

**6.1 Derivative of  $S^{\mu\nu}$ .**

Replace in the second term the Christoffel symbol by a derivative of the metric tensor,

$$\nabla_\mu S^\mu{}_\nu = \frac{1}{\sqrt{|g|}} \partial_\mu (\sqrt{|g|} S^\mu{}_\nu) - \frac{1}{2} (\partial_\nu g_{\mu\lambda}) S^{\mu\lambda}. \quad (150)$$