**Erratum: Minimax strategy in quantum signal detection with inconclusive results
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The sentence including Eq. (6), which starts with “From the minimax theorem ...,” should read as follows: “Assume that $\Pi^* \in \mathcal{M}$ and $\xi^* \in \mathcal{X}$ satisfy

$$\max_{\Pi \in \mathcal{M}} P_C(\xi^*, \Pi) = P_C(\xi^*, \Pi^*) = \min_{\xi \in \mathcal{X}} P_C(\xi, \Pi^*). \quad (6)$$

From the minimax theorem (e.g., [23]), such (ξ^*, Π^*) exists and we have [4,7]

$$\min_{\xi \in \mathcal{X}} \max_{\Pi \in \mathcal{M}} P_C(\xi, \Pi) = P_C(\xi^*, \Pi^*) = \max_{\Pi \in \mathcal{M}} \min_{\xi \in \mathcal{X}} P_C(\xi, \Pi)."$$

The sentence including Eq. (11), which starts with “From the minimax theorem ...,” should read as follows: “Assume that $\Pi^* \in \mathcal{M}_p$ and $\xi^* \in \mathcal{X}$ satisfy

$$\max_{\Pi \in \mathcal{M}_p} P_{CI}(\xi^*, \Pi) = P_{CI}(\xi^*, \Pi^*) = \min_{\xi \in \mathcal{X}} P_{CI}(\xi, \Pi^*). \quad (11)$$

From the minimax theorem, such (ξ^*, Π^*) exists and we have

$$\min_{\xi \in \mathcal{X}} \max_{\Pi \in \mathcal{M}_p} P_{CI}(\xi, \Pi) = P_{CI}(\xi^*, \Pi^*) = \max_{\Pi \in \mathcal{M}_p} \min_{\xi \in \mathcal{X}} P_{CI}(\xi, \Pi)."$$

The sentence including Eq. (12), which starts with “The minimax theorem also ensures ...,” should be removed.