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Evolution of the optical vortex density in phase corrected speckle fields

We numerically investigate the evolution of the optical vortex density in a speckle field after its continuous phase is removed, in other words, after it has been phase corrected. We found that it initially drops to 70% and then increases to 88% of the initial density. The rate of decrease is an order of magnitude faster than the rate of increase.

Primary author: Dr ROUX, Filippus (CSIR National Laser Centre)

Co-author: Dr CHEN, Mingzhou (Applied Optics, School of Physics, National University of Ireland-Galway)

Presenter: Dr ROUX, Filippus (CSIR National Laser Centre)

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