$$\mathbb{C}\,{}^{2}_{m}\!\triangleleft\, X^{+}_{\mathsf{C}} \ni \psi \qquad\qquad \mathbb{C}\,{}^{2}_{-m}\!\triangleleft\, X^{+}_{\vartheta} \ni \varphi$$

$${}_{\sharp}\psi \in X^{\mathbb{C}}_{\mathsf{C}}\,{}^{2}_{\omega}\!\triangleleft\,\mathring{\overset{*}{\lambda}}\mathbb{C} \qquad\qquad {}_{\vartheta}\varphi \in X^{\mathbb{C}}_{\mathsf{C}}\,{}^{2}_{\vartheta}\!\triangleleft\,\mathbb{C}$$

$${}^{u}_{\sharp}\psi = {}^{-u\xi}e\;\psi_{\xi}\int_{X^{+}_{\mathsf{C}}}^{d\xi}$$

$${}^{u}_{\sharp}\iota = {}^{-u\xi}e\;\iota_{\xi}\int_{X^{+}_{\mathsf{C}}}^{d\xi}$$

$${}^{-u\xi}e\;{}^{N}_{\mathsf{C}}\overset{\sharp}{\underset{\mathbb{R}}{\mathbb{I}}}{}_{\xi}^{a-d_1^{\sharp}/r}\int_{X^{+}_{\mathsf{C}}}^{d\xi} = \Gamma_{a}^{\sharp}\;{}^{z}_{\mathsf{C}}\underset{\mathbb{R}}{\mathbb{I}}{}_{N}^{-a^{\sharp}}$$

$$a^{\sharp} = \left(a_r \cdots a_1\right)$$

$$\int_{dz/\pi^{d}}^{X_{\mathbb{C}}^{\mathbb{C}}} {}^{z+z^{*}}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\alpha-2d/r}\ \overline{{}^{z}_{\sharp}\varphi}^{2} = \overline{\varphi_{\xi}}^{2}\,\Gamma_{\alpha-d/r}\ {}^{N}\mathbb{I}^{\sharp}_{\mathbb{C}\mathbb{R}}\ \xi^{-\alpha^{\sharp}+d^{\sharp}/r}$$

$$\text{LHS} = 2^{d}\int_{dx}^{X_{\mathbb{C}}} {}^{2x}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\alpha-2d/r} \int_{dy/(2\pi)^{d}}^{iX} \overline{{}^{x+y}\mathfrak{e}_{\xi}^{-1}\varphi_{\xi}\int_{X_{\mathbb{C}}^{+}}^{d\xi}}^{2} = 2^{d}\int_{dx}^{X_{\mathbb{C}}} {}^{2x}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\alpha-2d/r} \int_{dy/(2\pi)^{d}}^{i\mathbb{I}_{\mathbb{R}}} {}^{x-y}\mathfrak{e}_{\xi_{1}}^{-1}\,\bar{\varphi}_{\xi_{1}}\int_{X_{\mathbb{C}}^{+}}^{d\xi_{1}} {}^{x+y}\mathfrak{e}_{\xi_{2}}^{-1}\,\varphi_{\xi_{2}}\int_{X_{\mathbb{C}}^{+}}^{\xi_{2}}$$

$$= 2^{d}\int_{dx}^{X_{\mathbb{C}}} {}^{2x}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\alpha-2d/r}\ {}^{2x}\mathfrak{e}_{\xi}^{-1}\,\overline{\varphi_{\xi}}^{2}\int_{X_{\mathbb{C}}^{+}}^{d\xi} = 2^{d}\int_{d\acute{x}}^{X_{\mathbb{C}}} {}^{\acute{x}}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\alpha-2d/r}\ {}^{-\acute{x}\xi}e\ \overline{\varphi_{\xi}}^{2}\int_{X_{\mathbb{C}}^{+}}^{d\xi} = \text{RHS}$$

$${}^{x+iy}_{\vartheta}\varphi = {}^{x\xi^{\vartheta}}e^{\,iy}\mathfrak{e}_{\xi}\,\varphi_{\xi}\int_{d\xi}^{X_{\vartheta}^{+}}$$

$$\int_{dz/\pi^{n}}^{\Pi} \overline{{}^{z}_{\vartheta}\varphi}^{2}\ {}^{z+z^{*}}\mathbb{I}^{\sharp\ \nu^{\sharp}-p}_{\mathbb{C}\mathbb{R}\,N} = \Gamma^{\sharp}_{\nu^{\sharp}-p/2}\ \overline{\varphi_{\xi}}^{2}\ {}^{N}\mathbb{I}^{\sharp\ -\nu+p^{\sharp}/2}_{\mathbb{C}\mathbb{R}\ \xi^{\vartheta}}\int_{d\xi}^{X_{\vartheta}^{+}}$$

$$\text{LHS} = \int_{dx} {}^{2x}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\nu^{\sharp}-p}\int_{dy}^{\mathbb{I}} \overline{{}^{x\xi^{\vartheta}}e^{iy}\mathfrak{e}_{\xi}\varphi_{\xi}\int_{d\xi}^{X_{\vartheta}^{+}}}^{2} == \int_{dx} {}^{2x}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\nu^{\sharp}-p}\ {}^{2x\xi^{\vartheta}}e\ \overline{\varphi_{\xi}}^{2}\int_{X_{\vartheta}^{+}}^{d\xi} = \int_{dt}^{<\mathbb{I}} {}^{t}\mathbb{I}_{\mathbb{C}\mathbb{R}\,N}^{\nu^{\sharp}-p}\ {}^{t\xi^{\vartheta}}e\ \overline{\varphi_{\xi}}^{2}\int_{X_{\vartheta}^{+}}^{d\xi}$$