$$\mathtt{L}\boxtimes\mathbb{C}/\mathbb{C}^{d}\;\overset{2}{\underset{\omega}{\triangle}}\overset{\nu}{\mathbb{C}} \xleftarrow{\overset{1\text{-}\alpha}{()}} \mathtt{L}/\mathbb{R}^{d}\;\overset{2}{\underset{\infty}{\triangle}}\mathbb{C}$$

$$\begin{cases} \text{geod} \\ \text{Toep} \\ \text{Weyl} \end{cases}$$

$$\overset{z\,1\text{-}\alpha\nu}{\underline{x}} = \frac{\overbrace{\nu\alpha/2}^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu\alpha/2}}\,{}^{z}\mathfrak{e}_x^{\nu\alpha}\;{}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2} \;\underset{\text{Weyl}}{\overset{\text{Toep}}{\equiv}}\; \begin{cases} \dfrac{\overbrace{\nu/2}^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu/2}}\,{}^{z}\mathfrak{e}_x^{2\nu} & \alpha=1 \\ \dfrac{\nu^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu}}\,{}^{z}\mathfrak{e}_x^{2\nu z}\mathfrak{e}_{\bar{z}}^{-\nu/2} & \alpha=2 \end{cases}$$

$$\overset{1\text{-}\alpha\nu}{\daleth} = \int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} {}^{x}\daleth\;\overset{1\text{-}\alpha\nu}{\underline{x}} \;\underset{\text{Weyl}}{\overset{\text{Toep}}{\equiv}}\; \begin{cases} \displaystyle\int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} \frac{\overbrace{\nu/2}^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu/2}}\,{}^{z}\mathfrak{e}_x^{2\nu} & \alpha=1 \\ \displaystyle\int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} \frac{\nu^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu}}\,{}^{z}\mathfrak{e}_x^{2\nu z}\mathfrak{e}_{\bar{z}}^{-\nu/2} & \alpha=2 \end{cases}$$

$$\overset{z\,1\text{-}\alpha\nu}{\daleth} = \int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} {}^{x}\daleth\;\overset{z\,1\text{-}\alpha\nu}{\underline{x}} = \int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} \frac{\overbrace{\nu\alpha/2}^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu\alpha/2}}\,{}^{z}\mathfrak{e}_x^{\nu\alpha}\;{}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2}\;{}^{x}\daleth \;\underset{\text{Weyl}}{\overset{\text{Toep}}{\equiv}}\; \begin{cases} \displaystyle\int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} \frac{\overbrace{\nu/2}^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu/2}}\,{}^{z}\mathfrak{e}_x^{2\nu}\,{}^{x}\daleth & \alpha=1 \\ \displaystyle\int_{dx/\pi^{d/2}}^{{}^{d}\mathbb{R}} \frac{\nu^{d/2}}{{}^{x}\mathfrak{e}_x^{\nu}}\,{}^{z}\mathfrak{e}_x^{2\nu z}\mathfrak{e}_{\bar{z}}^{-\nu/2}\,{}^{x}\daleth & \alpha=2 \end{cases}$$

$$\int_{dx/\pi^{d}}^{\mathbb{R}^{d}} \frac{\det A^{1/2}}{{}^{x}e_x^{A}}\,{}^{z}\mathfrak{e}_{\zeta}^{2} = {}^{z}\mathfrak{e}_{\bar{z}}^{A^{-1}}$$

$$ {}^{z}\overset{1-\alpha\nu}{\ulcorner 1 \urcorner} = {}^{z}\mathfrak{e}_{\bar{z}}^{\nu/2} $$

$$ \text{LHS} = \int_{dx/\pi^{d/2}}^{\mathbb{R}^d} {}^{z}\overset{1-\alpha}{\ulcorner x \urcorner} = \int_{\mathbb{R}^d} \left(\frac{dx}{\sqrt{\pi}}\right)^{d} \frac{\overbrace{\nu\alpha/2}^{d/2}}{{}^{x}\mathfrak{e}_{x}^{\nu\alpha/2}} \, {}^{z}\mathfrak{e}_{x}^{\nu\alpha} \, {}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2} = {}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2} \int_{dx/\pi^{d/2}}^{\mathbb{R}^d} \frac{\overbrace{\nu\alpha/2}^{d/2}}{{}^{x}\mathfrak{e}_{x}^{\nu\alpha/2}} \, {}^{z}\mathfrak{e}_{x}^{\nu\alpha} $$

$$ = {}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2} \; {}^{\nu\alpha z/2}\mathfrak{e}_{\nu\bar{\alpha}\bar{z}/2}^{2/\nu\alpha} = {}^{z}\mathfrak{e}_{\bar{z}}^{\nu\,(1-\alpha)\,/2} \; {}^{z}\mathfrak{e}_{\bar{z}}^{\nu\alpha/2} = \text{RHS} $$

