SVT

$$\begin{array}{lll} h_{\theta\theta} &=& -2\phi \\ \\ h_{\theta\mathbf{i}} &=& w_{\mathbf{i}} &=& \partial_{\mathbf{i}}B + B_{\mathbf{i}} \\ \\ h_{\mathbf{i}\mathbf{j}} &=& -2\psi + S_{\mathbf{i}\mathbf{j}} &=& -2\psi + 2\partial_{\mathbf{i}}\partial_{\mathbf{j}}E + \partial_{\mathbf{i}}E_{\mathbf{j}} + \partial_{\mathbf{j}}E_{\mathbf{i}} + 2E_{\mathbf{i}\mathbf{j}} \\ \\ \text{where} \\ \\ \partial_{\mathbf{i}}B^{\mathbf{i}} &=& \partial_{\mathbf{i}}E^{\mathbf{i}} &=& 0 \\ \\ \partial_{\mathbf{i}}E^{\mathbf{i}\mathbf{j}} &=& 0 \\ \\ \delta_{\mathbf{i}\mathbf{j}}E^{\mathbf{i}\mathbf{j}} &=& 0 \end{array}$$

No gauge, $\delta G_{\mu\nu}$ flat:

00	$\frac{1}{2} \partial_1 \partial_1 h_{00} - \frac{1}{2} \partial_1 \partial_1 h_{11} + \frac{\partial_1 \partial_1 h}{2} - \partial_2 \partial_1 h_{12} + \frac{1}{2} \partial_2 \partial_2 h_{00} - $
	$\frac{1}{2} \partial_2 \partial_2 h_{22} + \frac{\partial_2 \partial_2 h}{2} - \partial_3 \partial_1 h_{13} - \partial_3 \partial_2 h_{23} + \frac{1}{2} \partial_3 \partial_3 h_{00} - \frac{1}{2} \partial_3 \partial_3 h_{33} + \frac{\partial_3 \partial_3 h}{2}$
11	$\frac{1}{2} \partial_{0} \partial_{0} h_{00} - \frac{1}{2} \partial_{0} \partial_{0} h_{11} + \frac{\partial_{0} \partial_{0} h}{2} - \partial_{1} \partial_{0} h_{01} + h_{10} \partial_{1} \partial_{0} h_{01} - \partial_{2} \partial_{0} h_{02} +$
	$\frac{1}{2} \partial_2 \partial_2 h_{11} + \frac{1}{2} \partial_2 \partial_2 h_{22} - \frac{\partial_2 \partial_2 h}{2} - \partial_3 \partial_0 h_{03} + \partial_3 \partial_2 h_{23} + \frac{1}{2} \partial_3 \partial_3 h_{11} + \frac{1}{2} \partial_3 \partial_3 h_{33} - \frac{\partial_3 \partial_3 h}{2}$
22	$\frac{1}{2} \partial_{0} \partial_{0} h_{00} - \frac{1}{2} \partial_{0} \partial_{0} h_{22} + \frac{\partial_{0} \partial_{0} h}{2} - \partial_{1} \partial_{0} h_{01} + \frac{1}{2} \partial_{1} \partial_{1} h_{11} + \frac{1}{2} \partial_{1} \partial_{1} h_{22} - \frac{\partial_{1} \partial_{1} h}{2} - \frac{\partial_{1} \partial_{1} h$
	$\partial_{2}\partial_{0}h_{02} + h_{20} \partial_{2}\partial_{0}h_{02} - \partial_{3}\partial_{0}h_{03} + \partial_{3}\partial_{1}h_{13} + \frac{1}{2}\partial_{3}\partial_{3}h_{22} + \frac{1}{2}\partial_{3}\partial_{3}h_{33} - \frac{\partial_{3}\partial_{3}h}{2}$
33	$\frac{1}{2} \ \partial_{0} \partial_{0} h_{00} \ - \ \frac{1}{2} \ \partial_{0} \partial_{0} h_{33} \ + \ \frac{\partial_{0} \partial_{0} h}{2} \ - \ \partial_{1} \partial_{0} h_{01} \ + \ \frac{1}{2} \ \partial_{1} \partial_{1} h_{11} \ + \ \frac{1}{2} \ \partial_{1} \partial_{1} h_{33} \ - \ \frac{\partial_{1} \partial_{1} h}{2} \ - \ \partial_{1} \partial_{0} h_{01} \ + \ \frac{\partial_{0} \partial_{0} h}{2} \ + \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{13} \ - \ \partial_{1} \partial_{1} h_{13} \ - \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{12} \ + \ \partial_{1} \partial_{1} h_{13} \ - \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{11} \ + \ \partial_{1} \partial_{1} h_{12} \ + \ \partial_{1} \partial_{1} h_{13} \ - \ \partial_{1} \partial_{1} h_{12} \ + \ \partial_{1} \partial_{1} h_{13} \ + \ \partial$
