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High Power Laser Interactions Isotopes

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High Power Laser Interactions: Isotopes Separation ...

Recent experiments have demonstrated that laser-solid interactions at intensities greater than 10¹⁹ W/cm² can produce fast electron beams of several hundred MeV [1], tens of MeV γ -rays [2, 3], up to 58MeV proton beams [4, 5], and heavier ions [6] of up to 7MeV/nucleon.

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Abstract. Recent experiments have demonstrated that laser–solid interactions at intensities greater than 10^{19} W/cm² can produce fast electron beams of several hundred MeV [1], tens of MeV γ -rays [2, 3], up to 58 MeV proton beams [4, 5], and heavier ions [6] of up to 7 MeV/nucleon. One of the potential applications of the high-energy proton beams is the production of radioactive isotopes for positron emission tomography (PET).

High-Power Laser Production of PET Isotopes | SpringerLink

Recent results show that when an intense laser beam interacts with solid targets, megaelectronvolt (MeV) protons capable of producing PET isotopes are generated. This report describes how to generate intense PET sources of ¹¹C and ¹⁸F using a petawatt laser beam.

High power laser production of short-lived isotopes for ...

1 Department of Physics, University of Strathclyde, Glasgow G4 0NG, UK. 2 CR-UK/UMIST Radiochemical Targeting and Imaging, Paterson Institute for Cancer Research, Christie Hospita

High power laser production of short-lived isotopes for ...

The atomic vapor laser isotope separation (AVLIS) method, shown conceptually in Fig. 6, produces uranium vapor, injects laser energy at the precise frequency to ionize only the ²³⁵U atoms, and separates the ²³⁵U ions from the ²³⁸U atoms with an electromagnetic field.

Research and development efforts on this method are top priority in the United States and of great interest in France, Japan, and elsewhere.

Laser Isotope Separation - an overview | ScienceDirect Topics

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High Power Laser Interactions: Isotopes Separation ...

One of the potential applications of the high-energy proton beams is the production of radioactive isotopes for positron emission tomography (PET). PET is a form of medical imaging requiring the...

High-Power Laser Production of PET Isotopes | Request PDF

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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 ^{11}C , ^{13}N , ^{15}O and ^{18}F by proton irradiation of natural/enriched targets using cyclotrons.

High power laser production of short-lived isotopes for ...

Using the powerful VULCAN laser, Ledingham et al. present a proof-of-principle demonstration in which radioactive isotopes of carbon and fluorine are produced in sufficient abundance during the...

Laser-Produced Radioactive Isotopes | Science

Quasicollimated e^- beams are produced from the interaction of the intense laser beam with the gas jet, and energetic bremsstrahlung photons are then generated efficiently from the Ta target irradiated by the laser-plasma-accelerated e^- beams. ^{62}Cu isotope production is realized in the following stage by irradiating a centimeter-scale Cu target with high-energy bremsstrahlung photons, inducing possible photonuclear reactions.

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Photonuclear production of medical isotopes $^{62,64}\text{Cu}$ using ...

Paper Abstract. The huge progress made in the laser driven ion acceleration had open the possibility of using ions generated in high power laser interactions with solid targets for the production of medical isotopes. Indeed, lasers could provide several key features with respect to the traditional method where the target activation is produced by particle beams delivered by cyclotrons.

On the potential of laser driven isotope generation at ELI ...

High Power Materials Processing Lasers Carbon Dioxide - up to 100kW more usually 2 to 7kW - 10.6 m Carbon Monoxide - not generally available, up to 5kW - 5 to 6 m Nd-YAG - up to 4.5kW - 1.06 m UV - Argon Ion 2W, HeCd, Tripled YAG 5W Diode Lasers 2 kW

High Power Lasers & Interactions

The isotopes of lithium are important for nuclear industry. A narrowband tunable dye laser in combination with mass-spectrometer on tuning with ^6Li ($2\text{S } 1/2 \ ? \ 2\text{P } 1/2$) and ^7Li ($2\text{S } 1/2 \ ? \ 2\text{P } 3/2$) resonance levels confirms high degree of isotope selectivity (?32).

Laser assisted isotope separation of lithium by two-step ...

Gas flow conditions allow multiple laser radiation interactions with atoms to be performed with high efficiency in spite of small cross-section transition and low laser power.

Laser Separation of Isotopes - ResearchGate

OSTI.GOV Technical Report: Isotope separation of laser excited molecules by use of surface interaction. Isotope separation of laser excited molecules by use of surface interaction. Full Record; Other Related Research; Authors: Huss, E.B.; Fulk, M.M. Publication Date: Mon Oct 30 00:00:00 EST 1972

Isotope separation of laser excited molecules by use of ...

The only general method for separating isotopes is the calutron, which was invented during the Second World War to enrich uranium for the atomic bomb. A calutron is essentially a cyclotron that accelerates ions to extremely high energies while deflecting them using a magnetic field.

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