

**Erratum: Necessary and Sufficient Condition for Randomness Certification
from Incompatibility
[Phys. Rev. Lett. 135, 060201 (2025)]**

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(Received 3 April 2026; published 7 May 2026)

DOI: [10.1103/913s-yvsw](https://doi.org/10.1103/913s-yvsw)

In Result 4, the condition $\mathcal{C}_A \supseteq K_{s,m-s}(X)$ appearing in the definition of $\mathcal{R}_X^S$ should be further constrained. Specifically, for a compatible set of measurements X , let $\mathcal{X}$ denote a parent positive operator valued measure (POVM) of X . Then $\mathcal{R}_X^S$ should be redefined as

$$\mathcal{R}_X^S := \left\{ \sigma_{a|x} : \sum_a \sigma_{a|x} = \sum_a \sigma_{a|x'}, \forall x, x', \mathcal{C}_{\{\mathcal{X}\} \cup \{1, \dots, m\} \setminus X} \supseteq K_{1,m-s}(\mathcal{X}) \right\}. \quad (1)$$

The modification in Eq. (1) requires that the parent POVM $\mathcal{X}$ be individually compatible with each of the remaining measurements in $\{1, \dots, m\} \setminus X$. With this modified definition, the proof given in Supplemental Material [1] remains valid for Result 4. This correction does not affect the main findings or conclusions of the Letter.

Acknowledgments—We thank Edwin Peter Lobo and Stefano Pironio for bringing this point to our attention.

Data availability—No data were created or analyzed in this study.

[1] See Supplemental Material at <http://link.aps.org/supplemental/10.1103/913s-yvsw>.