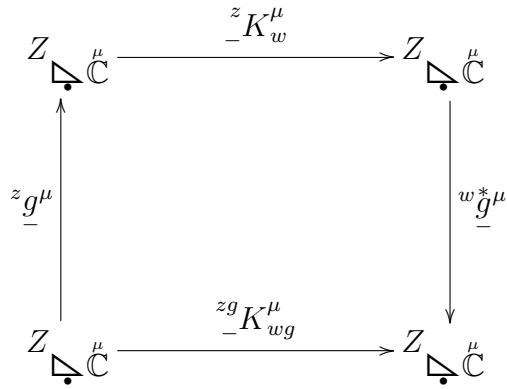


$${}^z K_w = {}^z B_w$$

$${}^{zg} K_{wg} = {}^{w^*} \underline{g} \cdot {}^z K_w \cdot {}^z \underline{g} \in K^{\mathbb{C}}$$



$${}^o \underline{k} \in \mathbf{U} | K^\mu$$

$${}^z K_z = {}^o \underline{z} \cdot {}^o \underline{z}$$

$${}^o K_0 = I$$

$$\text{LHS} = {}^o \underline{g}_{zg}^* \cdot {}^o \underline{g}_{zg} = {}^o \underline{k}_{g_z}^* \cdot I \cdot {}^o \underline{k}_{g_z} = \overbrace{{}^o \underline{k}_{g_z}^* \cdot {}^o \underline{g}_z}^* \cdot {}^o \underline{k}_{g_z} \cdot {}^z \underline{g} = {}^z \underline{g} \cdot {}^o \underline{g}_z^* \cdot {}^o \underline{k}_{g_z} \cdot {}^o \underline{k}_{g_z} \cdot {}^z \underline{g} = {}^z \underline{g} \cdot {}^o \underline{g}_z^* \cdot {}^o \underline{g}_z \cdot {}^z \underline{g} = \text{RHS}$$