

$$\begin{array}{c}
 a|b \\
 \text{U} \\
 a|b
 \end{array}
 \xrightarrow{\quad \gamma \quad}
 \begin{array}{c}
 \text{stet} \\
 \Rightarrow \text{MWS} \quad \bigvee_{\bar{x}}^{\alpha|b} \underline{\gamma} = \frac{\underline{\gamma}_b - \underline{\gamma}_a}{b-a}
 \end{array}
 \xrightarrow{\quad \text{diff} \quad}
 \begin{array}{c}
 \gamma \\
 \text{U} \\
 a|b
 \end{array}$$

$$\begin{array}{c}
 a|b \\
 \text{U} \\
 a|b
 \end{array}
 \xrightarrow{\quad \gamma_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{stet}} \quad}
 \begin{array}{c}
 \text{R} \\
 \text{diff} \\
 \gamma
 \end{array}$$

$$\begin{aligned}
 & \overbrace{\underline{\gamma}_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{stet}}}^{\text{U}} = \underline{\gamma}_b - a \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{diff}} = \underline{\gamma}_b - a \underline{\gamma}^b = b \underline{\gamma}^a - b \underline{\gamma}_a \\
 & = \underline{\gamma}_b - b \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{U}} = \overbrace{\underline{\gamma}_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{diff}}}_{\text{R}}
 \end{aligned}$$

$$\xrightarrow{\text{ROL}} \bigvee_o^{\alpha|b} 0 = \overbrace{\underline{\gamma}_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{diff}}}_{\text{U}} = \overbrace{\underline{\gamma}_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{diff}}}_{\text{R}} = \overbrace{\underline{\gamma}_b - a - () \underbrace{\underline{\gamma}^b - \underline{\gamma}^a}_{\text{diff}}}_{\text{U} = 1}$$

$$\begin{array}{ccc}
 a \circ b & & \Rightarrow \bigvee_o^{a \mid b} \bar{x} \underbrace{\gamma^b \gamma - \gamma^a}_{\text{stet}} = \bar{x}' \underbrace{\gamma^b \gamma - \gamma^a}_{\text{diff}}
 \\ \text{U} & \xrightarrow{\quad \dot{\gamma} \quad} & \mathbb{R} \\
 a \mid b & \xrightarrow{\quad \dot{\gamma} \quad} &
 \end{array}$$

$$\begin{array}{ccc}
 a \circ b & & \gamma^b \gamma - \gamma^a \gamma - \gamma^b \gamma - \gamma^a \gamma \\
 & \xrightarrow{\quad \text{stet} \quad} & \\
 \text{U} & \xrightarrow{\quad \dot{\gamma} \quad} & \mathbb{R} \\
 a \mid b & \xrightarrow{\quad \dot{\gamma} \quad} &
 \end{array}$$

$$\begin{aligned}
 a \overbrace{\gamma^b \gamma - \gamma^a \gamma - \gamma^b \gamma - \gamma^a \gamma}^{\text{stet}} &= {}^a \gamma \underbrace{\gamma^b \gamma - \gamma^a \gamma}_{\text{diff}} = {}^a \gamma {}^b \gamma - {}^a \gamma {}^b \gamma = {}^a \gamma {}^b \gamma - {}^a \gamma {}^b \gamma = {}^b \gamma \underbrace{\gamma^a \gamma - \gamma^b \gamma}_{\text{diff}} \\
 &= \overbrace{{}^b \gamma^b \gamma - \gamma^b \gamma - \gamma^a \gamma}^{\text{stet}}
 \end{aligned}$$

$$\Rightarrow_{\text{ROL}} \bigvee_o^{a \mid b} 0 = \overbrace{\gamma^b \gamma - \gamma^a \gamma - \gamma^b \gamma - \gamma^a \gamma}^{\text{stet}} = \bar{x} \underbrace{\gamma^b \gamma - \gamma^a \gamma}_{\text{diff}} - \bar{x}' \underbrace{\gamma^b \gamma - \gamma^a \gamma}_{\text{diff}}$$

$$\mathbb{R} \ni I \xrightarrow[\text{diff}]{\gamma} \mathbb{R} \Rightarrow \bigwedge_{x:y}^I \overline{x\gamma - y\gamma} \leq \overline{x-y}^{x|y} \underline{\gamma}^\bullet$$

OE $x \neq y$

$$\begin{array}{ccc} \overline{x|y} & \searrow \gamma_{\text{stet}} & \\ \cup & & \Rightarrow \mathbb{R} \\ & \nearrow \gamma_{\text{diff}} & \\ \underline{x|y} & & \end{array}$$

$$\Rightarrow \bigvee_o^{x|y} {}^x\gamma - {}^y\gamma = \underbrace{x-y}_{o} \bar{\underline{\gamma}} \Rightarrow \overline{x\gamma - y\gamma} = \overline{x-y} \bar{\underline{\gamma}} \leq \overline{x-y}^{x|y} \underline{\gamma}^\bullet$$

$$\begin{cases} \mathbb{R} \ni I \xrightarrow[\text{diff}]{\gamma} \mathbb{R} \\ \overline{\underline{\gamma}} \leq M \text{ bes} \end{cases} \Rightarrow \mathbb{R} \ni I \xrightarrow[\text{u-stet}]{\gamma} \mathbb{R}$$

$$a \circ b \xrightarrow[\text{stet diff}]{\gamma} \mathbb{R} \xrightarrow{\text{LIP}} \bigvee_{M \geq 0} \bigwedge_{x:y} \overline{x\gamma - y\gamma} \leq \overline{x-y} M$$