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Yang1,9, L Robson1, J Zweit2,10, J M Gillies2, J Bailey2, G N Chimon2,10, R J Clarke3, D Neely3, P A ...High power laser production of short-lived isotopes for ...title = "High power laser production of short-lived isotopes for positron emission tomography", abstract = "Positron emission tomography (PET) is a powerful diagnostic/imaging technique requiring the production of the short-lived positron emitting isotopes 11C, 13N, 15O and 18F by proton irradiation of natural/enriched targets using cyclotrons.High power laser production of short-lived isotopes for ...High-intensity lasers operate in a different regime, e.g., peak powers of ~10 12 –10 15 W, pulse lengths of ~10 −12 –10 −14 s, intensities of ~10 14 –10 23 W/cm 2, and repetition rates ranging from 10 3 –10 6 Hz with average powers of >10 W. These lasers are used in high-field physics research and have numerous potential applications.High-power, high-intensity laser propagation and interactionsHigh Power Laser-Matter Interaction. Authors: Mulser, Peter, Bauer, Dieter Free Preview. Comprehensive review; Buy this book eBook 128,39 ... The extension of laser interaction to the relativistic electron acceleration as well as the physics of collisionless absorption are the subject of Chapter 7.High Power Laser-Matter

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Laser-Produced Radioactive Isotopes | Science

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