

Erratum: “Resonant photodetector for cavity- and phase-locking of squeezed state generation” [Rev. Sci. Instrum. 87, 103114 (2016)]

Chaoyong Chen, Zhixiu Li, Xiaoli Jin, and Yaohui Zheng

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In the original paper,¹ Fig. 5 is based on the studies of Sebastian Steinlechner and Tobias Gehring, who provide the initial idea and schematic for the electronics design. Here we would like to add their Ph.D. theses^{2,3} as references.

In the fourth paragraph of the introduction, the sentence “Driven by the requirement of quantum optics experiments, a high-gain, multi-function photodetector is designed based on the parallel resonant and 2-way 90° power splitter circuits.” should be revised as follows:

Driven by the requirement of quantum optics experiments, a high-gain, multi-function photodetector is studied based on the parallel resonant and 2-way 90° power splitter circuits.

In the conclusion, the sentence “In order to improve the locking performance on the premise of not affecting the squeezing degree, we design a high-gain photodetector based on the LC parallel resonant circuit.” should be revised as follows:

In order to improve the locking performance on the premise of not affecting the squeezing degree, we study a high-gain photodetector based on the LC parallel resonant circuit.

¹C. Chen, Z. Li, X. Jin, and Y. Zheng, *Rev. Sci. Instrum.* **87**, 103114 (2016).

²S. Steinlechner, “Quantum metrology with squeezed and entangled light for the detection of gravitational waves,” Ph.D. dissertation (Leibniz Universität Hannover, Germany, 2013).

³T. Eberle, “Realization of finite-size quantum key distribution based on Einstein Podolsky-Rosen entangled light,” Ph.D. dissertation (Leibniz Universität Hannover, Germany, 2013).