$$\langle \langle c, 1 \rangle, 2 \rangle$$

$$as_{\mathbf{A}+\mathbf{B},\mathbf{C},\mathbf{D}} \qquad (\mathbf{A} + \mathbf{B}) + (\mathbf{C} + \mathbf{D})$$

$$as_{\mathbf{A},\mathbf{B},\mathbf{C}+\mathbf{D}} \qquad (\mathbf{A} + \mathbf{B} + \mathbf{C} + \mathbf{D}) \qquad (\langle \langle c, 1 \rangle, 2 \rangle, 2 \rangle$$

$$as_{\mathbf{A},\mathbf{B},\mathbf{C}} + Id_{\mathbf{D}} \downarrow \qquad \uparrow Id_{\mathbf{A}} + as_{\mathbf{B},\mathbf{C},\mathbf{D}} \qquad \uparrow Id_{\mathbf{A}} + as_{\mathbf{B},\mathbf{C},\mathbf{D}} \qquad (\mathbf{A} + (\mathbf{B} + \mathbf{C})) + \mathbf{D} \qquad as_{\mathbf{A},\mathbf{B}+\mathbf{C},\mathbf{D}} \qquad A + ((\mathbf{B} + \mathbf{C}) + \mathbf{D}) \qquad (\langle \langle c, 2 \rangle, 2 \rangle, 1 \rangle \qquad \bullet \qquad (\langle \langle c, 2 \rangle, 1 \rangle, 2 \rangle$$