

$$\begin{array}{ccc} \mathbb{C}^{1|1}\diagup\!\!\!\diagup\mathbb{C} \\ \mathbb{C}_{\vee}^{1|1} \\ \downarrow \left(\right) \text{Toep} \\ \Psi|\mathbb{C}^{1|1}\diagdown\!\!\!\diagdown\check{\mathbb{C}} \end{array}$$

$$\mathrm{allg}~\overline{\P}=\int\limits_{dw/\pi}^{\mathbb{C}^{1|0}}\overbrace{1-w\bar{w}}^{-1}\int\limits_{d\eta}^{\mathbb{C}^{0|1}}\underbrace{1+\frac{\eta\bar{\eta}}{1-w\bar{w}}}_{\underbrace{\mathcal{w}^{00}\mathbb{J}+\eta^{10}_w\mathbb{J}+\bar{\eta}^{01}_w\mathbb{J}+\bar{\eta}\eta^{11}_w\mathbb{J}}}\overbrace{w|\eta}^{z|\zeta}\widehat{\P}$$

$$\frac{\nu}{^0J_0 + \omega^1J_0 + \bar{\omega}^0J_1 + \bar{\omega}\omega^1J_1} = \frac{\overset{\nu}{\overbrace{^0J_0 + \frac{1-w\bar{w}}{\nu-1}J_1}}}{\underset{\nu+1}{\underbrace{^1J_0}_{\nu}}} \left| \begin{array}{c} \overset{\nu}{\overbrace{\frac{1-w\bar{w}}{\nu-1}J_1}}^{\nu+1} \\ \frac{1-w\bar{w}}{\nu-1}J_1 \\ \frac{\nu+1}{\nu} \\ ^0J_0 \end{array} \right.$$

$$\frac{\nu}{^0J_0 + \omega^1J_0 + \bar{\omega}^0J_1 + \bar{\omega}\omega^1J_1} \underline{\gamma^0 + \omega\gamma^1} = \frac{z|\zeta|}{^0J_0 + \omega^1J_0 + \bar{\omega}^0J_1 + \bar{\omega}\omega^1J_1} \underline{\gamma^0 + \omega\gamma^1}$$

$$= \int_{dw/\pi}^{\overline{^1C_1}} \int_{d\omega}^{|0C_{|1}} \frac{\nu-1}{\frac{1-w\bar{w}-\omega\bar{\omega}}{1-z\bar{w}-\zeta\bar{\omega}}} \underline{^0J_0 + \omega^1J_0 + \bar{\omega}^0J_1 + \bar{\omega}\omega^1J_1} \underline{\gamma^0 + \omega\gamma^1}$$

$$= \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-1}{\frac{1-w\bar{w}}{1-z\bar{w}}} \int_{d\omega}^{|0C_{|1}} \frac{(\nu-1)\bar{\omega}\omega}{1-w\bar{w}} \frac{1+\frac{\nu\zeta\bar{\omega}}{1-z\bar{w}}}{1-z\bar{w}} \underline{^0J_0}^w\gamma^0 + \omega \underline{^1J_0}^w\gamma^0 + \underline{^0J_0}^w\gamma^1 + \bar{\omega} \underline{^0J_1}^w\gamma^0 + \bar{\omega}\omega \underline{^1J_1}^w\gamma^0 + \underline{^0J_1}^w\gamma^1$$

$$= \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-1}{\frac{1-w\bar{w}}{1-z\bar{w}}} \int_{d\omega}^{|0C_{|1}} \bar{\omega}\omega \underline{^1J_1}^w\gamma^0 + \underline{^0J_{1w}}^w\gamma^1 + \frac{\nu\zeta\bar{\omega}}{1-z\bar{w}} \omega \underline{^1J_0}^w\gamma^0 + \underline{^0J_0}^w\gamma^1 + \frac{(\nu-1)\bar{\omega}\omega}{1-w\bar{w}} \underline{^0J_0}^w\gamma^0$$

$$= \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-1}{\frac{1-w\bar{w}}{1-z\bar{w}}} \underline{\frac{^1J_1}w\gamma^0 + \frac{^0J_{1w}}w\gamma^1} + \frac{\nu\zeta\bar{\omega}}{1-z\bar{w}} \underline{\frac{^1J_0}w\gamma^0 + \frac{^0J_0}w\gamma^1} + \frac{\nu-1}{1-w\bar{w}} \underline{^0J_0}^w\gamma^0$$

$$= \nu - 1 \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-2}{\frac{1-w\bar{w}}{1-z\bar{w}}} \underline{^0J_0}^w\gamma^0 + \nu\zeta \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-1}{\frac{1-w\bar{w}}{1-z\bar{w}}} \underline{^1J_0}^w\gamma^0 + \underline{^0J_0}^w\gamma^1 + \int_{dw/\pi}^{\overline{^1C_1}} \frac{\nu-2}{\frac{1-w\bar{w}}{1-z\bar{w}}} \underline{^1J_1}^w\gamma^0 + \underline{^0J_{1w}}^w\gamma^1 =$$

