

$$\mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\blacktriangle} \mathbb{L} \lrcorner \mathbb{C}|\mathbb{L}} = \mathfrak{h}_{\infty} \mathbb{R}_{>} \ni \mathfrak{q} \text{ volume element}$$

$$\mathbb{C}|\mathbb{L} \times \mathfrak{h}_{\mathbb{C}|\mathbb{L}} \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\blacktriangle} \mathbb{L} \lrcorner \mathbb{C}|\mathbb{L}} = \frac{\tilde{\mathfrak{q}} \in \mathbb{C}|\mathbb{L} \times \mathfrak{h}_{\infty} \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\blacktriangle} \mathbb{L} \lrcorner \mathbb{C}|\mathbb{L}}}{pg\tilde{\mathfrak{q}} = g^{-1p}\tilde{\mathfrak{q}} \text{ homog}}$$

$$\mathbb{C}|\mathbb{L} \times \mathfrak{h}_{\mathbb{C}|\mathbb{L}} \mathfrak{h}_{\infty} \mathbb{R}_{>} = \frac{\tilde{\mathfrak{q}} \in \mathbb{C}|\mathbb{L} \times \mathfrak{h}_{\infty} \mathfrak{h}_{\infty} \mathbb{R}_{>}}{pg\tilde{\mathfrak{q}} = g^{-1p}\tilde{\mathfrak{q}} \text{ homog}}$$

$$\mathfrak{h}_{\infty} \underbrace{\mathbb{R}_{>}} = \mathfrak{h}_{\blacktriangle} \mathbb{L} \lrcorner \mathbb{C}|\mathbb{L}$$

$$\begin{array}{c} \updownarrow \\ a \quad b \end{array}$$

$$\mathbb{C}|\mathbb{L} \times \mathfrak{h}_{\mathbb{C}|\mathbb{L}} \mathfrak{h}_{\infty} \underbrace{\mathbb{R}_{>}} = \mathfrak{h}_{\blacktriangle} \mathbb{L} \lrcorner \mathbb{C}|\mathbb{L}$$