

$$\nabla^b \nabla^a F_{ab} = -4\pi \nabla^b j_b$$

$$\frac{-1}{4\pi} \nabla^b \nabla^a F_{ab} = \nabla^b j_b = \nabla_b j^b$$

$$\left. \begin{aligned} \nabla^b j_b &= g^{ab} \nabla_a j_b \\ &= \nabla_a (g^{ab} j_b) \\ &= \nabla_a j^a \end{aligned} \right\}$$

Show that $\nabla^b \nabla^a F_{ab} = 0$

$$\nabla^b \nabla^a F_{ab} + \nabla^a \nabla^b F_{ba} = -4\pi (\nabla^b j_b + \nabla^a j_a)$$

$$= -8\pi \nabla^b j_b$$

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