$$= \frac{z}{^0J_0}\frac{\nu}{\gamma^0} + \zeta \frac{z}{^1J_0}\frac{\nu+1}{\gamma^0 + ^0J_0\gamma^1} + \frac{1}{\nu-1} \frac{z}{^1J_1}\frac{\nu}{\underline{1-w\bar{w}} \underline{^1J_1\gamma^0 + ^0J_1\gamma^1}} = \frac{\overset{\nu}{\overbrace{^0J_0 + \frac{1-w\bar{w}}{\nu-1}J_1}}}{\underset{\nu+1}{\underbrace{^1J_0}_{\nu}}} \left| \begin{array}{c} \overset{\nu}{\overbrace{\frac{1-w\bar{w}}{\nu-1}J_1}}^{\nu+1} \\ \frac{1-w\bar{w}}{\nu-1}J_1 \\ \frac{\nu+1}{\nu} \\ ^0J_0 \end{array} \right. \frac{^0\gamma}{^1\gamma}$$

$$\frac{\nu}{^0J_0 + \omega_w^1J_0 + \bar{\omega}_w^0J_1 + \bar{\omega}\omega_w^1J_1} = \frac{\nu}{^0J_0 + \frac{1-w\bar{w}}{\nu-1}^1J_1} + \zeta \frac{\nu+1}{^1J_0}$$

$$\Psi| \overline{^1\mathbb{C}_{1|1}}_{\Delta_\omega^2} \subset \frac{\overline{\Psi}| \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C}}{\nu+1 \mathcal{K}^\nu} \Bigg| \frac{\nu \mathcal{K}^{\nu+1}}{\overline{\Psi}| \overline{^1\mathbb{C}_1}_{\Delta_\omega^{\nu+1}} \mathbb{C}}$$

$$\begin{aligned} \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C} &\xleftarrow[\text{comp}]{\overbrace{1-w\bar{w}J_1^1}^{\nu}} \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C} \\ \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C} &\xleftarrow[\text{comp}]{\overbrace{1-w\bar{w}J_1^0}^{\nu+1}} \overline{^1\mathbb{C}_1}_{\Delta_\omega^{\nu+1}} \mathbb{C} \\ \overline{^1\mathbb{C}_1}_{\Delta_\omega^{\nu+1}} \mathbb{C} &\xleftarrow[\text{comp}]{\overbrace{J_0^1}^{\nu+1}} \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C} \end{aligned}$$

$$\begin{array}{ccc} & & \overline{^1\mathbb{C}_{1|1}}_{\Delta_\omega^2} \subset \frac{\overline{\Psi}| \overline{^1\mathbb{C}_1}_{\Delta_\omega^\nu} \mathbb{C}}{\nu+1 \mathcal{K}^\nu} \Bigg| \frac{\nu \mathcal{K}^{\nu+1}}{\overline{\Psi}| \overline{^1\mathbb{C}_1}_{\Delta_\omega^{\nu+1}} \mathbb{C}} \\ & \nearrow s\sigma_\nu & \\ \mathbb{C} & \nwarrow s\sigma_\nu & \cap \\ & & \end{array}$$

$${}^s\sigma_\nu \frac{\mathfrak{l}}{\mathfrak{l}} \Big| \frac{\mathfrak{l}}{\mathfrak{l}} = {}^s\sigma_\nu \mathfrak{l}$$

$${}^s\sigma_\nu \overline{J_0^0 + \omega J_0^1 + \bar{\omega} J_1^0 + \bar{\omega}\omega J_1^1}^\nu = {}^sJ_0^0$$

$$\begin{aligned} \text{LHS} &= {}^s\sigma_\nu \frac{\overbrace{J_0^0 + \frac{1}{\nu-1} \underbrace{1-w\bar{w}} J_1^1}^{\nu+1}}{\overbrace{J_0^1}^{\nu}} \Bigg| \frac{\overbrace{1}^{\nu} \overbrace{1-w\bar{w}} J_1^0}{{}^s\overbrace{J_0^0}^{\nu+1}}^{\nu+1} \\ &= {}^s\sigma_\nu \underbrace{J_0^0 + \frac{1}{\nu-1} \underbrace{1-w\bar{w}} J_1^1}_{\nu} = \text{RHS} \end{aligned}$$

$$\bigcap_s^{\partial \overline{C_1}} \text{Ker } {}^s\sigma_\nu = \Psi | \overline{C_{1|1}} \Delta_\omega^2 \mathbb{C}$$