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Applied to Science**

...

Recent achievements
in ultraintense laser

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technology ushered in a new generation of particle accelerators. The fully relativistic plasmas generated during the interaction of multi-TW laser pulses are now seriously considered as a brilliant source of GeV electrons, MeV ions, as well as versatile photon beams.

**Relativistic Plasmas
- an overview |**

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ScienceDirect Topics

Laser-plasma interactions in the novel regime of relativistically induced transparency (RIT) have been harnessed to generate intense ion beams efficiently with average energies exceeding 10 MeV/nucleon (>100 MeV for protons) at “table-top” scales in experiments at the LANL Trident Laser.

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**Laser-plasmas in the
relativistic-
transparency regime**

...

Laser-driven relativistic
plasmas applied to
science, energy,
industry and medicine :
the 3rd International
Symposium, Kyoto,
Japan, 30 May-2 June
2011. [S V Bulanov;]

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**relativistic plasmas
applied to science ...**

"Selected papers from the international symposium "Laser-driven relativistic plasmas applied for science, industry and medicine"--Satellite meeting of IFSA 2007, which was held at the Kansai Photon Science Institute of the Japan Atomic Energy Agency in Kizugawa-city, Kyoto, Japan, from September 17 to 20,

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2007"--Page ix.

To Science
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...
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the Second
International
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Medicine, which was
held at the Kansai
Photon Science
Institute of the Japan

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Atomic Energy
Agency"--Page xii. CD-
ROM includes full-color
versions of the papers.
Medicine 2nd

**Laser-driven
relativistic plasmas
applied to science ...**

Yang, X. H. et al.
Effects of filamentation
instability on the
divergence of
relativistic electrons
driven by ultraintense
laser pulses. Phys.
Plasmas 23 , 103110
(2016).

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Growth of concomitant laser- driven collisionless and ...

Abstract. The generation of harmonics by interaction of an ultrashort laser pulse with a step boundary of a plane overdense plasma layer is studied at intensities $I \lambda^2 = 10^{17} - 10^{19} \text{ W cm}^{-2} \mu\text{m}^2$ for normal and oblique incidence and

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different polarizations.

Fully relativistic
one-dimensional
particle-in-cell (PIC)
simulations are
performed with high
spectral resolution.

**Short-pulse laser
harmonics from
oscillating plasma ...**

Presented here is the
analysis of the proton
radiography of a high-
intensity ($\sim 10^{18}$ W cm⁻²) laser driven
magnetic reconnection

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geometry. The path
integrated magnetic
fields are recovered
using a “field-
reconstruction
algorithm” to quantify
the field strengths,
geometry, and
evolution.

Field reconstruction from proton radiography of intense ...

Under these conditions,
the electron dynamics
is relativistic; thus, the

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laser-plasma

Interaction is highly nonlinear. In particular, the Langmuir wave frequency nonlinearly depends on its amplitude. The first above-mentioned cusp singularity appears when a wake wave, driven by a relativistically intense laser pulse, breaks.

**Optical probing of
relativistic plasma
singularities ...**

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A. P. L. Robinson and A. Arefiev, "Net energy gain in direct laser acceleration due to enhanced dephasing induced by an applied magnetic field", Phys. Plasmas 27, 023110 (2020). 10 K.

Weichman, A. P. L. Robinson, F. N. Beg, and A. V. Arefiev, "Laser reflection as a catalyst for direct laser acceleration in multipicosecond laser-plasma ...

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Publications | Relativistic Laser- Plasma Simulation Group

The Group is expertly equipped to address both fundamental and applied aspects of plasma physics research, including laser acceleration, laser fusion research and quantum effects (e.g. particle production) expected to be observed with

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the next generation of
ultra-high intensity
lasers (e.g. the Vulcan
10 PW upgrade).

**Lasers and Plasma
Physics - Science
and Technology ...**

Optimal ion
acceleration from
ultrathin foils irradiated
by a profiled laser
pulse of relativistic
intensity. Phys.
Plasmas 16, 013103.
Antici, ... New method
for laser driven ion

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acceleration with ...

Demonstration of a low
electromagnetic pulse
laser-driven argon gas
jet x-ray source.

Applied Physics
Letters, Vol. 101, Issue.
2, p. 024102. ...

**Efficient ion
acceleration by
collective laser-
driven ...**

Laser-driven
generation of high-
current ion beams
using skin-layer

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acceleration - Volume
23 Issue 4 - J. BADZIAK,
S. GŁOWACZ, S.
JABŁONSKI, P. PARYS, J.
WOŁOWSKI, H. HORA

**Laser-driven
generation of high-
current ion beams
using ...**

The relativistic drive
laser first creates a
nonlinear wake as it
propagates in the
plasma; then, the
signal laser enters the

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To Science
Industry And
Medicine 2nd

wake and resides in
the density up-ramp of
the second bubble with
 ∂ [...

**Efficient generation
of relativistic near-
single-cycle mid ...**

The laser frequency, on
the contrary, keeps
increasing due to the
acceleration of REM
and the relativistic
Doppler shift from the
lab frame to the
electron moving frame.
Within an ultra-short

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time interval, the two

frequencies will be
equal in the electron
moving frame, which
leads to the resonance
between laser and
REM.

**Selective
amplification of the
chirped attosecond
pulses ...**

Dynamics of laser-
driven heavy-ion
acceleration clarified
by ion charge states ...
we simulated the laser

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relativistic rising edge
and main... tion and
energy transport for
plasmas with ...
Medicine 2nd

**(PDF) Dynamics of
laser-driven heavy-
ion acceleration ...**

The proposed
snowplow regime of
accel- eration uses a
snowplow of charge
created by a relativistic
laser pulse at the
critical density on a
uphill Plasma den-
sity gradient.

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**Proton Acceleration
by Trapping in a
Relativistic Laser ...**

Controlling the
spectrum of high-
power terahertz
radiation from a laser-
driven plasma wave

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2012/09: Versatile
shaping of a relativistic
laser pulse from a
nonuniform overdense

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**Papers - Laser-
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relativistic electron
(RE) beams during
ultraintense laser pulse
interaction with plasma
targets is studied by
collisional particle-in-
cell simulations.

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