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Erratum

Non-Existence of Axially Symmetric Massive Scalar Fields

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Page 165: 4th line onwards from the top reads as follows:

Which in view of (3.4) implies

$$-\mu^2 V^2 + g^{11} g^{44} (F_{14})^2 - g^{22} g^{33} (F_{23})^2 = 0. \quad (3.5)$$

Since g^{11} , g^{22} , g^{33} are all negative and g^{44} is positive, (3.5) will hold iff

$$\mu = 0, \quad F_{14} = 0, \quad F_{23} = 0. \quad (3.6)$$

Hence, there cannot exist any solution for the coupled electromagnetic and massive scalar fields for the metric (2.1).

The rest of the calculations are unnecessary and may, therefore, be ignored.