$$ {}^{z}\overbrace{\mathfrak{R} \underset{\mathbb{R}^d}{|} \urcorner} = {}^{z}\mathfrak{R} \underset{\mathbb{R}^d}{|} \urcorner = \int_{dx/\pi^{d/2}}^{\mathbb{R}^d} {}^{z}\mathfrak{R}_{x} \, {}^{x}\urcorner $$

$$ {}^{z}\mathfrak{R}_{x} = {}^{z}\mathfrak{e}_{x}^{2\pi} \, {}^{x}\mathfrak{e}_{x}^{-\pi} \, {}^{z}\mathfrak{e}_{\bar{z}}^{-\pi/2} = \mathfrak{e}^{z|x - z|\bar{z}/2 - x|x/2} $$

$$\mathbb{C}^n \underset{\omega}{\overset{2}{\triangle}} \overset{\pi}{\mathbb{C}} \xleftarrow[\text{unitary}]{\mathcal{B}} \mathbb{R}^n \underset{\infty}{\overset{2}{\triangle}} \mathbb{C}$$

$$\widehat{\mathcal{W}_\nu \rceil} \bowtie \widehat{\mathcal{W}_\nu \rceil'} = \rceil \bowtie \rceil'$$

$${}^{\zeta}\widehat{\mathcal{B}\rceil} = 2^{n/4} \int_{d\xi}^{\mathbb{R}^n} {}^{\xi}\rceil \; {}^{\zeta}\mathfrak{e}_{\xi}^{2\pi} \; {}^{\xi}\mathfrak{e}_{\xi}^{-\pi} \; {}^{\zeta}\mathfrak{e}_{\bar{\zeta}}^{-\pi/2}$$

$$\text{LHS} = \int_{dz}^{\mathbb{C}^d} \mathfrak{e}^{-\nu z \bowtie z} \; {}^{z}\overset{*}{\widehat{\mathcal{W}_\nu \rceil}} \; {}^{z}\widehat{\mathcal{W}_\nu \rceil'}$$

$$= \int_{dz}^{\mathbb{C}^d} \mathfrak{e}^{-\nu z \bowtie z} \int_{d\xi}^{\mathbb{R}^d} \mathfrak{e}^{\nu\left(2\xi \bowtie z - \bar{z} \bowtie z/2 - \xi \bowtie \xi\right)} \; {}^{\xi}\bar{\rceil} \int_{d\eta}^{\mathbb{R}^d} \mathfrak{e}^{\nu\left(2z \bowtie \eta - z \bowtie \bar{z}/2 - \eta \bowtie \eta\right)} \; {}^{\eta}\rceil'$$

$$= \int_{d\xi}^{\mathbb{R}^d} \mathfrak{e}^{-\nu\xi \bowtie \xi} \; {}^{\xi}\bar{\rceil} \int_{d\eta}^{\mathbb{R}^d} \mathfrak{e}^{-\nu\eta \bowtie \eta} \; {}^{\eta}\rceil' \int_{dz}^{\mathbb{C}^d} \mathfrak{e}^{\nu\left(2\xi \bowtie z + 2z \bowtie \eta - \bar{z} \bowtie z/2 - z \bowtie \bar{z}/2 - z \bowtie z\right)}$$

$$= \int_{d\xi}^{\mathbb{R}^d} \mathfrak{e}^{-\nu\xi \bowtie \xi} \; {}^{\xi}\bar{\rceil} \int_{d\eta}^{\mathbb{R}^d} \mathfrak{e}^{-\nu\eta \bowtie \eta} \; {}^{\eta}\rceil' \int_{dy}^{\mathbb{R}^d} \mathfrak{e}^{\nu(2iy \bowtie (\eta - \xi))} \int_{dx/\pi^{d/2}}^{\mathbb{R}^d} \mathfrak{e}^{2\nu((\xi+\eta) \bowtie x - x \bowtie x)}$$

$$= \int_{d\zeta}^{\mathbb{R}^d} \mathfrak{e}^{-2\nu\zeta \bowtie \zeta} \; {}^{\zeta}\bar{\rceil} \; {}^{\zeta}\rceil' \int_{dx/\pi^{d/2}}^{\mathbb{R}^d} \mathfrak{e}^{2\nu(2\zeta \bowtie x - x \bowtie x)} = \int_{d\zeta}^{\mathbb{R}^d} \mathfrak{e}^{-2\nu\zeta \bowtie \zeta} \; {}^{\zeta}\bar{\rceil} \; {}^{\zeta}\rceil' \; \mathfrak{e}^{2\nu\zeta \frac{1}{2\nu} \bowtie_{\nu} \zeta} = \int_{d\zeta}^{\mathbb{R}^d} {}^{\zeta}\bar{\rceil} \; {}^{\zeta}\rceil'$$

$$\underset{\pm}{\mathbb{C}^n} \underset{\omega}{\overset{2}{\triangle}} \overset{\pi}{\mathbb{C}} \xleftarrow[\text{even}]{\mathcal{B}} \underset{\pm}{\mathbb{R}^n} \underset{\infty}{\overset{2}{\triangle}} \mathbb{C}$$