

Iso-propagation vortices with OAM-independent size and divergence toward future faster optical communications (Erratum)

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This erratum addresses a typographical oversight in the originally published article [*Adv. Photon.* **6**(3), 036002 (2024) doi: [10.1117/1.AP.6.3.036002](https://doi.org/10.1117/1.AP.6.3.036002)], where a reference citation was inadvertently omitted.

The reference, which elucidates the limitations imposed by the inevitable increase in beam size and divergence of conventional vortex beams on the capacity potential of contemporary spatial mode-division multiplexing, has been added to the published article. It is now included in the caption of Figure 1 as follows:

(d) Receivers with limited size obstruct the passage of OAM beams having large l values due to increasing beam size and

divergence as the mode index grows.¹⁴ However, (e) IPV's of any l can easily traverse because of their OAM-independent propagation characteristics, maintaining their structure even after turbulence or obstacles.¹⁴

The original reference list has been renumbered to include the added citation. The article was corrected and republished on 23 July 2024.

This correction ensures the technical accuracy of the details provided and does not affect the findings or conclusions of the original paper.