$$D^{\mathbb{R}}_{\infty}\mathbb{C} \xleftarrow[\text{Toep restr}]{\sharp} D^{\mathbb{C}}_{\infty}\mathbb{C}$$

$$\mathcal{T}^{\mathbb{R}}_{\sharp F} = \mathcal{T}^{\mathbb{C}}_{F} I$$

$$\mathcal{T}_{\bar{H}} K^{\nu}_{w} = {}^{w}\bar{H}\; K^{\nu}_{w}$$

$$\overbrace{\mathcal{T}_{\bar{H}} K^{\nu}_{w}}^{z} = K^{\nu}_{z} \,\bar{\ast}\, \overbrace{\mathcal{T}_{\bar{H}} K^{\nu}_{w}} = \underbrace{\mathcal{T}_{H} K^{\nu}_{z}} \,\bar{\ast}\, K^{\nu}_{w} = \underbrace{H K^{\nu}_{z}} \,\bar{\ast}\, K^{\nu}_{w} = K^{\nu}_{w} \,\bar{\ast}\, \underbrace{H K^{\nu}_{z}} = \overline{{}^{w}H\, {}^{w}K^{\nu}_{z}} = {}^{w}\bar{H}\; {}^{z}K^{\nu}_{w}$$

$$\mathcal{T}^{\mathbb{C}}_{\bar{H}}\, \mathcal{T}^{\mathbb{R}}_{\urcorner} = \mathcal{T}^{\mathbb{R}}_{\varrho \bar{H} \urcorner}$$

$$\mathcal{T}^{\mathbb{C}}_{\bar{H}}\, \mathcal{T}^{\mathbb{R}}_{\urcorner} = \mathcal{T}^{\mathbb{C}}_{\bar{H}} \int_{d\mu_0(x)}^{D^{\mathbb{R}}} {}^{x}\urcorner\, \mathcal{T}^{\mathbb{R}}_{x} = \mathcal{T}^{\mathbb{C}}_{\bar{H}} \int_{d\mu_0(x)}^{D^{\mathbb{R}}} {}^{x}\urcorner\, K^{\nu}_{x}\, {}^{x}K^{-\nu/2}_{x} = \int_{d\mu_0(x)}^{D^{\mathbb{R}}} {}^{x}\urcorner\, {}^{x}K^{-\nu/2}_{x}\, \mathcal{T}^{\mathbb{C}}_{\bar{H}} K^{\nu}_{x}$$

$$= \int_{d\mu_0(x)}^{D^{\mathbb{R}}} {}^{x}\urcorner\, {}^{x}K^{-\nu/2}_{x}\, {}^{x}\bar{H}\; K^{\nu}_{x} = \int_{d\mu_0(x)}^{D^{\mathbb{R}}} {}^{x}\bar{H}\; {}^{x}\urcorner\, K^{\nu}_{x}\, {}^{x}K^{-\nu/2}_{x} = \int_{d\mu_0(x)}^{D^{\mathbb{R}}} \overbrace{\varrho \bar{H} \urcorner}^{x}\, \mathcal{T}^{\mathbb{R}}_{x} = \mathcal{T}^{\mathbb{R}}_{\varrho \bar{H} \urcorner}$$

$$\sharp \underbrace{\bar{H} F} = \underbrace{\varrho \bar{H}}\, \underbrace{\sharp F}$$

$$\mathcal{T}^{\mathbb{R}}_{\sharp \underbrace{\bar{H} F}} = \mathcal{T}^{\mathbb{C}}_{\bar{H} F} I = \underbrace{\mathcal{T}^{\mathbb{C}}_{\bar{H}} \mathcal{T}^{\mathbb{C}}_{F}} I = \mathcal{T}^{\mathbb{C}}_{\bar{H}}\, \underbrace{\mathcal{T}^{\mathbb{C}}_{F} I} = \mathcal{T}^{\mathbb{C}}_{\bar{H}}\, \mathcal{T}^{\mathbb{R}}_{\sharp F} \underset{\text{Lem}}{=} \mathcal{T}^{\mathbb{R}}_{\underbrace{\varrho \bar{H}} \underbrace{\sharp F}}$$

$$\frac{\Gamma_{a+x}\Gamma_{b+x}}{\Gamma_{c+x}\Gamma_{a+b-c+x}} \underset{\text{Biering}}{=} \sum_{0 \leqslant m} \frac{(a-c)_m (b-c)_m}{m!(1-c-x)_m}$$