}\int\limits_{d\zeta}^{\mathbb{C}^{0|1}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}-\nu\int\limits_{dz/\pi}^{\mathbb{C}^{1|0}}\int\limits_{d\zeta}^{\mathbb{C}^{0|1}}\zeta\bar{\zeta}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}$$

$$=0+\nu\int\limits_{dz/\pi}^{\mathbb{C}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}=\nu\int\limits_{2rdr}^{0|\infty}\int\limits_{dt/2\pi}^{0|2\pi}\underbrace{-\nu r^2}_{\mathcal{E}}=\nu\int\limits_{d\varrho}^{0|\infty}\underbrace{-\nu\varrho}_{\mathcal{E}}=\nu\left[\frac{-\nu\varrho}{-\nu}\mathcal{E}\right]_{\varrho=0}^{\varrho=\infty}=-\left[\frac{-\nu\varrho}{-\nu}\mathcal{E}\right]_{\varrho=0}^{\varrho=\infty}=1$$

$${}^{z|\zeta}\mathcal{P}_{w|\omega}={}^{\nu z\bar{w}+\zeta\bar{\omega}}\mathcal{E}$$

$${}^{z|\zeta}\mathcal{P}_{w|\omega}=\sum_{0\leqslant n}\overline{z^n}\,\overline{\bar{w}^n}+\sum_{0\leqslant n}\overline{\zeta z^n}\,\overline{\bar{\omega}\bar{w}^n}=\sum_{0\leqslant n}\frac{\nu^n}{n!}z^n\,\bar{w}^n+\sum_{0\leqslant n}\frac{\nu^{n+1}}{n!}z^n\zeta\bar{w}^n\bar{\omega}$$

$$={}^{\nu z\bar{w}}\mathcal{E}+\nu\zeta\bar{\omega}\,{}^{\nu z\bar{w}}\mathcal{E}=\underbrace{1+\nu\zeta\bar{\omega}}_{\mathcal{E}}\,{}^{\nu z\bar{w}}\mathcal{E}={}^{\nu\zeta\bar{\omega}}\mathcal{E}\,{}^{\nu z\bar{w}}\mathcal{E}={}^{\nu z\bar{w}+\zeta\bar{\omega}}\mathcal{E}$$

$$\mathcal{P}^\nu \mathbb{J}=P^{\nu\;00}\mathbb{J}-\frac{1}{\nu}P^{\nu\;11}\mathbb{J}+\zeta P^{\nu\;10}\mathbb{J}$$

$$d\mu_{z|\zeta}^\nu=\frac{dzd\zeta}{\pi}\underbrace{1-\nu\zeta\bar{\zeta}}_{\mathcal{E}}\underbrace{-\nu z\bar{z}}_{\mathcal{E}}$$

$${}^{z|\zeta}\mathcal{K}_{w|\omega}^\nu=\underbrace{1+\nu\zeta\bar{\omega}}_{\mathcal{E}}\,{}^{\nu z\bar{w}}\mathcal{E}$$

$${}^{z|\zeta}\widetilde{\mathcal{P}^\nu\mathbb{J}}=\int\limits_{dw}^{\mathbb{C}^{1|0}}\int\limits_{d\omega}^{\mathbb{C}^{0|1}}{}^{z|\zeta}\mathcal{K}_{w|\omega}^\nu\,{}^{w|\omega}\mathbb{J}$$

$${}^z\widetilde{P^\nu\mathbb{J}}=\int\limits_{\nu dw/\pi}^{\mathbb{C}^{1|0}}\underbrace{-\nu w\bar{w}}_{\mathcal{E}}\mathcal{E}\,{}^{\nu z\bar{w}}\mathcal{E}\,{}^w\mathbb{J}$$

$$\begin{aligned}
& \int_{d\omega}^{\mathbb{C}^{0|1}} \underbrace{1 - \nu \zeta \bar{\zeta}}_{\mathcal{P}^\nu \mathbb{J}} \underbrace{1 + \nu \zeta \bar{\omega}}_{\mathcal{E}^{\nu z \bar{w}}} \overbrace{\mathbb{J}^{00} + \omega^{10} \mathbb{J} + \bar{\omega}^{01} \mathbb{J} + \omega \bar{\omega}^{11} \mathbb{J}}^{00} \\
&= \int_{d\omega}^{\mathbb{C}^{0|1}} \underbrace{1 + \nu \zeta \bar{\omega} - \nu \zeta \bar{\zeta}}_{\mathcal{P}^\nu \mathbb{J}} \overbrace{\mathbb{J}^{00} + \omega^{10} \mathbb{J} + \bar{\omega}^{01} \mathbb{J} + \omega \bar{\omega}^{11} \mathbb{J}}^{00} = \nu^{00} \mathbb{J} + \nu \zeta^{10} \mathbb{J} - \bar{\omega}^{11} \mathbb{J} \\
&\Rightarrow {}^z \widehat{\zeta \mathcal{P}^\nu \mathbb{J}} = \int_{dw/\pi}^{\mathbb{C}^{1|0}} {}^{-\nu w \bar{w}} \mathcal{E}^{\nu z \bar{w}} \mathcal{E}^{\nu^{00} \mathbb{J} + \nu \zeta^{10} \mathbb{J} - \bar{\omega}^{11} \mathbb{J}} \\
&= \int_{\nu dw/\pi}^{\mathbb{C}^{1|0}} {}^{-\nu w \bar{w}} \mathcal{E}^{\nu z \bar{w}} \mathcal{E}^{\nu^{00} \mathbb{J} + \zeta^{10} \mathbb{J} - \frac{1}{\nu} \bar{\omega}^{11} \mathbb{J}} = {}^z \widehat{P^{\nu 00} \mathbb{J}} - \frac{1}{\nu} {}^z \widehat{P^{\nu 11} \mathbb{J}} + \zeta {}^z \widehat{P^{\nu 10} \mathbb{J}} \\
&\quad \mathcal{P}^\nu \widehat{{}_0 \mathfrak{I} + \zeta {}_1 \mathfrak{I}} = {}_0 \mathfrak{I} + \zeta {}_1 \mathfrak{I} \\
&\quad \text{LHS} = P^\nu {}_0 \mathfrak{I} + \zeta P^\nu {}_1 \mathfrak{I} = \text{RHS} \\
\mathfrak{I} &= \sum_{0 \leq n} z^n a_n + \zeta z^n b_n = a_0 + \sum_{1 \leq n} z^n a_n + \zeta z^n b_n = a_0 + \sum_{1 \leq n} z^n a_n + \zeta z^n b_n \\
&\quad \mathbb{C}^{1|1} \xrightarrow[\mathbb{C}]{} \left\{ \begin{array}{l} (az + b\zeta)^n \\ a \in \mathbb{C} \ni b \end{array} \right\} = \mathbb{C}^{1|1} \xrightarrow[\mathbb{C}]{} \\
S &:= \sum_{0 \leq n} (-1)^n \mathcal{P}_n \mathcal{S}({}_0 \mathfrak{I} + \zeta {}_1 \mathfrak{I}) = S {}_0 \mathfrak{I} - \zeta S {}_1 \mathfrak{I} \\
\mathcal{S} &= \begin{array}{c|c} S & 0 \\ \hline 0 & -S \end{array} \\
\mathfrak{I} &= \sum_{0 \leq n} z^n a_n + \zeta z^n b_n = a_0 + \sum_{1 \leq n} z^n a_n + \zeta z^n b_n = a_0 + \sum_{1 \leq n} z^n a_n + \zeta z^n b_n
\end{aligned}$$