A general transformation is

$$\Phi = \psi^{\tilde{A}} \xi_{\tilde{A}} \rightarrow \Phi' = \mathrm{R}\,\Phi\,\mathrm{S} = \psi^{\tilde{A}} \xi'_{\tilde{A}} = \psi^{A} L_{A}{}^{B} \xi_{B} = \psi'^{B} \xi_{B}$$

Active transformation

where $\xi'_{\tilde{A}} = \mathrm{R}\,\xi_{\tilde{A}}\,\mathrm{S} = L_{\tilde{A}}{}^{\tilde{B}} \xi_{\tilde{B}}\,, \qquad \psi'^{\tilde{B}} = \psi^{\tilde{A}} L_{\tilde{A}}{}^{\tilde{B}}$

$\tilde{A} \equiv \alpha i$

$\alpha = 1,2,3,4$

$i = 1,2,3,4$

The transformation from the left,

$$\Phi' = \mathrm{R}\,\Phi$$

reshuffles the components within each left ideal, whereas the transformation from the right,

$$\Phi' = \Phi\,\mathrm{S}$$

reshuffles the left ideals.