

Generation of Vortex Dipole from doubly resonating optical parametric oscillator

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In recent times, vortex dipoles have created a lot of interest in studying in propagation dynamics and optical vortex meteorology. Typically, optical vortex dipoles are created using holographic techniques. Generation of pattern formation is observed in different fields from biological samples to optics. In nonlinear optics generation of pattern formation is intensively studied theoretically as well as experimentally. But recently by using the method of pattern formation in optics, we have generated the vortex dipole using an optical parametric oscillator (OPO).