

$$AN \times V \begin{array}{c} \xrightarrow{2} \\ \xrightarrow{\omega} \end{array} \mathbb{C} \begin{array}{c} \xrightarrow{2} \\ \xrightarrow{m} \end{array} X_{\mathbb{C}}^+$$

$$\overline{\mathfrak{t}_{a:b}^{\pi} \psi}_{\xi} = \overline{v-b} \psi_{\xi} \quad a + v\Phi b - b\Phi b/2 \mathbf{e}_{\xi}$$

$$\mathfrak{t}_{a:b}^{\pi} \mathfrak{t}_{\acute{a}:\acute{b}}^{\pi} = \mathfrak{t}_{a+\acute{a}+\underline{\acute{b}\Phi b - b\Phi \acute{b}}/2:b+\acute{b}}^{\pi}$$

$$\begin{aligned} \overline{\text{LHS}} \psi_{\xi} &= \mathfrak{t}_{a:b}^{\pi} \overline{\mathfrak{t}_{\acute{a}:\acute{b}}^{\pi} \psi}_{\xi} = a + v\Phi b - b\Phi b/2 \mathbf{e}_{\xi} \quad \left( \mathfrak{t}_{\acute{a}:\acute{b}}^{\pi} \psi \right)_{\xi} \\ &= a + v\Phi b - b\Phi b/2 \mathbf{e}_{\xi} \quad \acute{a} + (v-b)\Phi \acute{b} - \acute{b}\Phi \acute{b}/2 \mathbf{e}_{\xi} \quad \overline{v-b-\acute{b}} \psi_{\xi} \\ &= a + \acute{a} + \underline{\acute{b}\Phi b - b\Phi \acute{b}}/2 + v\Phi \underline{b+\acute{b}} - \underline{b+\acute{b}}\Phi \underline{b+\acute{b}}/2 \mathbf{e}_{\xi} \quad \overline{v-b-\acute{b}} \psi_{\xi} = \overline{\text{RHS}} \psi_{\xi} \end{aligned}$$

$$\overline{\mathfrak{t}_{a:b}^{\pi} \psi} = \overline{\psi}$$

$$\begin{aligned} \text{LHS} &= \int_{dv}^V v^{\Phi v} \mathbf{e}_{\xi}^{-1} \overline{\mathfrak{t}_{a:b}^{\pi} \psi}_{\xi} \int_{X_{\mathbb{C}}^+}^{\xi} = \int_{dv}^V v^{\Phi v} \mathbf{e}_{\xi}^{-1} \overline{a + v\Phi b - b\Phi b/2 \mathbf{e}_{\xi}} \overline{v-b} \psi_{\xi} \int_{X_{\mathbb{C}}^+}^{\xi} \\ &= \int_{dv}^V v^{\Phi v} \mathbf{e}_{\xi}^{-1} \quad v\Phi b + b\Phi v \mathbf{e}_{\xi} \quad \overline{-b\Phi b} \mathbf{e} \quad \overline{v-b} \psi_{\xi} \int_{X_{\mathbb{C}}^+}^{\xi} = \int_{dv}^V (v-b)\Phi (v-b) \mathbf{e}_{\xi}^{-1} \overline{v-b} \psi_{\xi} \int_{X_{\mathbb{C}}^+}^{\xi} = \int_{db}^V b\Phi b \mathbf{e}_{\xi}^{-1} \overline{b} \psi_{\xi} \int_{X_{\mathbb{C}}^+}^{\xi} = \text{RHS} \end{aligned}$$

$$\mathbb{C} | X_{\mathbb{C}} \times V \begin{array}{c} \xrightarrow{2} \\ \xrightarrow{\omega} \end{array} \mathbb{C} \begin{array}{c} \xrightarrow{2} \\ \xrightarrow{m} \end{array} X_{\mathbb{C}}^+ \quad \overline{c^{\pi} \psi}_{\xi} = c_1 \mathbf{e}^{-d_V/2r} c_1^{-1/2} \psi_{c_1 \xi}$$

