Erratum to: Generation of Airy beams using a phase-only Fresnel holographic lens

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After publication of the article it was remarked that the last sentence of the third paragraph was incorrect. It should read:

The corresponding theory and simulation of Airy beams formation and propagation properties using a Fresnel lens have been well presented in Ref. [9]. In this paper, we attempt to use the phase transformation theory of thin lens to further illustrate the generation principle of the formed Airy beams.

The full third paragraph is as follows: However, the optical system of the Fourier transform method has a rather large length of $2f$, and usually f is 1 m in experiment. The quality of optical Fourier lens is strictly required, which means a large cost. Recently, a generation method by directly encoding the Fresnel diffraction lens together with the Fourier transform phase of Airy beam onto the LCoS is demonstrated as described in Fig.1(b). Such an approach has been experimentally illustrated in Refs.[8, 9]. This type of method works well and reduces the system length to f , removing an expensive Fourier lens. The corresponding theory and simulation of Airy beams formation and propagation properties using a Fresnel lens have been well presented in Ref. [9]. In this paper, we attempt to use the phase transformation theory of thin lens to further illustrate the generation principle of the formed Airy beams.

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