	$\partial_{2}\partial_{\theta}h_{02} + \partial_{2}\partial_{1}h_{12} + \frac{1}{2}\partial_{2}\partial_{2}h_{22} + \frac{1}{2}\partial_{2}\partial_{2}h_{33} - \frac{\partial_{2}\partial_{2}h}{2} - \partial_{3}\partial_{\theta}h_{03} + h_{30}\partial_{3}\partial_{\theta}h_{03}$
01	$ \frac{1}{2} \partial_1 \partial_0 h_{00} - \frac{1}{2} \partial_1 \partial_0 h_{11} + \frac{\partial_1 \partial_0 h}{2} - \frac{1}{2} \partial_2 \partial_0 h_{12} - \frac{1}{2} \partial_2 \partial_1 h_{02} + \frac{1}{2} \partial_2 \partial_2 h_{01} - \frac{1}{2} \partial_3 \partial_0 h_{13} - \frac{1}{2} \partial_3 \partial_1 h_{03} + \frac{1}{2} \partial_3 \partial_3 h_{01} $
02	$-\frac{1}{2} \partial_1 \partial_0 h_{12} + \frac{1}{2} \partial_1 \partial_1 h_{02} + \frac{1}{2} \partial_2 \partial_0 h_{00} - \frac{1}{2} \partial_2 \partial_0 h_{22} + \frac{\partial_2 \partial_0 h}{2} - \frac{1}{2} \partial_2 \partial_1 h_{01} - \frac{1}{2} \partial_3 \partial_0 h_{23} - \frac{1}{2} \partial_3 \partial_2 h_{03} + \frac{1}{2} \partial_3 \partial_3 h_{02}$
03	$-\frac{1}{2} \partial_{1} \partial_{0} h_{13} + \frac{1}{2} \partial_{1} \partial_{1} h_{03} - \frac{1}{2} \partial_{2} \partial_{0} h_{23} + \frac{1}{2} \partial_{2} \partial_{2} h_{03} + \frac{1}{2} \partial_{3} \partial_{0} h_{00} - \frac{1}{2} \partial_{3} \partial_{0} h_{33} + \frac{\partial_{3} \partial_{0} h}{2} - \frac{1}{2} \partial_{3} \partial_{1} h_{01} - \frac{1}{2} \partial_{3} \partial_{2} h_{02}$
12	$ -\frac{1}{2} \partial_0 \partial_0 h_{12} + \frac{1}{2} \partial_1 \partial_0 h_{02} + \frac{1}{2} \partial_2 \partial_0 h_{01} - \frac{1}{2} \partial_2 \partial_1 h_{11} - \frac{1}{2} \partial_2 \partial_1 h_{22} + \frac{\partial_2 \partial_1 h}{2} - \frac{1}{2} \partial_3 \partial_1 h_{23} - \frac{1}{2} \partial_3 \partial_2 h_{13} + \frac{1}{2} \partial_3 \partial_3 h_{12} $
13	$-\frac{1}{2} \partial_{\theta} \partial_{\theta} h_{13} + \frac{1}{2} \partial_{1} \partial_{\theta} h_{\theta 3} - \frac{1}{2} \partial_{2} \partial_{1} h_{23} + \frac{1}{2} \partial_{2} \partial_{2} h_{13} + \frac{1}{2} \partial_{3} \partial_{\theta} h_{\theta 1} - \frac{1}{2} \partial_{3} \partial_{1} h_{11} - \frac{1}{2} \partial_{3} \partial_{1} h_{33} + \frac{\partial_{3} \partial_{1} h}{2} - \frac{1}{2} \partial_{3} \partial_{2} h_{12}$
23	$-\frac{1}{2} \partial_{\theta} \partial_{\theta} h_{23} + \frac{1}{2} \partial_{1} \partial_{1} h_{23} + \frac{1}{2} \partial_{2} \partial_{\theta} h_{03} - \frac{1}{2} \partial_{2} \partial_{1} h_{13} + \frac{1}{2} \partial_{3} \partial_{\theta} h_{02} - \frac{1}{2} \partial_{3} \partial_{1} h_{12} - \frac{1}{2} \partial_{3} \partial_{2} h_{22} - \frac{1}{2} \partial_{3} \partial_{2} h_{33} + \frac{\partial_{3} \partial_{2} h_{13}}{2} + \frac{\partial_{3} \partial_{1} h_{13}}{2} $

Now decompose into the form with ϕ , ψ , w_i , and S_{ij} .

