Tailoring harmonic radiation to different applications using a genetic algorithm (vol 34, pg 5041, 2001)

Roos, L; Gaarde, M. B; L'Huillier, Anne

Published in:
Journal of Physics B: Atomic, Molecular and Optical Physics

DOI:
10.1088/0953-4075/35/3/702

2002

Citation for published version (APA):

Total number of authors:
3

General rights
Unless other specific re-use rights are stated the following general rights apply:
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

• Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
• You may not further distribute the material or use it for any profit-making activity or commercial gain
• You may freely distribute the URL identifying the publication in the public portal

Read more about Creative commons licenses: https://creativecommons.org/licenses/

Take down policy
If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.
Tailoring harmonic radiation to different applications using a genetic algorithm

This article has been downloaded from IOPscience. Please scroll down to see the full text article.

(http://iopscience.iop.org/0953-4075/35/3/702)

View the table of contents for this issue, or go to the journal homepage for more

Download details:
IP Address: 130.235.188.104
The article was downloaded on 05/07/2011 at 09:42

Please note that terms and conditions apply.
Corrigendum

Tailoring harmonic radiation to different applications using a genetic algorithm

The J. Phys. B publishing team would like to apologise to the authors of the above paper. Due to an oversight, the article was published in issue 24 of volume 34 without the colour figures requested by the authors. We are therefore reprinting figures 1, 2 and 5 from that article.

Figure 1. Optimization of the number of photons in the ninth harmonic in xenon with respect to pressure and medium length. The number of photons is given in accordance with the colour bar on the right.
Figure 2. Optimization of the number of photons with respect to focus position and medium length in argon. The laser peak intensity is $I_0 = 2.4 \times 10^{14}$ W cm$^{-2}$. (a) H15, $b \approx 10.5$ cm. (b) H29, $b \approx 10.5$ cm. (c) H15, $b = 1$ cm. (d) H29, $b = 1$ cm. At $Z_0 = 0$ the laser focus is in the centre of the medium, $Z_0 < 0$ means that the focus is before the centre of the medium, while the focus is after the centre of the gas medium for $Z_0 > 0$.

Figure 5. Optimization of the temporal coherence (spectral ratio) of the 15th harmonic in argon with respect to $L$ and $Z_0$, at a fixed peak intensity of $1.6 \times 10^{14}$ W cm$^{-2}$.