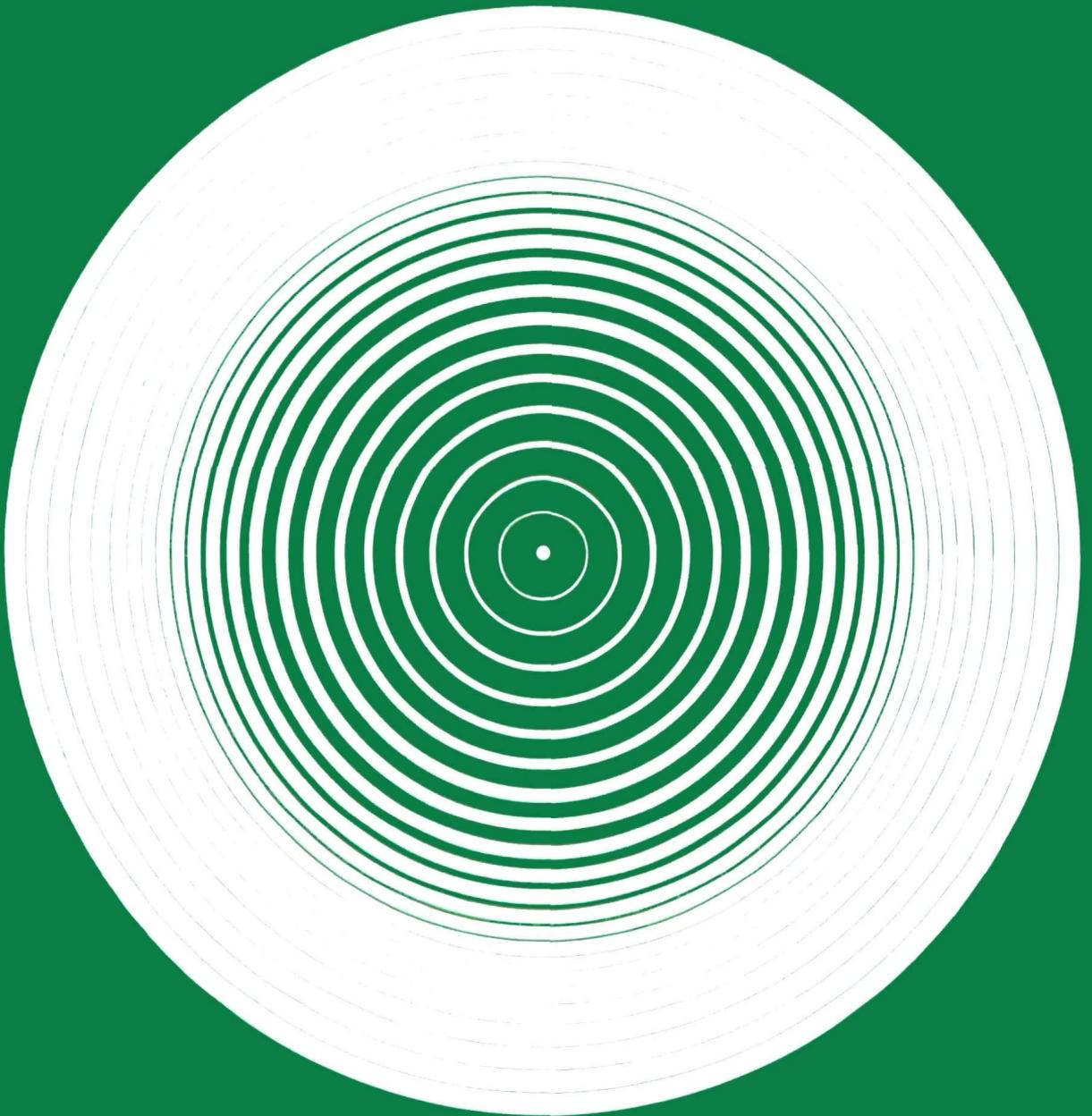


LASER AND PARTICLE BEAMS

VOLUME 14 NUMBER 1
1996

PULSE POWER AND HIGH ENERGY DENSITIES



CAMBRIDGE
UNIVERSITY PRESS

Laser and Particle Beams

Pulse Power and High Energy Densities

Editor in Chief:

G. H. MILEY
Director, Fusion Studies Laboratory,
University of Illinois,
103 S. Goodwin Ave, Urbana, IL 61801, USA

Emeritus Editor in Chief: HEINRICH HORA

Professor Emeritus
University of New South Wales
Kensington 2033, Australia

Associate Editors:

R. DAUTRAY (for Europe)
Haut Commissaire
Commissariat à l'Energie Atomique
31-33 Rue de la Fédération
75752 Paris Cedex 15, France

J.P. QUINTENZ (for Pulse Power)
Sandia National Laboratories
P.O. Box 5800, MS 1195
Albuquerque, NM 87185-1195

C. YAMANAKA (for Japan)
Director, Institute of Laser Engineering,
Osaka University, Suita,
565 Osaka, Japan

Editorial Board

N. G. Basov (Moscow)
D. Cartwright (Los Alamos)
P. van Devender (Albuquerque)
S. Eliezer (Soreq, Israel)
G. Kessler (Karlsruhe)
M. H. Key (Rutherford Appleton Lab.)
M. Kristiansen (Pulse Power Lab.,
Texas Tech)
R. L. McCrory (Rochester)
G. A. Mesyats (Sverdlovsk, Russia)
P. Mulser (Darmstadt)
S. Nakai (Osaka)
K. Niu (Nagatsuta)
A. A. Offenberger (Alberta)
A. M. Prokhorov (Moscow)
B. Ripin (Washington)
D. D. Ryutov (Novosibirsk)
E. Storm (Livermore)
J. P. Watteau (CEA Limeil)

Laser and Particle Beams is an international journal that covers the generation, and the interaction with matter, of high intensity laser and particle beams. It also covers the physics of systems with high energy densities. Specific fields of interest include nuclear fusion, especially inertial confinement, magnetic confinement, diagnostics, material treatment, laboratory astrophysics, plasmas and spectroscopy at extreme conditions, physical properties of hot dense matter and intense particle beams and optical (laser) beams from the microwave to the X-ray region. The exploration of these fields and their new physics, including nonlinear and nonclassical phenomena, should find a forum in this journal.

As well as publishing original articles the journal also publishes occasional review articles, surveys of research at particular laboratories and reviews of recent books.

© Cambridge University Press 1996

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per copy fee of \$11.00 + .10. This consent does not extend to multiple copying for promotional or commercial purposes. Code 5/0263-0346/96 \$11.00 + .10.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission must be sought from Cambridge University Press.

Subscriptions: *Laser and Particle Beams* (ISSN 0263-0346) is published quarterly. The subscription price for institutions (which includes postage) of Volume 14, 1996 is US \$359 for the US, Mexico, and Canada (UK £194+VAT elsewhere). Individual rates: US \$99 in the US, Mexico, and Canada; UK £65+VAT elsewhere. Single parts cost US \$90 for the US, Mexico, and Canada (UK £55+VAT elsewhere) plus postage. Four parts form a volume. Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent, or direct to the publishers: Cambridge University Press, Journals Department, 40 West 20th Street, New York, NY 10011-4211, USA; orders outside the US, Canada, or Mexico may be sent to Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, England. Claims for missing issues should be made immediately after receipt of the next issue. POSTMASTER: Send address changes in the US, Mexico, and Canada to *Laser and Particle Beams*, Cambridge University Press, 110 Midland Avenue, Port Chester, NY 10573-9864.

Second Class Postage paid at New York, NY and at additional mailing offices.