Title	Ultraviolet poling of pure fused silica by high-intensity femtosecond radiation
Authors	Corbari, C.;Kazansky, P. G.;Slattery, Stephen A.;Nikogosyan, David N.
Publication date	2005
Original Citation	Corbari, C., Kazansky, P. G., Slattery, S. A. and Nikogosyan, D. N. (2005) 'Ultraviolet poling of pure fused silica by high-intensity femtosecond radiation', Applied Physics Letters, 86(7), pp. 071106. doi: 10.1063/1.1868075
Type of publication	Article (peer-reviewed)
Link to publisher's version	http://aip.scitation.org/doi/abs/10.1063/1.1868075 - 10.1063/1.1868075
Rights	© 2005 American Institute of Physics.This article may be downloaded for personal use only. Any other use requires prior permission of the author and AIP Publishing. The following article appeared in Corbari, C., Kazansky, P. G., Slattery, S. A. and Nikogosyan, D. N. (2005) 'Ultraviolet poling of pure fused silica by high-intensity femtosecond radiation', Applied Physics Letters, 86(7), pp. 071106 and may be found at http://aip.scitation.org/doi/abs/10.1063/1.1868075
Download date	2024-04-24 17:48:38
Item downloaded from	https://hdl.handle.net/10468/4395

Erratum: "Ultraviolet poling of pure fused silica by high-intensity femtosecond radiation" [Appl. Phys. Lett. 86, 071106 (2005)]

Costantino Corbari, Peter G. Kazansky, Stephen A. Slattery, and David N. Nikogosyan

Erratum: "Ultraviolet poling of pure fused silica by high-intensity femtosecond radiation" [Appl. Phys. Lett. **86**, 071106 **(2005)**]

Costantino Corbari and Peter G. Kazansky
Optoelectronics Research Centre, University of Southhampton, Southhampton, United Kingdom

Stephen A. Slattery and David N. Nikogosyan
Physics Department, National University of Ireland, University College Cork, Ireland

In our paper, Eqs. (1) and (2) were typed erroneously. In order to get the correct form, they should be decreased by a factor of 2 on their right hand sides. The equations should read as follows:

$$I = \frac{\varepsilon_p}{\left(\dfrac{\pi}{\ln 2}\right)^{3/2} \dfrac{\tau w^2}{2} \left(\dfrac{F-S}{F}\right)^2}, \tag{1}$$

$$E = \frac{\varepsilon_p N}{\dfrac{\pi w^2}{\ln 2}\left(\dfrac{F-S}{F}\right)^2}. \tag{2}$$

In addition, the w parameter used in these equations is not the beam diameter, as written in the text; it is the beam radius and should be twice less, $w = 0.15$ cm.

These errors occurred in the rearranging of the original formulas dealing with Gaussian parameters of the beam (at the e^{-1} level), used in the processing of the experiment, to formulas using FWHM parameters. Hence, these errors do not affect any result presented in this letter.