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## Corrigendum

# Corrigendum to “Resonance scattering of a dielectric sphere illuminated by electromagnetic Bessel non-diffracting (vortex) beams with arbitrary incidence and selective polarizations” [Ann. Phys. 361 (2015) 120–147]

F.G. Mitri<sup>a,\*</sup>, R.X. Li<sup>b,c</sup>, L.X. Guo<sup>b,c</sup>, C.Y. Ding<sup>b</sup><sup>a</sup> Chevron, Area 52 Technology–ETC, 5 Bisbee Ct., Santa Fe, NM 87508, USA<sup>b</sup> School of Physics and Optoelectronic Engineering, Xidian University, Xi'an 710071, China<sup>c</sup> Collaborative Innovation Center of Information Sensing and Understanding, Xidian University, Xi'an 710071, China

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## ABSTRACT

In the concerned article Mitri et al. (2015), misprints that have occurred are corrected in six equations. They are Eqs. (60)–(64) and (68). These corrections do neither alter the results and plots displayed in Mitri et al. (2015), nor the conclusions as the numerical computations used the correct equations.

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In the concerned article [1], misprints have occurred in Eqs. (60)–(64) and (68). The corrected versions of these equations are, respectively,

$$T_n^{21} = -\frac{m_1}{m_2} \frac{2i}{D_n}, \quad (60)$$

$$R_n^{212} = \frac{C_1 \xi_n^{(2)'}(\kappa_2) \xi_n^{(2)}(\kappa_1) - C_2 \xi_n^{(2)}(\kappa_2) \xi_n^{(2)'}(\kappa_1)}{D_n}, \quad (61)$$

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\* Corresponding author.

E-mail address: [F.G.Mitri@ieee.org](mailto:F.G.Mitri@ieee.org) (F.G. Mitri).<http://dx.doi.org/10.1016/j.aop.2015.07.028>

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$$T_n^{12} = -\frac{2i}{D_n}, \quad (62)$$

$$R_n^{121} = \frac{C_1 \xi_n^{(1)'}(\kappa_2) \xi_n^{(1)}(\kappa_1) - C_2 \xi_n^{(1)}(\kappa_2) \xi_n^{(1)'}(\kappa_1)}{D_n}, \quad (63)$$

$$D_n = -C_1 \xi_n^{(1)'}(\kappa_2) \xi_n^{(2)}(\kappa_1) + C_2 \xi_n^{(1)}(\kappa_2) \xi_n^{(2)'}(\kappa_1), \quad (64)$$

$$R_n^{c,212} = \begin{cases} -\frac{\xi_n^{(2)'}(\kappa_2)}{\xi_n^{(1)'}(\kappa_2)} & \text{for TE} \\ -\frac{\xi_n^{(2)}(\kappa_2)}{\xi_n^{(1)}(\kappa_2)} & \text{for TM.} \end{cases} \quad (68)$$

These corrections do neither alter the results and plots displayed in [1], nor the conclusions, as the numerical computations used the correct equations.

## References

- [1] F.G. Mitri, R.X. Li, L.X. Guo, C.Y. Ding, *Ann. Physics* 361 (2015) 120–147.