$$(c\acute{c})^{\pi} = c^{\pi} \acute{c}^{\pi}$$

$$\overline{c^\pi \psi} = \overline{\psi}$$

$$\begin{aligned} \text{LHS} &= \int_{dv}^V v \Phi v \mathbf{e}_\xi^{-1} \overline{v(c^\pi \psi)}_\xi \int_{X_C^+}^{d\xi} = \int_{dv}^V v \Phi v \mathbf{e}_\xi^{-1} c_1 e_{\mathfrak{D}}^{-d_{V/r}} \overline{c_{1/2}^w v \psi}_{c_1^\# \xi} \int_{X_C^+}^{d\xi} \\ &= \int_{dw}^V -\left( (c_{1/2} w) \Phi(c_{1/2} w) \right)_{c_1^{-1} \eta} c_1 e_{\mathfrak{D}}^{-d_{V/r}} c_1 e_{\mathfrak{D}}^{d_{1/2/r}} \overline{w \psi}_\eta c_1 e_{\mathfrak{D}}^{-d_{1/r}} \int_{X_C^+}^{d\eta} \end{aligned}$$

$$\gamma \in V^\xi \int_{\frac{2}{\omega} \mathbb{C}}^{\partial_\ell X_C^+} d\xi$$

$$\partial_\ell X_C^+ \ni \xi \rightsquigarrow \gamma_\xi \in V^\xi \int_{\frac{2}{\omega} \mathbb{C}}$$

$$\overline{\gamma}^{\frac{2}{\omega}} = \nu^{d_\ell} \int_{dv/\pi^{d_\ell}}^{V^\xi} \Phi(v:v) \mathbf{e}_\xi^{-\nu} v \gamma_\xi \mathfrak{D}_\xi^{d_\ell/\ell} \int_{d\mu_\ell(\xi)}^{\partial_\ell X_C^+}$$

$$\overline{c \times \gamma}_\xi = {}^{vc} \gamma_{c^\# \xi} e_{c \mathfrak{D}}^{\ell a/4}$$

$$\overline{\psi}^{\frac{2}{\omega}} := \nu^{d_\ell} \int_{d\mu_\ell(\xi)}^{\partial_\ell X_C^+} \mathfrak{D}(\xi)^{d_\ell/r} \int_{dv/\pi^{d_\ell}}^{V_\xi} \Phi(v:v) \mathbf{e}_\xi^{-\nu} \psi(\xi:v)$$

$$c^\pi \psi(\xi:v) := \mathfrak{D}(ce)^{\ell a/4} \psi(c^\# \xi : c^{-1}v)$$

$$\mathbf{t}_{a:b}^\pi \psi(\xi:v) := \psi(\xi:v + P_\xi b) \Phi(v:b) - a - \Phi \underline{b:b}/2 \mathbf{e}_\xi^{-1}$$

$$\mathbf{t}_{a:b}^\pi \overline{t_{\alpha:\beta}^\pi} \psi(\xi:v) = \mathbf{t}_{\alpha:\beta}^\pi \psi(\xi:v + P_\xi b) \Phi(v:b) - a - \Phi \underline{b:b}/2 \mathbf{e}_\xi^{-1}$$

$$= \psi(\xi:v + P_\xi b + P_\xi \beta) \Phi(v + P_\xi b : \beta) - \alpha - \Phi(\beta:\beta)/2 \mathbf{e}_\xi^{-1} \Phi(v:b) - a - \Phi \underline{b:b}/2 \mathbf{e}_\xi^{-1}$$

$$\overline{\mathbf{t}_{a:b}^\pi t_{\alpha:\beta}^\pi} \psi(\xi:v) = \mathbf{t}_{a+\alpha+\left(\Phi(\beta:b)-\Phi \underline{b:\beta}\right)/2, b+\beta}^\pi \psi(\xi \cdot v)$$

$$= \psi(\xi:v + P_\xi \underline{b+\beta}) \Phi(v:b+\beta) - a - \alpha - \left(\Phi(\beta:b) - \Phi \underline{b:\beta}\right)/2 + \Phi \underline{b+\beta:b+\beta}/2 \mathbf{e}_\xi^{-1}$$