



SDI Review Form 1.6

Journal Name:	Physical Review & Research International
Manuscript Number:	2013_PRR1_6718
Title of the Manuscript:	Focusing of Optical Vector-vortex Beams
Type of the Article	Research Paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	<p>The work itself is completed, and has some significance to the community. Here are my comments to be addressed to make paper ready for publication:</p> <ol style="list-style-type: none"> 1. Most of the simulation results can be referred to the Figures in the manu, but the scale sizes are too small to be viewed. Especially the "80 lamda" cannot be recognized in Fig. 6. 2. The word "equation" shorten as "Eqn." and "Equ." in the manu, please uniformize them. 3. "Richadson-Wolf" in the manu may be "Richards-Wolf"? 4. In eq. 9(c), "z" seems to be missed. 5. In fig. 1, the author should depict the locations of "z=0" and "A". 6. The description of the experiment (after Eq. 9) is oversimplified and is obviously different from that in Ref. 25. "Two half-wave plates are used after the collimated fiber output to rotate the spatial polarization state of the vector beam ...", which is inaccuracy because a sandwich-structure should be introduced. (see ref. 1 and 25). The scale bars of Fig. 3 (b,c,e,f) should be provided. 	
<u>Minor</u> REVISION comments	<ol style="list-style-type: none"> 7. In Fig. 2, why the intensity distribution in z=0 plane are not zero. (The intensity in z=0 seems to be zero according to Eq. 7) and why the intensity distribution near the focal region is not symmetrical to z=0 plane. 	



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<u>Optional/General</u> comments	<p>Some expressions in the manu are misleading.</p> <p>8. In the abstract “the focusing process leads to interference between different field components of the beam...”, in my opinion, different field components are independence and cannot interference with each others.</p> <p>9. In introduction, “Optical beams with spatially varying state of polarization are known as cylindrical vector beams”. Strictly speaking, only the spatially varying state of polarization with cylindrical symmetric can be defined as CV beams.</p> <p>10. The results in the figures are cylindrical symmetric, why the equations use the Descartes coordinate (Ex, Ey, Ez).</p>	
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Note: Anonymous Reviewer