

$$B\subset B^{\mathbb{C}}$$

$$r_{\mathbb{C}}=2r; \quad a_{\mathbb{C}}=a/2$$

$$\varkappa_{\mathbb{C}}=\varkappa\varkappa;\quad {}^x\Phi_{\mathbb{C}}^{\varkappa\varkappa}={}^{x^2}\Phi^{\varkappa}$$

$$\Phi_{\mathbb{C}}^{\varkappa\varkappa}\boxtimes\Phi_{\mathbb{C}}^{\varkappa\varkappa}=\frac{\left(d_X/r\right)_{\varkappa}\left(d_Z/2r\right)_{\varkappa}}{d_X^{\varkappa}}$$

$$\begin{aligned}\frac{\Phi_{\mathbb{C}}^{\varkappa\varkappa}\boxtimes\Phi_{\mathbb{C}}^{\varkappa\varkappa}}{\Phi_{\mathbb{C}}^{\varkappa\varkappa}\boxtimes\Phi_{\mathbb{C}}^{\varkappa\varkappa}}&=\frac{\Gamma_{\nu+\varkappa}^{\mathbb{C}}}{\Gamma_{\nu}^{\mathbb{C}}}=\prod_j\frac{\Gamma_{\nu+\varkappa_j-a_{\mathbb{C}}(2j-2)/2}\Gamma_{\nu+\varkappa_j-a_{\mathbb{C}}(2j-1)/2}}{\Gamma_{\nu-a_{\mathbb{C}}(2j-2)/2}\Gamma_{\nu-a_{\mathbb{C}}(2j-1)/2}}\\&=\prod_j\frac{\Gamma_{\nu+\varkappa_j-a(j-1)/2}\Gamma_{\nu-a/4+\varkappa_j-a(j-1)/2}}{\Gamma_{\nu-a(j-1)/2}\Gamma_{\nu-a/4-a(j-1)/2}}={(\nu)}_{\varkappa}{(\nu-a/4)}_{\varkappa}\end{aligned}$$