

Cartesian SVT

Metric

$$h_{\theta\theta} = -2\phi$$

$$h_{\theta i} = \nabla_i \mathbf{B} + \mathbf{B}_i$$

$$h_{ij} = -2\psi + 2\nabla_i \nabla_j \mathbf{E} + \nabla_i \mathbf{E}_j + \nabla_j \mathbf{E}_i + 2\mathbf{E}_{ij}$$

Conditions

$$\partial_i \mathbf{B}^i = \partial_i \mathbf{E}^i = 0$$

$$\partial_i \mathbf{E}^{ij} = 0$$

$$\delta_{ij} \mathbf{E}^{ij} = 0$$

Scalar Laplacian

$$\nabla^2 = \partial_1 \partial_1 + \partial_2 \partial_2 + \partial_3 \partial_3$$

$$\delta G_{\mu\nu} \Omega=1$$

$\theta\theta$	$(-2 \nabla^2 \psi) + (\theta) + (\theta)$
11	$(-\nabla^2 \phi + \nabla^2 \psi - \nabla^2 \partial_\theta \mathbf{B} + \nabla^2 \partial_\theta \partial_\theta \mathbf{E} - 2 \partial_\theta \partial_\theta \psi + \partial_1 \partial_1 \phi - \partial_1 \partial_1 \psi + \partial_1 \partial_1 \partial_\theta \mathbf{B} - \partial_1 \partial_1 \partial_\theta \partial_\theta \mathbf{E}) + (\partial_1 \partial_\theta \mathbf{B}_1 - \partial_1 \partial_\theta \partial_\theta \mathbf{E}_1) + (\nabla^2 \mathbf{E}_{11} - \partial_\theta \partial_\theta \mathbf{E}_{11})$
22	$(-\nabla^2 \phi + \nabla^2 \psi - \nabla^2 \partial_\theta \mathbf{B} + \nabla^2 \partial_\theta \partial_\theta \mathbf{E} - 2 \partial_\theta \partial_\theta \psi + \partial_2 \partial_2 \phi - \partial_2 \partial_2 \psi + \partial_2 \partial_2 \partial_\theta \mathbf{B} - \partial_2 \partial_2 \partial_\theta \partial_\theta \mathbf{E}) + (\partial_2 \partial_\theta \mathbf{B}_2 - \partial_2 \partial_\theta \partial_\theta \mathbf{E}_2) + (\nabla^2 \mathbf{E}_{22} - \partial_\theta \partial_\theta \mathbf{E}_{22})$
33	$(-\nabla^2 \phi + \nabla^2 \psi - \nabla^2 \partial_\theta \mathbf{B} + \nabla^2 \partial_\theta \partial_\theta \mathbf{E} - 2 \partial_\theta \partial_\theta \psi + \partial_3 \partial_3 \phi - \partial_3 \partial_3 \psi + \partial_3 \partial_3 \partial_\theta \mathbf{B} - \partial_3 \partial_3 \partial_\theta \partial_\theta \mathbf{E}) + (\partial_3 \partial_\theta \mathbf{B}_3 - \partial_3 \partial_\theta \partial_\theta \mathbf{E}_3) + (\nabla^2 \mathbf{E}_{33} - \partial_\theta \partial_\theta \mathbf{E}_{33})$
$\theta 1$	$(-2 \partial_1 \partial_\theta \psi) + (\frac{\nabla^2 \mathbf{B}_1}{2} - \frac{1}{2} \nabla^2 \partial_\theta \mathbf{E}_1) + (\theta)$
$\theta 2$	$(-2 \partial_2 \partial_\theta \psi) + (\frac{\nabla^2 \mathbf{B}_2}{2} - \frac{1}{2} \nabla^2 \partial_\theta \mathbf{E}_2) + (\theta)$
$\theta 3$	$(-2 \partial_3 \partial_\theta \psi) + (\frac{\nabla^2 \mathbf{B}_3}{2} - \frac{1}{2} \nabla^2 \partial_\theta \mathbf{E}_3) + (\theta)$
12	$(\partial_2 \partial_1 \phi - \partial_2 \partial_1 \psi + \partial_2 \partial_1 \partial_\theta \mathbf{B} - \partial_2 \partial_1 \partial_\theta \partial_\theta \mathbf{E}) + (\frac{1}{2} \partial_1 \partial_\theta \mathbf{B}_2 - \frac{1}{2} \partial_1 \partial_\theta \partial_\theta \mathbf{E}_2 + \frac{1}{2} \partial_2 \partial_\theta \mathbf{B}_1 - \frac{1}{2} \partial_2 \partial_\theta \partial_\theta \mathbf{E}_1) + (\nabla^2 \mathbf{E}_{12} - \partial_\theta \partial_\theta \mathbf{E}_{12})$
13	$(\partial_3 \partial_1 \phi - \partial_3 \partial_1 \psi + \partial_3 \partial_1 \partial_\theta \mathbf{B} - \partial_3 \partial_1 \partial_\theta \partial_\theta \mathbf{E}) + (\frac{1}{2} \partial_1 \partial_\theta \mathbf{B}_3 - \frac{1}{2} \partial_1 \partial_\theta \partial_\theta \mathbf{E}_3 + \frac{1}{2} \partial_3 \partial_\theta \mathbf{B}_1 - \frac{1}{2} \partial_3 \partial_\theta \partial_\theta \mathbf{E}_1) + (\nabla^2 \mathbf{E}_{13} - \partial_\theta \partial_\theta \mathbf{E}_{13})$
23	$(\partial_3 \partial_2 \phi - \partial_3 \partial_2 \psi + \partial_3 \partial_2 \partial_\theta \mathbf{B} - \partial_3 \partial_2 \partial_\theta \partial_\theta \mathbf{E}) + (\frac{1}{2} \partial_2 \partial_\theta \mathbf{B}_3 - \frac{1}{2} \partial_2 \partial_\theta \partial_\theta \mathbf{E}_3 + \frac{1}{2} \partial_3 \partial_\theta \mathbf{B}_2 - \frac{1}{2} \partial_3 \partial_\theta \partial_\theta \mathbf{E}_2) + (\nabla^2 \mathbf{E}_{23} - \partial_\theta \partial_\theta \mathbf{E}_{23})$

$$\delta G_{\mu\nu} \Omega = \Omega(t)$$

[illegible]

$$\delta W_{\mu\nu} \quad \Omega = 1$$

[illegible]

$$\delta W_{\mu\nu} \quad \Omega = \Omega(t)$$

[illegible]