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Collinear non-diffracting beams: Classification and properties

(Conference Paper)

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Non-diffracting laser modes and interfering non-diffracting beams have been extensively studied. Interfering nondiffracting beams generate novel laser modes. In this paper we accumulate various interfering conditions for nondiffracting beams and discuss the properties of the resultant beam. Contrasting intensity profiles and topological charge distribution are obtained on varying interfering conditions. Collinear propagation of non-diffracting laser beams is also reported. © 2010 Copyright SPIE - The International Society for Optical Engineering.

Author keywords

Bessel beams; Collinear Bessel beams; Helicon beams; Non-diffracting beams

Indexed keywords

Bessel beam; Intensity profiles; Non-diffracting beams; Nondiffracting; Nondiffracting beam; Topological charges

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