"Twisted Light"

Your topic here, please

Your name

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Abstract

Here, please, briefly summarize your work and conclusions.

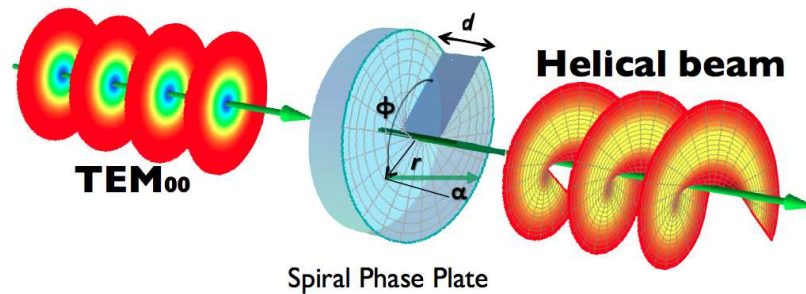# 1 Introduction

...

2 Theoretical background

...

Figure 1: Generation of vortex beams by means of spiral phase plates.

Table 1: Comparison of different vortex beams.

Type	Short characterization
Bessel beams[1]	Field of electromagnetic, acoustic or even gravitational radiation whose amplitude is described by a Bessel function of the first kind (Wikipedia, 2014).
...	...

2.1 Generation of vortrex beams

$$|\psi\rangle = a\,|0\rangle + b\,|1\rangle \equiv a \begin{pmatrix} 1 \\ 0 \end{pmatrix} + b \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} a \\ b \end{pmatrix}, \tag{1}$$

in which the state $|\psi\rangle$ ...

3 Examples

4 ...

5 Summary and outlook

A short overview is given ...

References

[1] D. L. Andrews und M. Babiker (Eds.), *The Angular Momentum of Light* (Cambridge University Press, 2012).

[2] L. K. Grover, Phys. Rev. Lett. 79 (1997) 325.

[3] D. Redfern, *The Maple Handbook* (Springer, New York, 1996).

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[1]A complete list of all ...

Appendix A: Derivation of ...