$\vartheta{:}\underset{\sim}{\vartheta}$ Majorana-Weyl handed

$$\mathbb{R}^{1:1} \xrightarrow[X^\mu]{\vartheta:\underset{\sim}{\vartheta}} \mathbb{R}^{1:d|1}$$

$$\mathcal{L}\left(X^\mu{:}\vartheta{:}\underset{\sim}{\vartheta}\right) = \underbrace{\partial_i X^\mu - \bar{\vartheta}\Gamma^\mu\partial_i\vartheta}\,\eta_{\mu\nu}\,\underbrace{\partial_j X^\nu - \bar{\vartheta}\Gamma^\nu\partial_j\vartheta} + \varepsilon^{ij}\overbrace{\bar{\vartheta}\Gamma^\mu\partial_i\vartheta\eta_{\mu\nu}\bar{\underset{\sim}{\vartheta}}\Gamma^\nu\partial_j\underset{\sim}{\vartheta} - i\partial_i X^\mu\eta_{\mu\nu}\underbrace{\bar{\vartheta}\Gamma^\nu\partial_j\vartheta - \bar{\underset{\sim}{\vartheta}}\Gamma^\nu\partial_j\underset{\sim}{\vartheta}}}$$

$$\mathcal{L}\left(X^\mu{:}\vartheta\right) = \int\limits_{\mathbb{R}^{1:1}}^{d\sigma d\tau}\mathcal{L}\left(X^\mu{:}\vartheta\right)$$

$$= \int\limits_{\mathbb{R}^{1:1}}^{d\sigma d\tau}\underbrace{\partial_i X^\mu - \bar{\vartheta}\Gamma^\mu\partial_i\vartheta}\,\eta_{\mu\nu}\,\underbrace{\partial_j X^\nu - \bar{\vartheta}\Gamma^\nu\partial_j\vartheta} + \varepsilon^{ij}\overbrace{\bar{\vartheta}\Gamma^\mu\partial_i\vartheta\eta_{\mu\nu}\bar{\underset{\sim}{\vartheta}}\Gamma^\nu\partial_j\underset{\sim}{\vartheta} - i\partial_i X^\mu\eta_{\mu\nu}\underbrace{\bar{\vartheta}\Gamma^\nu\partial_j\vartheta - \bar{\underset{\sim}{\vartheta}}\Gamma^\nu\partial_j\underset{\sim}{\vartheta}}}$$