

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	2024-05-19 05:51:34
Item downloaded from	https://hdl.handle.net/10468/4395



UCC

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

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

Citation: *Appl. Phys. Lett.* **86**, 149902 (2005); doi: 10.1063/1.1899754

View online: <http://dx.doi.org/10.1063/1.1899754>

View Table of Contents: <http://aip.scitation.org/toc/apl/86/14>

Published by the [American Institute of Physics](#)

AIP | Applied Physics
Letters

Save your money for your research.
It's now **FREE** to publish with us -
no page, color or publication charges apply.

If your article has the
potential to shape the future of
applied physics, it BELONGS in
Applied Physics Letters

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 Southampton, Southampton, United Kingdom

Stephen A. Slattery and David N. Nikogosyan

Physics Department, National University of Ireland, University College Cork, Ireland

(Received 4 March 2005; accepted 11 March 2005; published online 31 March 2005)

[DOI: 10.1063/1.1899754]

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:

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

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

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.