

$$h:L \in \mathfrak{h} \times \mathfrak{h} \xrightarrow[\text{Lag}]{\mathcal{L}} \mathbb{R} \ni {}^{h:L}\mathcal{L}$$

$${}^{h:L}\mathcal{L} = \frac{1}{2}L \times L - {}^hV$$

$$\mathfrak{h}_h \xrightarrow{\partial_2 {}^{h:L}\mathcal{L}} \mathbb{R}$$

$$\partial_2 {}^{h:L}\mathcal{L} = \times L$$

$$\dot{L} \partial_2 {}^{h:L}\mathcal{L} = \dot{L} \times L$$

$$\mathfrak{h} \times \mathfrak{h} \xrightarrow{\sim} \mathfrak{h} \times \mathfrak{h} \triangleleft \mathbb{R}$$

$$h:L \mapsto h: \partial_2 {}^{h:L}\mathcal{L}$$

$$\mathfrak{h} \times \mathfrak{h} \xrightarrow[*]{\rightarrow} \mathfrak{h} \times \mathfrak{h} \triangleleft \mathbb{R}$$

$$h:L \mapsto L: \times L$$

$${}_{h:\partial_2 {}^{h:L}\mathcal{L}} \mathcal{H} = L \underbrace{\partial_2 {}^{h:L}\mathcal{L}} - {}^{h:L}\mathcal{L}$$

$${}_{h:\times L} \mathcal{H} = L \times L - \underbrace{\frac{1}{2}L \times L - {}^hV}_{\frac{1}{2}L \times L} = \frac{1}{2}L \times L + {}^hV$$