

$$\overbrace{\gamma \mathfrak{X} \gamma}^{z\bar{w}} = {}_z \gamma {}_w \gamma$$

$${}^0 \overbrace{\mathcal{P}_\nu \mathfrak{J}} = \int_{dz}^B {}^z \Delta_z^{\nu-p} {}_{z:0} \mathfrak{J}$$

$$y = \underline{z:0}$$

$$x = \underline{z:\bar{z}}$$

$${}^y \gamma_x = \overbrace{{}^0 \gamma_z \cdot \overline{{}^0 \gamma_z}} = \overbrace{z:z + \omega_{-z} {}^z B_z^{1/2}}$$

$$\underline{\dot{z}:\dot{w}} \underline{\gamma} (0:y) = \underline{\dot{z}:\dot{z} + \dot{w} - \dot{z} Q_\omega} = \dot{z} \left| \dot{w} \frac{I}{0} \middle| \frac{I - Q_\omega}{I} \right. \Rightarrow \overline{\underline{\gamma} (0:y)} = 1$$

$${}^{0:\bar{w}} \Delta_{0:\bar{w}}^{\nu-p} {}^{0:\bar{w}} \overline{\Delta_{\omega:\bar{0}}^{-\nu}} = \overbrace{{}^0 \Delta_0^\omega \Delta_\omega}^{\nu-p} \overbrace{{}^0 \Delta_\omega^\omega \Delta_0}^{-\nu} = \omega \Delta_\omega^{\nu-p}$$

$$\Rightarrow \text{LHS} = \int_{dy}^{\pi^{-1}(0)} {}^y \Delta_y^{\nu-p} {}^y \overline{\Delta_{\bar{y}}^{-\nu}} \overline{\underline{\gamma} (0:y)} {}_y \mathfrak{J} = \text{RHS}$$

$$\partial_{\mathbb{C}}^{\alpha\bar{\gamma}} \overline{\partial_{\mathbb{C}}^{\beta\bar{\delta}}} \overbrace{\gamma \mathfrak{X} \gamma} = \overbrace{\partial^\alpha \bar{\partial}^\beta \gamma} \mathfrak{X} \overbrace{\bar{\partial}^\gamma \partial^\delta \gamma}$$

$$\overbrace{\partial_{\mathbb{C}}^{\alpha\bar{\gamma}} \overline{\partial_{\mathbb{C}}^{\beta\bar{\delta}}} \overbrace{\gamma \mathfrak{X} \gamma}^{z\bar{w}}} = \overbrace{\partial^\alpha \bar{\partial}^\beta \gamma}^z \overbrace{\bar{\partial}^\gamma \partial^\delta \gamma}^w$$

$$\partial E_\partial^\mu = \partial u_i^\mu \partial \bar{u}_i^\mu = \alpha c_\beta^\mu \partial^\alpha \bar{\partial}^\beta$$

$${}_{0\bar{a}}P^\mu_{0\bar{b}} = {}_b c_a^\mu$$

$$\overline{{}^{z\bar{z}}\Lambda \times \gamma_1 \gamma_2} = {}^0\gamma_1 \overline{{}^z\gamma_2}$$

$$\overline{{}^0\mathcal{P}_\nu \gamma_1 \gamma_2} = \int_{d\omega}^B \omega \Delta_\omega^{\nu-p} {}^0\gamma_1 \omega \gamma_2 = {}^0\gamma_1 \int_{d\omega}^B \omega \Delta_\omega^{\nu-p} \omega \gamma_2 = {}^0\gamma_1 \frac{1}{(\nu)_\mu} \overline{{}^0\partial E_\partial^\mu \gamma_2}$$

$$\overline{{}_b c_a^\mu \partial_{\mathbb{C}}^{0\bar{a}} \partial_{\mathbb{C}}^{0\bar{b}} \gamma_1 \gamma_2} = \overline{{}_b c_a^\mu \partial_1^{0\bar{a}} \partial_2^{\bar{a}\gamma} \partial_1^{0\bar{b}} \partial_2^b \gamma_1 \gamma_2} = {}^0\gamma_1 \overline{{}_b c_a^\mu \partial^{\delta\bar{\delta}} \gamma_2}$$