Note that the trace condition is

```
"h = 2 \cdot ! \cdot ( \cdot *
InterpretationBox[
StyleBox[\"\phi\",
ShowAutoStyles->False,
{\tt AutoSpacing->False]} \text{,}
CellContext^{\phi}[]
InterpretationBox[
ShowAutoStyles->False,
AutoSpacing->False],
CellContext^\psi[],
\texttt{Editable} {-}{>} \texttt{False} \,] \, \backslash \,)
```

00	$-2 \partial^{\mathbf{i}} \partial_{\mathbf{i}} \psi - \frac{1}{2} \partial^{\mathbf{i}} \partial^{\mathbf{j}} S_{\mathbf{i}\mathbf{j}}$
11	$-2\ \partial_{0}\partial_{0}\psi - \partial_{2}\partial_{2}\phi + \partial_{2}\partial_{2}\psi - \partial_{3}\partial_{3}\phi + \partial_{3}\partial_{3}\psi - \frac{1}{2}\ \partial_{2}\partial_{0}\mathbf{w_{2}} - \frac{1}{2}\ \partial_{3}\partial_{0}\mathbf{w_{3}} - \frac{1}{2}\ \partial_{3}\partial_{0}\mathbf{w_{3}} - \frac{1}{2}\ \partial_{0}\partial_{0}\mathbf{w_{3}} - \frac{1}{2}\ \partial_{0}\partial_{0}\mathbf{w_{3}$
	$\frac{1}{2} \partial_0 \partial_0 S_{11} + \frac{1}{2} \partial_2 \partial_2 S_{11} + \frac{1}{2} \partial_2 \partial_2 S_{22} + \frac{1}{2} \partial_3 \partial_3 S_{11} + \partial_3 \partial_2 S_{23} + \frac{1}{2} \partial_3 \partial_3 S_{33}$
22	$-2\ \partial_{\boldsymbol{\theta}}\partial_{\boldsymbol{\theta}}\psi - \partial_{\boldsymbol{1}}\partial_{\boldsymbol{1}}\phi + \partial_{\boldsymbol{1}}\partial_{\boldsymbol{1}}\psi - \partial_{\boldsymbol{3}}\partial_{\boldsymbol{3}}\phi + \partial_{\boldsymbol{3}}\partial_{\boldsymbol{3}}\psi - \frac{1}{2}\ \partial_{\boldsymbol{1}}\partial_{\boldsymbol{\theta}}w_{\boldsymbol{1}} -$
	$\frac{1}{2} \partial_3 \partial_0 w_3 - \partial_0 \partial_0 S_{22} + \partial_1 \partial_1 S_{11} + \partial_1 \partial_1 S_{22} + 2 \partial_3 \partial_1 S_{13} + \partial_3 \partial_3 S_{22} + \partial_3 \partial_3 S_{33}$
33	$-2\ \partial_{\boldsymbol{\theta}}\partial_{\boldsymbol{\theta}}\psi - \partial_{\boldsymbol{1}}\partial_{\boldsymbol{1}}\phi + \partial_{\boldsymbol{1}}\partial_{\boldsymbol{1}}\psi - \partial_{\boldsymbol{2}}\partial_{\boldsymbol{2}}\phi + \partial_{\boldsymbol{2}}\partial_{\boldsymbol{2}}\psi - \frac{1}{2}\ \partial_{\boldsymbol{1}}\partial_{\boldsymbol{\theta}}\mathbf{w}_{\boldsymbol{1}} - \frac{1}{2}\ \partial_{\boldsymbol{2}}\partial_{\boldsymbol{\theta}}\mathbf{w}_{\boldsymbol{2}} -$
