

$$\mathfrak{l}\times \mathfrak{l} \supset \mathfrak{h} \xrightarrow[\mathrm{diff}]{{\gamma}} \mathfrak{l}$$

$$\dot{x}\,\lvert\, \dot{y}^{(a:b)}\!\!\!-\!\!\! \underline{\nu} = \dot{x}^{(a:b)}\!\!\!-\!\!\! \underline{\nu}_1 + \dot{y}^{(a:b)}\!\!\!-\!\!\! \underline{\nu}_2$$

$$\left\{ \begin{array}{l} \mathbb{I} \times \mathbb{I} \supset \mathbb{H} \xrightarrow{\gamma} \mathbb{I} \\ \text{diff} \\ \mathbb{H} \ni a:b \mapsto \overset{a:b}{\gamma} = c \in \mathbb{I} \end{array} \right. \Rightarrow \bigvee \mathbb{I} \supset U_a \xrightarrow[\text{diff}]{} \mathbb{I} \quad \left\{ \begin{array}{l} {}^a \gamma = b \\ \mathbb{H} \supset W_{a:b} \supset \mathcal{G}_\gamma \\ \bigwedge_x {}^{U_a x} \gamma = c \end{array} \right.$$

$$W \xrightarrow[\text{diff}]{} \mathbb{I} \times \mathbb{I} \ni {}^{x:y} \mathbb{H} = x:{}^{x:y} \gamma$$

$$\dot{x} | \dot{y} \overset{a:b}{\gamma} = \dot{x} | \underbrace{\dot{x} | \dot{y}}_{\overset{a:b}{\gamma}} = \dot{x} | \underbrace{\dot{x} \overset{a:b}{\gamma} + \dot{y} \overset{a:b}{\gamma}}_{\overset{a:b}{\gamma}} = \dot{x} | \dot{y} \frac{1}{0} \left| \begin{array}{c} \overset{a:b}{\gamma} \\ \overset{a:b}{\gamma} \end{array} \right.$$

$$\Rightarrow \overset{a:b}{\gamma} = \frac{1}{0} \left| \begin{array}{c} \overset{a:b}{\gamma} \\ \overset{a:b}{\gamma} \end{array} \right. \text{ inv } \wedge \overset{a:b}{\gamma}^{-1} = \frac{1}{0} \left| \begin{array}{c} -\overset{a:b}{\gamma} \\ \overset{a:b}{\gamma} \end{array} \right. \xrightarrow{\text{SUF}} \bigvee \mathbb{H} \supset W_{a:b} \xrightarrow[\text{bij}]{\gamma} U_a \times V_c \subset \mathbb{I} \times \mathbb{I}$$

$$\overset{-1}{\gamma} = \mathbf{u} = \mathbf{u} : \mathbf{u}$$

$${}^{x:\gamma} = {}^{x:c} \mathbf{u} \Rightarrow U \xrightarrow[\text{diff}]{} \mathbb{I}$$

$$\mathcal{G}_\gamma \subset W_{a:b} \wedge \bigwedge_x {}^{x:x} \gamma = c$$

$$U_a \times V_c \ni x:z = \overset{x:z}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{x:z}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{x:z}{\mathbf{u}} \overset{x:z}{\mathbf{u}} \gamma = \underbrace{x:z}_{\mathbf{u}} \underbrace{\mathbf{u} : \mathbf{u}}_{\gamma} \Rightarrow \begin{cases} {}^{x:\gamma} \mathbf{u} &= x \in U_a \\ {}^{x:\gamma} \mathbf{u} &= z \in V_c \end{cases}$$

$$\Rightarrow \bigwedge_x {}^{x:x} \gamma = {}^{x:c} \mathbf{u} : {}^{x:c} \mathbf{u} = {}^{x:c} \gamma^{-1} \in W_{a:b} \wedge {}^{x:x} \gamma = {}^{x:x} \mathbf{u} \gamma = {}^{x:c} \mathbf{u} : {}^{x:c} \mathbf{u} = {}^{x:c} \gamma = c$$

$${}^a \gamma = b$$

$$a:b = \overset{a:b}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{a:b}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{a:a:b}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{a:c}{\gamma} \overset{-1}{\gamma} \mathbb{H} = \overset{a:c}{\mathbf{u}} : \overset{a:c}{\mathbf{u}} \Rightarrow \begin{cases} {}^{a:c} \mathbf{u} &= a \\ {}^a \gamma &= b \end{cases}$$

$${}^x\Psi = - {}^{x:\Psi^{-1}}_2 {}^{x:\Psi}_1$$

$${}^{x:\Psi}\mathcal{V} = c \Rightarrow 0 = {}^{x:\Psi}_1 + {}^x\Psi {}^{x:\Psi}_2$$