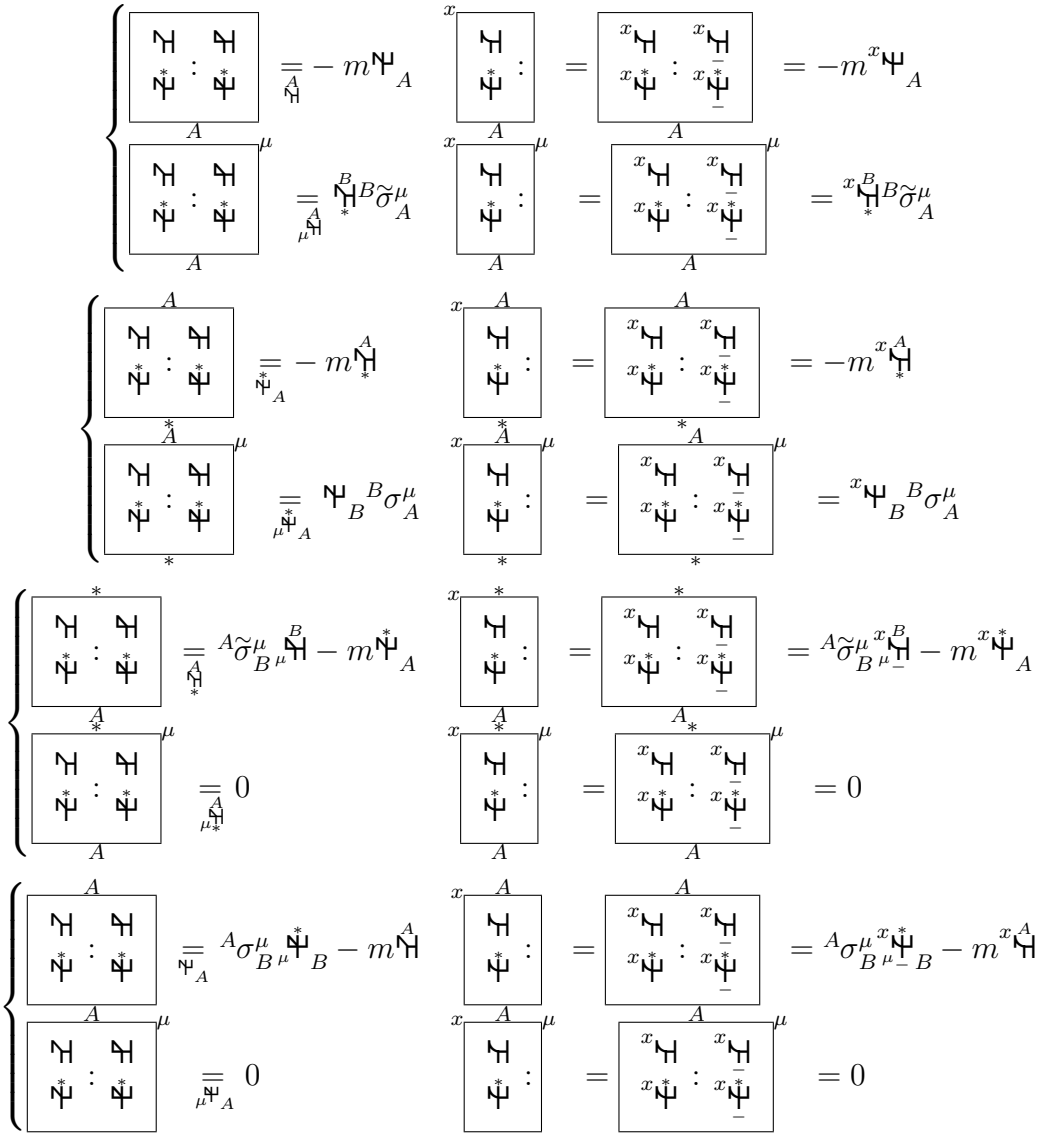

$$\left[\begin{array}{c|c} 0 & \sigma^{\mu} \\ \hline \widetilde{\sigma}^{\mu} & 0 \end{array}\right] \begin{bmatrix} {}^{x}\Psi_{\mu_{-}} \\ {}^{x}\Psi_{\dot{*}} \end{bmatrix} = m \begin{bmatrix} {}^{x}\Psi \\ {}^{x}\Psi_{\dot{*}} \end{bmatrix}$$

$$\left[\begin{array}{c|c} 0 & {}^{A}\sigma^{\mu}_{\ B} \\ \hline {}^{A}\widetilde{\sigma}^{\mu}_{B} & 0 \end{array}\right] \begin{bmatrix} {}^{x}\Psi^{B}_{\mu_{-}} \\ {}^{x}\Psi_{\dot{*}\,B} \end{bmatrix} = m \begin{bmatrix} {}^{x}\Psi^{A} \\ {}^{x}\Psi_{\dot{*}\,A} \end{bmatrix}$$

$$-m\,{}^{x}\Psi_{A} = \overset{x}{\boxed{\begin{array}{c} \Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}_{A} = \overset{x}{\underset{\mu}{\boxed{\begin{array}{c} \Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}}^{\mu}_{A} = {}^{x}\underset{\mu}{\Psi^{B}_{\dot{*}}}\,{}^{B}\widetilde{\sigma}^{\mu}_{A} = {}^{x}\underset{\mu}{\Psi^{B}_{\dot{*}}}\,{}^{B}\widetilde{\sigma}^{\mu}_{A}$$

$${}^{A}\widetilde{\sigma}^{\mu}_{B}\,{}^{x}\Psi^{B}_{\mu_{-}} - m\,{}^{x}\Psi^{*}_{A} = \overset{x}{\boxed{\begin{array}{c} {}^{*}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}_{A} = \overset{x}{\underset{\mu}{\boxed{\begin{array}{c} {}^{*}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}}^{\mu}_{A} = 0$$

$$-m\,{}^{x}\Psi^{A}_{*} = \overset{x}{\boxed{\begin{array}{c} {}^{A}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}_{*} = \overset{x}{\underset{\mu}{\boxed{\begin{array}{c} {}^{A}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}}^{\mu}_{*} = {}^{x}\underset{\mu}{\Psi_{B}}\,{}^{B}\sigma^{\mu}_{A} = {}^{x}\underset{\mu_{-}\,B}{\Psi}\,{}^{B}\sigma^{\mu}_{A}$$

$${}^{A}\sigma^{\mu}_{B}\,{}^{x}\Psi^{*}_{\mu_{-}\,B} - m\,{}^{x}\Psi^{A} = \overset{x}{\boxed{\begin{array}{c} {}^{A}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}} = \overset{x}{\underset{\mu}{\boxed{\begin{array}{c} {}^{A}\Psi \\ \Psi_{\dot{*}} \\ \vdots \end{array}}}}^{\mu} = 0$$