



$$\text{Right } \oplus : \mathbf{R}_2 = \mathbf{R}_1 \oplus {}^1\omega_{12} = \mathbf{R}_1 \text{Exp}({}^1\omega_{12}) = \mathbf{R}_1 {}^1\delta\mathbf{R}_{12}$$

$$\text{Left } \oplus : \mathbf{R}_2 = {}^1\omega_{12} \oplus \mathbf{R}_1 = \text{Exp}({}^w\omega_{12})\mathbf{R}_1 = {}^w\delta\mathbf{R}_{12}\mathbf{R}_1$$