$$= {}^0\gamma_1 \overline{{}^0\partial E_\partial^\mu \gamma_2} = \overline{{}^0 E_{\mathbb{C}}^\mu \Lambda \times \gamma_1 \gamma_2} = \overline{{}_{0\bar{a}} M^\mu_{0\bar{b}} \partial_{\mathbb{C}}^{0\bar{a}} \partial_{\mathbb{C}}^{0\bar{b}} \gamma_1 \gamma_2}}$$

$$\overline{{}^0\partial^\alpha \gamma_z \times \bar{\gamma}} = \sum_{i \leq \alpha} \overline{{}^z \gamma_i^\alpha \partial^i \bar{\gamma}}$$

$$\overline{{}^z \mathfrak{R}_z^\mu \bar{\gamma}} = \alpha c_\beta^\mu \overline{{}^z \gamma_z^\alpha \partial^z \bar{\gamma}^\beta \partial^i \bar{\gamma}}$$

$$\overline{{}^z \partial^z \bar{\gamma}} \overline{{}^z \mathfrak{R}_z^\mu \bar{\gamma}} = \overline{{}^z \mathcal{E}^\mu \bar{\gamma}} = \overline{{}^0 \partial E_\partial^\mu \gamma_z \times \bar{\gamma}} = \alpha c_\beta^\mu \overline{{}^0 \partial^{\alpha\bar{\beta}} \gamma_z \times \bar{\gamma}_z \times \bar{\gamma}}$$

$$= \alpha c_\beta^\mu \overline{{}^0 \partial^\alpha \gamma_z \times \bar{\gamma}} \overline{{}^0 \partial^\beta \gamma_z \times \bar{\gamma}} = \alpha c_\beta^\mu \overline{{}^z \gamma_z^\alpha \partial^z \bar{\gamma}^\beta \partial^i \bar{\gamma}}$$

$$\overbrace{\partial_{\mathbb{C}}^{a\bar{b}} \gamma \times \gamma}^{0} = \overbrace{z\gamma_{\alpha} z\bar{\gamma}_{\beta}}^{z\bar{z}} \partial_{\mathbb{C}}^{z\bar{z}} \gamma$$

$$\overbrace{z\bar{w}}^{z\bar{w}} \gamma = \overbrace{z\bar{w}}^{z\bar{w}} \gamma = \overbrace{z\bar{w}}^{z\bar{w}} \gamma$$

$$\partial_{\mathbb{C}}^{\alpha\bar{\beta}} \overbrace{\gamma \times \gamma}^{z\bar{z}} = \partial_{\mathbb{C}}^{\alpha\bar{\beta}} \overbrace{\gamma_z \times \gamma_z}^{z\bar{z}} = \partial_{\mathbb{C}}^{\alpha\bar{\beta}} \overbrace{\gamma_z \times \gamma_z}^{z\bar{z}} = \partial_{\mathbb{C}}^{\alpha\bar{\beta}} \overbrace{\gamma_z \times \gamma_z}^{z\bar{z}}$$

$$\Rightarrow \overbrace{\partial_{\mathbb{C}}^{\alpha\bar{\beta}} \gamma \times \gamma}^{0} = \overbrace{\partial_{\mathbb{C}}^{\alpha\bar{\beta}} \gamma_z \times \gamma_z}^{0} = \overbrace{\partial_{\mathbb{C}}^{\alpha\bar{\beta}} \gamma_z \times \gamma_z}^{0} = \overbrace{z\gamma_{\alpha} z\bar{\gamma}_{\beta}}^{z\bar{z}} \partial_{\mathbb{C}}^{z\bar{z}} \gamma = \overbrace{z\gamma_{\alpha} z\bar{\gamma}_{\beta}}^{z\bar{z}} \partial_{\mathbb{C}}^{z\bar{z}} \gamma$$

$$\overbrace{\mathcal{P}_{z0}^{\mu} \gamma}^{z\bar{z}} = \overbrace{z\bar{z}}^{z\bar{z}} \mathcal{R}_{z}^{\mu} \gamma$$

