

$${}^{\ell}\mathbb{C}_{2r}^* \rtimes G_{\mathbb{C}} \rightarrow {}^{\ell}\mathbb{C}_{2r}^*$$

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$$[\eta \ \xi] \frac{a \mid b}{d \mid c} = [\eta a + \xi d \ \eta b + \xi c]$$

$$[\eta \ \xi] \frac{1 \mid 0}{0 \mid -1} \begin{bmatrix} \eta^* \\ \xi^* \end{bmatrix} = \eta \eta^* - \xi \xi^*$$