$$(\mathbf{A} \times \{\bullet\}) \times \mathbf{B} \xrightarrow{\mathrm{dS}_{\mathbf{A}, \{\bullet\}, \mathbf{B}}} \mathbf{A} \times (\{\bullet\} \times \mathbf{B})$$

$$\mathrm{ru}_{\mathbf{A}} \times \mathrm{id}_{\mathbf{B}} \xrightarrow{\mathbf{A} \times \mathbf{B}} \mathrm{id}_{\mathbf{A}} \times \mathrm{lu}_{\mathbf{B}}$$

$$(a, b)$$