Title:	Estimation of dislocated phases in wavefronts through intensity measurements using a Gerchberg–Saxton type algorithm
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Abstract:	Estimation of the phase of a singular paraxial light field from experimentally measured intensities using a Gerchberg–Saxton type algorithm is demonstrated. A combination of cylindrical lenses which does not conserve the orbital angular momentum of the light field is used in obtaining the measured intensities. Consistent extraction of the phases in regard of the orbital angular momentum is demonstrated both at the input and output transverse planes, using the measured intensities.
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