

$$\begin{aligned}
Z &= \mathbb{C}^{1+s} \\
S &= S^{2s+1} \\
u^*v &= \underline{u} \times v \\
e^*z &= \underline{e} \times z \\
X_e^{\mathbb{C}} &= \mathbb{C}e \supset S_e = \mathbb{T}e \\
\mathbb{K}_1^{\mathbb{C}}(\mathbb{C}^{1+s}) &= S / \sim
\end{aligned}$$

$$\overline{a+zc}^{-1} \underline{b+zd} = zg = \underline{\check{a}z + \check{c}}^{-1} \underline{\check{b}z + \check{d}}^{-1}$$

$$\overline{a+zc} \underline{\check{a}z + \check{c}} - \underline{b+zd} \underline{\check{b}z + \check{d}} = \underbrace{a\check{a} - b\check{b}}_{=1} z + \underbrace{a\check{c} - b\check{d}}_{=0} + z \underbrace{c\check{a} - d\check{b}}_{=0} z + z \underbrace{c\check{c} - d\check{d}}_{=-1} = 0$$

$$\overline{a+zc}^{-1} = \check{a} - \underline{zg} \check{b}$$

$$\underline{\check{b}z + \check{d}}^{-1} = d - c \underline{zg}$$

$$\overline{a+zc} \underline{\check{a} - \underline{zg} \check{b}} = \overline{a+zc} \underline{\check{a} - \underline{a+zc} \underline{b+zd} \check{b}} = \overline{a+zc} \check{a} - \underline{b+zd} \check{b} = \underbrace{a\check{a} - b\check{b}}_{=1} + z \underbrace{c\check{a} - d\check{b}}_{=0} = 1$$

$$\underline{d - c \underline{zg}} \underline{\check{b}z + \check{d}} = \underline{d - c \underline{\check{a}z + \check{c}} \underline{\check{b}z + \check{d}}} \underline{\check{b}z + \check{d}} = \underline{d \check{b}z + \check{d}} - c \underline{\check{a}z + \check{c}} = \underbrace{d\check{b} - c\check{a}}_{=0} z + \underbrace{\check{d} - c\check{c}}_{=1} = 1$$

$$\underline{\check{z}} \underline{zg} = \overline{a+zc}^{-1} \underline{\check{z} \underline{d - c \underline{zg}}} = \underline{a+zc}^{-1} \underline{\check{z} \underline{\check{b}z + \check{d}}}$$

$$\left\{ \begin{array}{l}
Z = {}^r\mathbb{C}_{r+b} = {}^r\mathbb{C}_r | {}^r\mathbb{C}_b \Rightarrow Z_e^{1/2} = {}^r\mathbb{C}_b \quad K = {}^r\mathbb{C}_r^{\mathbb{U}} \times {}^{r+b}\mathbb{C}_{r+b}^{\mathbb{U}} \xrightarrow{\text{hom}} {}^{r+b}\mathbb{C}_{r+b}^{\mathbb{U}} = U_{Z_e^{1/2}} \\
Z = {}^{2r+1}\mathbb{C}_{2r+1}^{\mathbb{E}} = \frac{{}^{2r}\mathbb{C}_{2r}^{\mathbb{E}}}{-{}^{2r+1}\mathbb{C}} \Big| \mathbb{C}_{2r+1} \Rightarrow Z_e^{1/2} = \mathbb{C}_{2r+1} \quad K = {}^{2r+1}\mathbb{C}_{2r+1}^{\mathbb{U}} \times {}^{2r+1}\mathbb{C}_{2r+1}^{\mathbb{U}} \xrightarrow{\text{hom}} {}^{2r+1}\mathbb{C}_{2r+1}^{\mathbb{U}} = U_{Z_e^{1/2}} \\
Z = \mathbb{C}^{16} = \mathbb{C}^{2+6} | \mathbb{C}^{2+6} \Rightarrow Z_e^{1/2} = \mathbb{C}^{2+6} \quad K \stackrel{\text{HEL}}{=} \mathbb{T} \times {}_{10}\mathbb{R}^{10} \xrightarrow{\text{hom}} {}_{10}\mathbb{R}^{10} = U_{Z_e^{1/2}}
\end{array} \right.$$