$$\begin{aligned} \overbrace{\mathcal{P}_{jk}^{\mu} \gamma}^{z\bar{z}} &= \overbrace{P_{\alpha\beta}^{\mu} \gamma_{\delta}}^{z\bar{z}} \overbrace{z\bar{z} \gamma^{\alpha\bar{\beta}} z\bar{z} \gamma^{\bar{\gamma}\delta}}^{z\bar{z}} \partial_{\mathbb{C}}^{i\bar{h}} \gamma = \overbrace{P_{\alpha\beta}^{\mu} \gamma_{\delta}}^{z\bar{z}} \sqrt{2} \gamma_i^c z\bar{g}_h^a z\bar{\gamma}_j^d z\gamma_k^b \partial^i \gamma \partial^{\bar{h}} \gamma \\ &= \overbrace{P_{0\bar{a}}^{\mu} \gamma_{\bar{b}}}^{z\bar{z}} \overbrace{z\bar{\gamma}_h^a z\gamma_k^b}^{z\bar{z}} \partial^0 \gamma \partial^{\bar{h}} \gamma = \overbrace{c_{\bar{a}}^{\mu} z\bar{\gamma}_h^a z\gamma_k^b}^{z\bar{z}} \partial^0 \gamma \partial^{\bar{h}} \gamma = \text{RHS} \end{aligned}$$

$$\overline{\varrho^\mu \tau_1 \bar{\tau}_2} = \tau_1^\mu \bar{\tau}_2$$

$$\begin{aligned} \int_{dz}^B z \Delta_z^{-p} z \bar{\tau}_1 z \tau_2 \overline{\varrho^\mu \tau_1 \bar{\tau}_2} &= \int_{dzd\bar{z}}^{B_{\mathbb{R}}} z \bar{\tau}_1 z \tau_2 \overline{\varrho^\mu \tau_1 \bar{\tau}_2} \\ &= \int_{dzd\bar{z}}^{B_{\mathbb{R}}} z \bar{\tau}_1 z \tau_2 \overline{\partial_{\mathbb{C}}^{0\kappa} \tau_1 \bar{\tau}_2} \mathcal{P}_{0\kappa}^\mu \tau_1 \bar{\tau}_2 = \int_{dz}^B z \Delta_z^{-p} z \bar{\tau}_1 z \overline{\partial^{\kappa} \tau_2} z \tau_1 \mathcal{R}_\kappa^\mu \bar{\tau}_2 \\ &= \int_{dz}^B z \tau_2 \overline{(-\partial)^\kappa z \Delta_z^{-p} z \bar{\tau}_1 z \tau_1 \mathcal{R}_\kappa^\mu \bar{\tau}_2} = \int_{dz}^B z \bar{\tau}_1 z \tau_2 \overline{(-\partial)^\kappa z \Delta_z^{-p} z \tau_1 \mathcal{R}_\kappa^\mu \bar{\tau}_2} = \int_{dz}^B z \Delta_z^{-p} z \bar{\tau}_1 z \tau_2 \tau_1^\mu \bar{\tau}_2 \end{aligned}$$

$$\pi(z:\bar{w}) = z:\bar{z}$$

$$\bar{B} = \pi^{-1}(0) \ni 0:\bar{w}$$

$$B_{\mathbb{R}} \ni z:\bar{z} \Lambda = 0:\bar{z} \in \bar{B}$$

$$iB_{\mathbb{R}} \ni z:-\bar{z} \Lambda = z:0 \in B$$

$$z:\bar{w} = z+\frac{1}{2}w:\bar{z}+\frac{1}{2}\bar{w} + z-\frac{1}{2}w:\bar{w}-\frac{1}{2}\bar{z}$$

$$z:\bar{w} \Lambda = z+\frac{1}{2}w:\bar{z}+\frac{1}{2}\bar{w} \Lambda + z-\frac{1}{2}w:\bar{w}-\frac{1}{2}\bar{z} \Lambda = 0:\bar{z}+\frac{1}{2}\bar{w} + z-\frac{1}{2}w:0 = z-\frac{1}{2}w:\bar{z}+\frac{1}{2}\bar{w}$$