$$\varkappa_{\ell+1} > 0 \underset{*}{\Rightarrow} (\ell a/2)_{\varkappa} = 0$$

$$\varkappa_{\ell+1} > 0 \underset{j=\ell+1}{\Rightarrow} \prod_{i}^{\varkappa_{\ell+1}} \left(i + \ell\frac{a}{2} - \ell\frac{a}{2}\right) = 0$$

$$\varkappa_{\ell+1} > 0 \underset{**}{\Rightarrow} {}^{z}\mathcal{E}_{x}^{\varkappa} = 0$$

$$z{:}w \in B \Rightarrow \int_{d\mu(x)}^{Z_\ell} {}^{z}\mathcal{E}_{x} \, {}^{x}\mathcal{E}_{w} = {}^{z}\mathcal{D}_{w}^{-\ell a/2}$$

$$x \in Z_\ell \underset{**}{\Rightarrow} {}^{z}\mathcal{E}_{x} = \sum_{\varkappa}^{\mathbb{N}_+^\ell} {}^{z}\mathcal{E}_{x}^{\varkappa} : \quad {}^{x}\mathcal{E}_{w} = \sum_{\varkappa}^{\mathbb{N}_+^\ell} {}^{x}\mathcal{E}_{w}^{\varkappa}$$

$$\varkappa \in \mathbb{N}_+^\ell \Rightarrow \int_{d\mu(x)}^{Z_\ell} {}^{z}\mathcal{E}_{x}^{\varkappa} \, {}^{x}\mathcal{E}_{w}^{\varkappa} = (\ell a/2)_{\varkappa} \, {}^{z}\mathcal{E}_{w}^{\varkappa}$$

$$\text{LHS} = \sum_{\varkappa}^{\mathbb{N}_+^\ell} \int_{d\mu(x)}^{Z_\ell} {}^{z}\mathcal{E}_{x}^{\varkappa} \, {}^{x}\mathcal{E}_{w}^{\varkappa} = \sum_{\varkappa}^{\mathbb{N}_+^\ell} (\ell a/2)_{\varkappa} \, {}^{z}\mathcal{E}_{w}^{\varkappa} \underset{*}{=} \sum_{\varkappa}^{\mathbb{N}_+^r} (\ell a/2)_{\varkappa} \, {}^{z}\mathcal{E}_{w}^{\varkappa} \underset{\text{FK}}{=} \text{RHS}$$

$$z \in B \xrightarrow[\text{emb}]{} \mathbb{S}\left(\mathcal{H}_0\right) \ni {}^{z}\mathcal{D}_{z}^{\ell a/4} \, \mathcal{E}_{z}$$

$$\underbrace{{}^{z}\mathcal{D}_{z}^{\ell a/4}\mathcal{E}_{z}} \,\bar{\wedge}\, \underbrace{{}^{w}\mathcal{D}_{w}^{\ell a/4}\mathcal{E}_{w}} = {}^{z}\mathcal{D}_{z}^{\ell a/4} \, {}^{z}\mathcal{D}_{w}^{-\ell a/2} \, {}^{w}\mathcal{D}_{w}^{\ell a/4}$$