YoAhorroEnergia Data Infrastructure

Optical Cross-Box Ring Formation

Overview

Here, we report an experimental realization of RDS generation in a two-dimensional atomic superfluid trapped in a circular box. By quenching the confining box potential, we observe an RDS emitted from the edge and its peculiar signature in the radial motion. One of the quintessential objects is a ring dark soliton (RDS), whose dynamics are expected to display remarkable interplay between symmetry and self-patterned topological defect formation from a transverse (snake) instability, but it has thus far evaded full experimental observations. The convex surface of a long focal length lens (large radius of curvature) is placed in contact with a plane glass disk and clamped together, as shown in cross. The Laboratory of Laser Measurement, Image Processing Systems Institute of RAS—Branch of the FSRC “Crystallography and Photonics” RAS, 443001 Samara, Russia Features of the diffraction of Gaussian beams and Laguerre–Gaussian modes on subwavelength optical 3D microstructures with variable relief. In this paper, an overview of the optical ring resonators operation principle, fabrication and applications is presented. Emphasis was given for their add/drop functionality in Wavelength Division Multiplexing (WDM) networks.

Optical Cross-Box Ring Formation

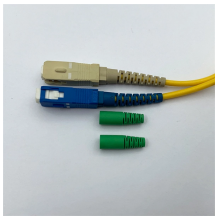
Here, we demonstrate the formation of a ring-shaped dark soliton that emerges from the interaction between an optical circular box and a superfluid trapped within and the soliton''s evolution ...

The features of diffraction of Gaussian and super-Gaussian beams, as well as optical vortices with circular polarization on silicon 3D microstructures with variable heights of individual ...

Abstract: Bidirectional optical cross connects (BOXCs) using a single arrayed waveguide grating router and tunable fiber Bragg gratings (FBGs) have been proposed for multiwavelength ...

This work was devoted to analyzing the characteristic formation of the circular-ring pattern. In fact, the observed results can be explained by computer experiments (FDTD method) and ...

Here, we demonstrate the formation of a ring-shaped dark soliton that emerges from the interaction between an optical circular box and a superfluid ...



The 50 mm Nikon lens with a 5 mm extension ring will nicely frame the small apparatus. The 35" Mitsubishi monitor will give the truest colors; the rear-projection video is pretty good and doesn''t use ...

This paper presents a review in the progress of optical ring resonators with the aim of modelling the crosstalk in OADMs.

Composite optical microcavities, as a versatile platform for light manipulation, have been theoretically revealed that the configuration of ...

The formation conditions and the characteristics of COV are discussed. We believe that the development of coaxial compound vortex beams will facilitate the development of complex ...

Composite optical microcavities, as a versatile platform for light manipulation, have been theoretically revealed that the configuration of concentrically coupled resonant trajectories can ...

In the following chapter, the ring resonator simulation model is described beginning with the basic notch configuration and adding more bus waveguides and ring resonators to eventually ...

	A silicon cross-coupled double-ring resonator system is proposed and fabricated for an optical multistability application, which consists of a racetrack resonator, a cross-coupled microring ...

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