

Panayotis G. Kevrekidis
Dimitri J. Frantzeskakis
Ricardo Carretero-González
(Editors)

Emergent Nonlinear Phenomena in Bose–Einstein Condensates

Theory and Experiment

With 110 Figures

 Springer

Professor Panayotis G. Kevrekidis
University of Massachusetts, Amherst MA 01003-4515, USA
E-mail: kevrekid@math.umass.edu

Professor Dimitri J. Frantzeskakis
University of Athens, Athens 15784, Greece
E-mail: dfrantz@phys.uoa.gr

Professor Ricardo Carretero-Gonzalez
San Diego State University, San Diego CA, 92182-7720, USA
E-mail: carreter@sciences.sdsu.edu

ISSN 1615-5653

ISBN 978-3-540-73590-8 Springer Berlin Heidelberg New York

Library of Congress Control Number: 2007932192

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilm or in any other way, and storage in data banks. Duplication of this publication or parts thereof is permitted only under the provisions of the German Copyright Law of September 9, 1965, in its current version, and permission for use must always be obtained from Springer-Verlag. Violations are liable to prosecution under the German Copyright Law.

Springer is a part of Springer Science+Business Media.

springer.com

© Springer-Verlag Berlin Heidelberg 2008

The use of general descriptive names, registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Typesetting and production: SPI Publisher Services
Cover design: eStudio Calmar Steinen

Printed on acid-free paper SPIN: 11801221 57/3180/SPI - 5 4 3 2 1 0