	$\frac{1}{2} \partial_0 \partial_0 S_{33} + \frac{1}{2} \partial_1 \partial_1 S_{11} + \frac{1}{2} \partial_1 \partial_1 S_{33} + \partial_2 \partial_1 S_{12} + \frac{1}{2} \partial_2 \partial_2 S_{22} + \frac{1}{2} \partial_2 \partial_2 S_{33}$
01	$-2 \partial_{1} \partial_{0} \psi - \frac{1}{2} \partial_{0} \partial^{i} S_{i1} - \frac{1}{4} \partial_{2} \partial_{1} w_{2} + \frac{1}{4} \partial_{2} \partial_{2} w_{1} - \frac{1}{4} \partial_{3} \partial_{1} w_{3} + \frac{1}{4} \partial_{3} \partial_{3} w_{1}$
02	$-2 \partial_2 \partial_0 \psi - \frac{1}{2} \partial_0 \partial^{\dot{1}} S_{\dot{1}\dot{2}} + \frac{1}{4} \partial_1 \partial_1 w_2 - \frac{1}{4} \partial_2 \partial_1 w_1 - \frac{1}{4} \partial_3 \partial_2 w_3 + \frac{1}{4} \partial_3 \partial_3 w_2$
03	$-2\ \partial_{3}\partial_{0}\psi - \frac{1}{2}\ \partial_{0}\partial^{i}S_{i3} \ + \frac{1}{4}\ \partial_{1}\partial_{1}w_{3} \ + \frac{1}{4}\ \partial_{2}\partial_{2}w_{3} \ - \frac{1}{4}\ \partial_{3}\partial_{1}w_{1} \ - \frac{1}{4}\ \partial_{3}\partial_{2}w_{2}$
12	$\partial_{2}\partial_{1}\phi - \partial_{2}\partial_{1}\psi + \frac{1}{4}\partial_{1}\partial_{0}w_{2} + \frac{1}{4}\partial_{2}\partial_{0}w_{1} - \frac{1}{2}\partial_{0}\partial_{0}S_{12} -$
	$\frac{1}{2} \partial_2 \partial_1 S_{11} - \frac{1}{2} \partial_2 \partial_1 S_{22} \frac{1}{2} - \partial_3 \partial_1 S_{23} - \frac{1}{2} \partial_3 \partial_2 S_{13} + \frac{1}{2} \partial_3 \partial_3 S_{12}$
13	$\partial_3\partial_1\phi - \partial_3\partial_1\psi + \frac{1}{4}\partial_1\partial_0w_3 + \frac{1}{4}\partial_3\partial_0w_1 - \frac{1}{2}\partial_0\partial_0S_{13} -$
	$\frac{1}{2} \partial_2 \partial_1 S_{23} + \frac{1}{2} \partial_2 \partial_2 S_{13} - \frac{1}{2} \partial_3 \partial_1 S_{11} - \frac{1}{2} \partial_3 \partial_1 S_{33} - \frac{1}{2} \partial_3 \partial_2 S_{12}$
23	$\partial_3\partial_2\phi - \partial_3\partial_2\psi + \frac{1}{4}\partial_2\partial_\theta\mathbf{w}_3 + \frac{1}{4}\partial_3\partial_\theta\mathbf{w}_2 - \frac{1}{2}\partial_\theta\partial_\theta\mathbf{S}_{23} +$
	$\frac{1}{2} \partial_1 \partial_1 S_{23} - \frac{1}{2} \partial_2 \partial_1 S_{13} - \frac{1}{2} \partial_3 \partial_1 S_{12} - \frac{1}{2} \partial_3 \partial_2 S_{22} - \frac{1}{2} \partial_3 \partial_2 S_{33}$

Now further decompose S_{ij} and w_i as given in the first equations.

