Erratum: Optimal and secure measurement protocols for quantum sensor networks **[Phys. Rev. A 97, 042337 (2018)]**

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Section IV B 1 contains an error in the probability distributions defined in Eq. (50). Specifically, the probability distribution is only well defined in the case where $\alpha_j \in \{1, 0, -1\}$ for all j s; otherwise, at least, one “probability” is negative. Proper probability distributions and, therefore, valid protocols may be derived using the methods developed in Refs. [1,2]. In particular, the set of states considered in Eqs. (46) and (47) of our paper are the same states used in both these works. Therefore, the protocols derived in Sec. V of Ref. [1] and in Ref. [2] are valid in our setting as well.

This error does not affect any of the main conclusions of the article.

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- [1] J. A. Gross and C. M. Caves, [J. Phys. A: Math. Theor.](#) **54**, 014001 (2021).
 - [2] A. Ehrenberg, J. Bringewatt, and A. V. Gorshkov, [arXiv:2110.07613](#).