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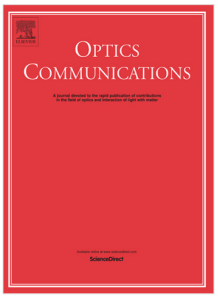

Differential holographic reconstruction for lensless in-line holographic microscope with ultra-broadband light source illumination

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The Highlights for Optics Communications

Hightlights:

1. A differential holographic reconstruction (DHR) method in in-line holographic microscope (LIHM) is proposed.
2. Resolution enhancement in LIHM with ultra-broadband light source illumination.
3. Only one single shot of hologram is needed for DHR with two different back-propagation distances.

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