



Corrigendum Notice: A corrigendum has been issued for this article and is included at the end of this document.

Post-Publication Notice

Corrigendum to “V. Myasnikov, “Efficient Light Coupling and Propagation in Fiber Optic Systems”, tbusphys, vol. 2, no. 3, p. 0017, Sept. 2024. doi: 10.54355/tbusphys/2.3.2024.0017”

In the originally published version of this article, certain illustrations were missing or lacked clarity, and a reference required updating. The following corrections have been made:

1. Statistical Data Processing: The updated version includes details on data analysis techniques, specifically:

- Repetition of each measurement five times to ensure reliability;
- Calculation of arithmetic mean, standard deviation, and coefficient of variation for recorded data;

- Use of one-way ANOVA for statistical significance testing;
- Data processing and plotting using Python (NumPy, SciPy, Matplotlib) and OriginPro 2023.

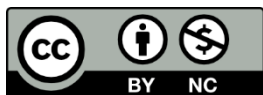
2. Equipment and Materials Origin: The updated text specifies the manufacturers and models of key equipment used:

- Laser diode: Thorlabs L785P050 (50 mW), mounted in Thorlabs TCLDM9;
- Optical components (microscope objectives, translation stages): Thorlabs and Newport;
- Single-mode fiber: SMF-28e supplied by Corning;
- Photodetector: Thorlabs FDS100 silicon PIN photodiode with PDA200C preamplifier;
- Oscilloscope: Tektronix TBS1102B digital model.

3. Figures: Illustrations 5, 9, 10, 11, 13, 14, and 15 have been improved or newly added to provide clearer visualization of experimental setups, beam propagation characteristics, and laser coupling efficiency.

4. Reference Update: The reference “J. A. Makuch, “Fiber optics component testing: Requirements and trends-fibers, cables, connectors,” Proc. SPIE - Int. Soc. Opt. Eng., vol. 355, pp. 107–110, Mar. 1983” has been replaced with a more recent and relevant source: “H. Yum, X. Liu, Y. J. Jang, M. E. Kim, and S. M. Shahriar, “Pulse delay via tunable white light cavities using fiber-optic resonators,” J. Light. Technol., vol. 29, no. 18, pp. 2698–2705, 2011, doi:10.1109/JLT.2011.2162090”.

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