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Corrigendum: Photon-phonon Interaction in a Microfiber Induced by Optical and Electrostrictive Forces

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Experimental and theoretical results of spontaneous Brillouin scattering (SpBS) in solid silica microfibers have been demonstrated^{1,2}. Surface acoustic waves and Brillouin scattering self-cancellation were found and discussed in the two papers^{1,2}. In our paper, we investigated the stimulated Brillouin scattering (SBS) process in solid and hollow microfibers. Our conclusion was that SBS can be suppressed in a solid microfiber and even be completely cancelled in a hollow microfiber. Our theoretical model did not include SpBS which originates from the acoustic waves caused by Brownian motion (thermal motion), thus self-cancellation effect of SpBS in solid microfiber was not demonstrated in our work.

References

1. Florez, O. *et al.* Brillouin scattering self-cancellation. *Nat. Commun.* 7, 11759 (2016).
2. Beugnot, J.-C. B. *et al.* Brillouin light scattering from surface acoustic waves in a subwavelength-diameter optical fibre. *Nat. Commun.* 5, 5242 (2014).



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