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HIGH POWER LASER SCIENCE AND ENGINEERING

CORRIGENDUM

Optimization and control of synchrotron emission in ultraintense laser–solid interactions using machine learning – CORRIGENDUM

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Due to an isolated error in the 3D simulation parameters, the laser energy and intensity (calculated using the energy) values were incorrectly stated as 10.9 J and 3×10^{22} W cm^{-2}, respectively, in Sections 3.3, 7 and 8. The correct values are 39.8 J and 1.1×10^{23} W cm^{-2}. Similarly, the values stated for the higher energy case, 109 J and 3×10^{23} W cm^{-2} in Section 7, should be 398 J and 1.1×10^{24} W cm^{-2}, respectively.

The conversion efficiencies (which are calculated using the laser energy) shown in Figures 9(d)–9(f) are corrected by multiplying by a constant factor of 0.273. With corrected energies, the synchrotron conversion efficiencies in Section 3.3 now become 4.32%, 4.50% and 1.67% for $x_f = 0$, z_R and $-z_R$, respectively, corresponding to changes of +4% and −61% for the positive and negative defocus, respectively.

This error does not affect the conclusions of the article.

Reference

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