

Known typos for "*The classical and quantum photon field for non-compact manifolds with boundary and in possibly inhomogeneous media*" by Alexander Strohmaier I would like to thank Yan-Long Fang for pointing out a sign mismatch in the definition of the stress energy tensor. I also thank Chris Fewster for convincing me that T_{00} , rather than T_0^0 should always be defined to be positive on physical grounds, independent of the sign convention.

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- an unconventional sign convention was used for the stress energy tensor (namely the formula for signature $(+,-)$ was used in our signature). With the usual convention the main formula in Theorem 6.4 should have a reversed sign.
- Mayer-Vietoris sometimes is misspelled as Meyer-Vietoris.
- In the example of Section 3.2.1 the Mayer-Vietoris sequence should be

$$0 = H_0^0(\mathbb{R}^3) \rightarrow H_0^1(U \cap V) \rightarrow H_0^1(\Sigma) \oplus H_0^1(U) \rightarrow H_0^1(\mathbb{R}^3) = 0.$$

This does not change the conclusion but confusingly the arrow is the wrong way.

- Similarly the Mayer-Vietoris in Section 3.2.3 should have been

$$\begin{aligned} 0 &\rightarrow H_0^1(U \cap V) \rightarrow H_0^1(\Sigma) \rightarrow 0, \\ 0 &\rightarrow H_0^2(U \cap V) \rightarrow H_0^2(\Sigma) \oplus H_0^2(U) \rightarrow 0 \end{aligned}$$

This does not change the conclusion but confusingly the arrow is the wrong way.

- finally, in Section 3.2.4 the Mayer-Vietoris sequence should have been

$$\begin{aligned} 0 &\rightarrow H_0^1(U \cap V) \rightarrow H_0^1(\Sigma) \rightarrow 0, \\ 0 &\rightarrow H_0^2(U \cap V) \rightarrow H_0^2(\Sigma) \oplus H_0^2(U) \rightarrow 0. \end{aligned}$$

This does not change the conclusion but confusingly the arrow is the wrong way.

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