$$\langle\langle a, *\rangle, b\rangle \longmapsto \langle a, \langle *, b\rangle\rangle$$

$$(\mathbf{A} \times \{\bullet\}) \times \mathbf{B} \xrightarrow{\alpha_{\mathbf{A},\{\bullet\},\mathbf{B}}} \mathbf{A} \times (\{\bullet\} \times \mathbf{B})$$

$$\rho_{\mathbf{A}} \times \mathrm{id}_{\mathbf{B}} \qquad \mathrm{id}_{\mathbf{A}} \times \lambda_{\mathbf{B}}$$

$$\mathbf{A} \times \mathbf{B}$$

$$\langle a, b\rangle$$