(The following still needs to be compared to literature)

00	$-2\ \partial_1\partial_1\psi - \partial_1\partial_1\partial_1\partial_1E - 2\ \partial_2\partial_2\psi - 2\ \partial_2\partial_2\partial_1\partial_1E - \partial_2\partial_2\partial_2\partial_2E - 2\ \partial_3\partial_3\psi - 2\ \partial_3\partial_3\partial_1\partial_1E - 2\ \partial_3\partial_3\partial_2\partial_2E - \partial_3\partial_3\partial_3\partial_3E$
11	$-\partial_{\theta}\partial_{\theta}E_{11} - 2\partial_{\theta}\partial_{\theta}\psi + \tfrac{1}{2}\partial_{1}\partial_{\theta}B_{1} + \partial_{1}\partial_{1}E_{11} - \partial_{1}\partial_{1}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{2}E_{11} - \partial_{1}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}E + \partial_{2}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta}\partial_{\theta$
	$\partial_2\partial_2\phi + \partial_2\partial_2\psi - \frac{1}{2}\partial_2\partial_2\partial_0B - \partial_2\partial_2\partial_0\partial_0E + \partial_2\partial_2\partial_1\partial_1E + \partial_2\partial_2\partial_2\partial_2E + \partial_3\partial_3E_{\textcolor{red}{11}} -$
	$\partial_3\partial_3\phi + \partial_3\partial_3\psi - \frac{1}{2}\;\partial_3\partial_3\partial_0B - \partial_3\partial_3\partial_0\partial_0E + \partial_3\partial_3\partial_1\partial_1E + 2\;\partial_3\partial_3\partial_2\partial_2E + \partial_3\partial_3\partial_3\partial_3E$
22	$-\partial_{\theta}\partial_{\theta}E_{22} \ - \ 2\ \partial_{\theta}\partial_{\theta}\psi + \partial_{1}\partial_{1}E_{22} \ - \ \partial_{1}\partial_{1}\phi + \partial_{1}\partial_{1}\psi - \frac{1}{2}\ \partial_{1}\partial_{1}\partial_{\theta}B \ -$
	$\partial_{1}\partial_{1}\partial_{0}\partial_{0}E+\partial_{1}\partial_{1}\partial_{1}\partial_{1}E+\frac{1}{2}\partial_{2}\partial_{0}B_{2}+\partial_{2}\partial_{2}E_{22}-\partial_{2}\partial_{2}\partial_{0}\partial_{0}E+\partial_{2}\partial_{2}\partial_{1}\partial_{1}E+\partial_{3}\partial_{3}E_{22}-\partial_{1}\partial_{1}\partial_{1}\partial_{1}\partial_{1}\partial_{1}\partial_{1}\partial_{1}$
	$\partial_3\partial_3\phi + \partial_3\partial_3\psi - \frac{1}{2}\partial_3\partial_3\partial_0B - \partial_3\partial_3\partial_0\partial_0E + 2\partial_3\partial_3\partial_1\partial_1E + \partial_3\partial_3\partial_2\partial_2E + \partial_3\partial_3\partial_3\partial_3E$
33	$-\partial_{\theta}\partial_{\theta}E_{33} - 2\;\partial_{\theta}\partial_{\theta}\psi + \partial_{1}\partial_{1}E_{33} - \partial_{1}\partial_{1}\phi + \partial_{1}\partial_{1}\psi - \frac{1}{2}\;\partial_{1}\partial_{1}\partial_{\theta}B -$
	$\partial_1\partial_1\partial_0\partial_0E + \partial_1\partial_1\partial_1\partial_1E + \partial_2\partial_2E_{33} - \partial_2\partial_2\phi + \partial_2\partial_2\psi - \frac{1}{2}\partial_2\partial_2\partial_0B - \partial_2\partial_2\partial_0\partial_0E + \partial_1\partial_1\partial_1\partial_1E + \partial_2\partial_2E_{33} - \partial_2\partial_2\partial_0\phi + \partial_2\partial_2\psi - \frac{1}{2}\partial_2\partial_2\partial_0\phi - \partial_2\partial_2\partial_0\phi + \partial_2\partial_2\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\partial_0\phi - \partial_2\partial_2\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\partial_0\partial_0\phi - \partial_2\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial_0\partial$
