$$\int_{dx}^{Z_1} {}^{x}\daleth = \int_{dt}^{0|\infty} \varrho\,(t) \int_{du}^{S_1} {}^{tu}\daleth$$

$$\int_{du}^{S_1} {}^{a}\mathcal{E}_{u}^{m}\;{}^{u}\mathcal{E}_{b}^{m} = {}^{a}\mathcal{E}_{b}^{m}\,\frac{(a/2)_m}{(ra/2)_m (d/r)_m} = {}^{a}\mathcal{E}_{b}^{m}\,\frac{\Gamma_{m+a/2}}{\Gamma_{m+ra/2}\Gamma_{m+d/r}}$$

$${}^{z}\mathcal{E}_{w}^{m} = \frac{z\overset{m}{\bigstar}w}{m!}$$

$$\int_{du}^{S_1} {}^{u}\bar{p}\;{}^{u}q = \frac{\Gamma_{m+a/2}}{\Gamma_{m+ra/2}\Gamma_{m+d/r}}\, p \underset{Z}{\bigstar} q$$

$$\int_{dt}^{0|\infty} \delta\,(t)\; t^{n} = \frac{(a/2)_n}{c_n} = (ra/2)_n\;(d/r)_n = \Gamma_{n+ra/2}\,\Gamma_{n+d/r}$$

$$\int_{dt}^{0|\infty} \delta\,(t)\; t^{\lambda} = \Gamma_{\lambda+ra/2}\,\Gamma_{\lambda+d/r}$$

$$\int_{dx} {}^{x}\daleth = \int_{dt}^{0|\infty} \delta\,(t) \int_{du}^{S_1} {}^{u\sqrt{t}}\daleth$$

$$\int_{dx} \frac{a\overset{m}{\bigstar}x}{m!}\,\frac{x\overset{n}{\bigstar}b}{n!} = (a/2)_n\,\frac{a\overset{n}{\bigstar}b}{n!}$$

$$\text{LHS} = \int_{dt}^{0|\infty} \delta\,(t) \int_{du}^{S_1} \frac{a\overset{m}{\bigstar}u\sqrt{t}}{m!}\,\frac{u\sqrt{t}\overset{n}{\bigstar}b}{n!} = \int_{dt}^{0|\infty} \delta\,(t)\; t^{n} \int_{du}^{S_1} \frac{a\overset{m}{\bigstar}u}{m!}\,\frac{u\overset{n}{\bigstar}b}{n!} = c_n\,\frac{a\overset{n}{\bigstar}b}{n!} \int_{dt}^{0|\infty} \delta\,(t)\; t^{n} = \text{RHS}$$

$$\int_{dt} t^{a\,(r-1/2)}\,\mathcal{K}_{a/2-1}\,(2t) \int_{du}^{S_1} {}^{tu}\daleth$$

$$\int_{dt} t^{\mu}\,\mathcal{K}_{\nu}\,(2t) = \Gamma_{(1+\mu+\nu)/2}\,\Gamma_{(1+\mu-\nu)/2}$$