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Sorting Orbital Angular Momentum states of light

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Abstract content
 (Max 300 words)

The detection of the orbital angular momentum (OAM) states of light remains an experimental challenge. Recently an OAM-sorting device was proposed for the separation and simultaneous detection of arbitrary OAM states. In this paper we demonstrate this technique experimentally with spatial light modulators, and extend the sorting device to the detection of high-order Bessel beams. Such fields are non-diffracting and carry non-zero values of OAM.

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