

$$M \subset \underline{M}$$

$$\underline{M} \times_K G \ni \dot{x}:g = \dot{x} \circ g$$

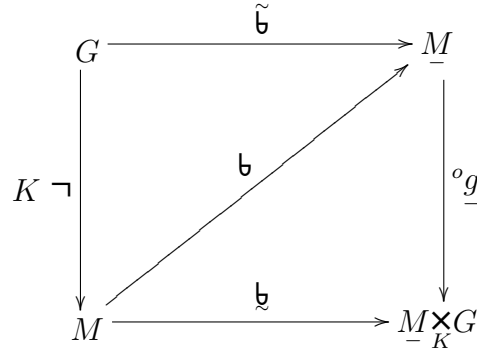
$$\tilde{\mathfrak{b}}_g = \mathfrak{b}_{og} \circ g^{-1}$$

$$\mathfrak{b}_x = \tilde{\mathfrak{b}}_{\gamma_x} \circ \gamma_x^{-1}$$

$$\underline{M}_x \ni \mathfrak{b}_x = \tilde{\mathfrak{b}}_{\gamma_x} \circ \gamma_x^{-1} = \mathfrak{b}_x \in \underline{M}$$

$$\mathfrak{b}_x \times_x \mathfrak{b}_x = \tilde{\mathfrak{b}}_{\gamma_x} \times \tilde{\mathfrak{b}}_{\gamma_x}$$

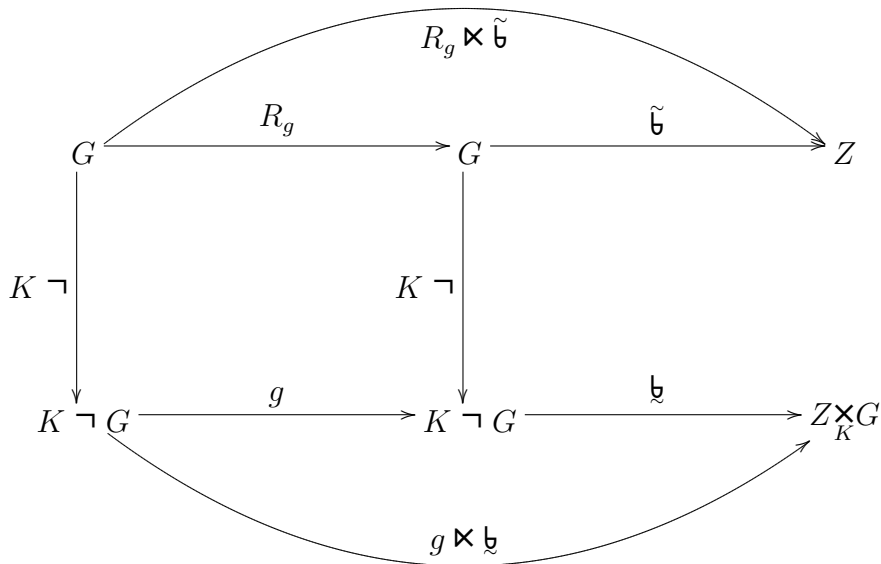
$$\underline{M} \times_K G = \begin{cases} \mathfrak{b}:g \sim \mathfrak{b}k^{-1}:kg \\ \mathfrak{b} \in Z:g \in G \end{cases}$$



$$\dot{x}:g = \dot{x} \circ \underline{g}$$

$$Z \ni \begin{cases} \tilde{b}_{\gamma_x} = \mathfrak{b}_x \cdot \frac{1}{2} B_x \\ \tilde{b}_g = \mathfrak{b}_{og} \circ \underline{g} \end{cases} \Rightarrow \tilde{b}_{kg} = \mathfrak{b}_{okg} \circ \underline{k}g = \circ \underline{k} \circ \underline{ok}g \mathfrak{b}_{og} = \mathfrak{b}_{og} \circ \underline{g} \circ \underline{k} = \tilde{b}_g \circ \underline{k}$$

$$Z \times (og) \ni \begin{cases} \circ \underline{g} \mathfrak{b} = \mathfrak{b} \circ \underline{g} \\ \mathfrak{b}_x = \gamma_x \tilde{b} \circ \gamma_x = \frac{1}{2} B_x \mathfrak{b} \circ \gamma_x \end{cases}$$



$$\mathfrak{b}_x \times \tilde{b}_x = \tilde{b}_{\gamma_x} \times \mathfrak{b}_{\gamma_x}$$

$$\underbrace{\mathfrak{b} \nabla \dot{x}}_x = \mathfrak{b}_x \dot{x} - \underbrace{\mathfrak{b}_x^* \dot{x}}$$

$$\tilde{\mathfrak{b}}_g = \mathfrak{b}_{o \cdot g} \circ g^{-1}$$

$$\tilde{\mathfrak{b}}_{\gamma_x} = \mathfrak{b}_x \circ \underline{\gamma_x}^{-1} = \mathfrak{b}_x^x B_x^{1/2}$$

$$\underline{D}_x \ni \mathfrak{k}_x = \tilde{\mathfrak{b}}_{\gamma_x} \circ \underline{\gamma_x} = \mathfrak{b}_x \in Z$$