$$\overbrace{\begin{array}{c|c} a & b \\ \hline c & d \end{array} \ltimes f}_{z} = \underbrace{\overbrace{a+zc}^{-1}}\underbrace{b+zd} f^{\,a+zc\,\overline{\Delta}^{2}\,\nu - p}$$

$$f \underset{\nu}{\barwedge} g = \int_{dz}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} \int_{dw}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_z f^{\,1 - z\overset{*}{w}\,\overline{\Delta}^{2} - \nu} {}_w g$$

$${}_z J = {}_z f_{\,1 - z\overset{*}{z}} \Delta^{p-\nu}$$

$$\overbrace{\begin{array}{c|c} a & b \\ \hline c & d \end{array} \ltimes J}_{z} = \underbrace{\overbrace{a+zc}^{-1}}\underbrace{b+zd} J$$

$$1 - \overbrace{a+zc}^{-1} \underbrace{b+zd} \overbrace{b+zd}^{*} \overbrace{a+zc}^{-*} = \overbrace{a+zc}^{-1} \underbrace{\overline{a+zc}\,\overbrace{a+zc}^{*} - \overline{b+zd}\,\overbrace{b+zd}^{*}} \overbrace{a+zc}^{-*} = \overbrace{a+zc}^{-1} \underbrace{1 - z\overset{*}{z}} \overbrace{a+zc}^{-*}$$

$$L^2\left(\hat{K}_{\mathbb{C}} G_{\mathbb{C}}\right) \underset{\text{def}}{\overset{\text{nat}}{\approx}} \mathcal{L}\left(H^2_\nu\left(\hat{K}_{\mathbb{C}} G_{\mathbb{C}}\right)\right)$$

$$J \underset{\nu}{\barwedge} g = J \barwedge \underbrace{\mathcal{B}_\nu g} = \int_{dz}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_z\bar{J}\; {}_z\overline{\mathcal{B}_\nu g} = \int_{dz}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_z\bar{J} \int_{dw}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_z\mathcal{B}^w_\nu \; {}_w g = \int_{dz}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} \int_{dw}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_z\bar{J}\; {}_z\mathcal{B}^w_\nu \; {}_w g$$

$$= \int_{dz}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} \int_{dw}^{\hat{K}_{\mathbb{C}} G_{\mathbb{C}}} {}_{1-z\overset{*}{z}}\Delta^{\nu - p}\; {}_{1-z\overset{*}{w}}\overline{\Delta}^{-2\nu}\; {}_{1-w\overset{*}{w}}\Delta^{\nu-p}\; {}_z\bar{J}\; {}_w g$$

positive

$$\{0 \ldots r-1\} \cup \underbrace{r-1}|\infty$$