ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

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ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

Volume 11

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World Scientific

Singapore • New Jersey • London • Hong Kong

Published by

World Scientific Publishing Co. Pte. Ltd.

P O Box 128, Farrer Road, Singapore 912805

USA office: Suite 1B, 1060 Main Street, River Edge, NJ 07661

UK office: 57 Shelton Street, Covent Garden, London WC2H 9HE

British Library Cataloguing-in-Publication Data

A catalogue record for this book is available from the British Library.

ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY — Vol. 11

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ISBN 981-02-3284-5

ISSN 0218-0227

Printed in Singapore.

Preface

In view of the rapid growth in both experimental and theoretical studies of multiphoton processes and multiphoton spectroscopy of atoms, ions and molecules in chemistry, physics, biology, materials science, etc., it is desirable to publish an Advanced Series that contains review papers readable not only by active researchers in these areas, but also by those who are not experts in the field but who intend to enter the field. The present series attempts to serve this purpose. Each review article is written in a self-contained manner by the experts in the area so that the readers can grasp the knowledge in the area without too much preparation.

The topics covered in this volume are "Resonance Raman Intensities: The Roundabout Way to Franck-Condon Analysis", "Van der Waals Complexes and Small Molecular Clusters: A Tool to Understand and Control Chemical Reactions", "Photofragmentation of Weakly Bound Complexes" and "Off-Resonant Fifth and Seventh Order Time-Domain Nonlinear Spectroscopy on Vibrational Dephasing in Liquids". The editors wish to thank the authors for their important contributions. It is hoped that the collection of topics in this volume will be useful not only to active researchers but also to other scientists in biology, chemistry, materials science and physics.

S. H. Lin
A. A. Villaeys
Y. Fujimura

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