	$2\ \partial_2\partial_2\partial_1\partial_1E + \partial_2\partial_2\partial_2\partial_2E + \frac{1}{2}\ \partial_3\partial_0B_3 + \partial_3\partial_3E_{33} - \partial_3\partial_3\partial_0\partial_0E + \partial_3\partial_3\partial_1\partial_1E + \partial_3\partial_3\partial_2\partial_2E$
01	$-2\ \partial_1\partial_0\psi + \frac{1}{4}\ \partial_1\partial_1B_1 - \partial_1\partial_1\partial_1\partial_0E + \frac{1}{4}\ \partial_2\partial_2B_1 - \partial_2\partial_2\partial_1\partial_0E + \frac{1}{4}\ \partial_3\partial_3B_1 - \partial_3\partial_3\partial_1\partial_0E$
02	$\frac{1}{4} \partial_1 \partial_1 B_2 - 2 \partial_2 \partial_0 \psi - \partial_2 \partial_1 \partial_1 \partial_0 E + \frac{1}{4} \partial_2 \partial_2 B_2 - \partial_2 \partial_2 \partial_2 \partial_0 E + \frac{1}{4} \partial_3 \partial_3 B_2 - \partial_3 \partial_3 \partial_2 \partial_0 E$
03	$\frac{1}{4} \partial_1 \partial_1 B_3 + \frac{1}{4} \partial_2 \partial_2 B_3 - 2 \partial_3 \partial_0 \psi - \partial_3 \partial_1 \partial_1 \partial_0 E - \partial_3 \partial_2 \partial_2 \partial_0 E + \frac{1}{4} \partial_3 \partial_3 B_3 - \partial_3 \partial_3 \partial_3 \partial_0 E$
12	$-\partial_{\boldsymbol{\theta}}\partial_{\boldsymbol{\theta}}E_{\boldsymbol{12}} + \frac{1}{4}\partial_{\boldsymbol{1}}\partial_{\boldsymbol{\theta}}B_{\boldsymbol{2}} + \partial_{\boldsymbol{1}}\partial_{\boldsymbol{1}}E_{\boldsymbol{12}} + \frac{1}{4}\partial_{\boldsymbol{2}}\partial_{\boldsymbol{\theta}}B_{\boldsymbol{1}} + \partial_{\boldsymbol{2}}\partial_{\boldsymbol{1}}\phi - \partial_{\boldsymbol{2}}\partial_{\boldsymbol{1}}\psi +$
	$\frac{1}{2} \partial_2 \partial_1 \partial_0 B - \partial_2 \partial_1 \partial_1 \partial_1 E + \partial_2 \partial_2 E_{12} - \partial_2 \partial_2 \partial_2 \partial_1 E + \partial_3 \partial_3 E_{12} - \partial_3 \partial_3 \partial_2 \partial_1 E$
13	$-\partial_{0}\partial_{0}E_{13} + \frac{1}{4}\partial_{1}\partial_{0}B_{3} + \partial_{1}\partial_{1}E_{13} + \partial_{2}\partial_{2}E_{13} + \frac{1}{4}\partial_{3}\partial_{0}B_{1} +$
	$\partial_3\partial_1\phi - \partial_3\partial_1\psi + \frac{1}{2}\partial_3\partial_1\partial_\thetaB - \partial_3\partial_1\partial_1\partial_1E - \partial_3\partial_2\partial_2\partial_1E + \partial_3\partial_3E_{13} - \partial_3\partial_3\partial_3\partial_1E$
23	$-\partial_{0}\partial_{0}E_{23} + \partial_{1}\partial_{1}E_{23} + \frac{1}{4}\partial_{2}\partial_{0}B_{3} + \partial_{2}\partial_{2}E_{23} + \frac{1}{4}\partial_{3}\partial_{0}B_{2} +$
	$\partial_3\partial_2\phi - \partial_3\partial_2\psi + \frac{1}{2}\partial_3\partial_2\partial_\thetaB - \partial_3\partial_2\partial_1\partial_1E - \partial_3\partial_2\partial_2\partial_2E + \partial_3\partial_3E_{23} - \partial_3\partial_3\partial_3\partial_2E$