Review of Modern Physics

A quarterly journal seeking to enhance communication among physicists by publishing comprehensive scholarly reviews of physics topics, as well as colloquia and tutorial articles in rapidly developing fields of physics.

Chief Editor
RANDALL D. KAMIEN
University of Pennsylvania

***Colloquia* Editor**
DIETRICH BELITZ
University of Oregon

Journal Manager
DEBBIE BRODBAR
American Physical Society

Associate Editors:

APPLIED AND MATERIALS PHYSICS
MARK D. STILES, *National Institute of Standards and Technology*

ASTROPHYSICS
VÉRONIQUE VAN ELEWYCK, *Universite Paris Diderot*

ATOMIC, MOLECULAR, AND OPTICAL PHYSICS
KLAUS MØLMER, *University of Aarhus*

BIOLOGICAL PHYSICS
OLGA DUDKO, *University of California, San Diego*

CLIMATE SCIENCE
NADIR JEEVANJEE, *National Oceanic and Atmospheric Administration*

CONDENSED MATTER PHYSICS (Experimental)
VIVIEN ZAPF, *Los Alamos National Laboratory*

CONDENSED MATTER PHYSICS (Theoretical)
PHILIP PHILLIPS, *University of Illinois*

FLUID, GEOMETRIC, AND SOLID MECHANICS
THOMAS POWERS, *Brown University*

MATHEMATICAL PHYSICS
DAM THANH SON, *University of Chicago*

NUCLEAR PHYSICS
THOMAS SCHÄFER, *North Carolina State University*

PARTICLE PHYSICS (Experimental)
HIROAKI AIHARA, *University of Tokyo*

PARTICLE PHYSICS (Theoretical)
ALEXANDER KUSENKO, *University of California, Los Angeles; Kavli IPMU, University of Tokyo, Japan*

PHYSICS OF PLASMAS AND BEAMS
WIM LEEMANS, *DESY*

QUANTUM INFORMATION
DAVID DIVINCENZO, *Forschungszentrum Jülich*

SOFT CONDENSED MATTER
MARJOLEIN DIJKSTRA, *Leonard S. Ornstein Laboratorium, Universiteit Utrecht*

Phone: *(631) 591-4000*

Email: *rmp@aps.org*

Web: *https://journals.aps.org/*

Submissions *https://authors.aps.org/Submissions/*

American Physical Society

Chief Executive Officer	JONATHAN A. BAGGER
Editor in Chief	RANDALL D. KAMIEN
Chief Publications Officer	RACHEL BURLEY
Director of Publishing	JEFF LEWANDOWSKI
Chief Information Officer	MARK D. DOYLE
Executive Editor	JESSICA THOMAS
Director, Editorial and Publication Operations	CHRISTINE M. GIACCONE

One Physics Ellipse
College Park, MD 20740-3844

Member Subscriptions:
APS Membership Department
One Physics Ellipse
College Park, MD 20740-3844
Phone: (301) 209-3280
Fax: (301) 209-0867
Email: membership@aps.org

Institutional Subscriptions:
APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701
Toll free: (888) 339-9655
Phone: (301)617-7809
Email: subs@aps.org

Copyright © 2023 American Physical Society. All rights reserved.

Review of Modern Physics™is a trademark of the American Physical Society, registered in the United States, Canada, European Union and Japan.

Rights and Permissions: https://journals.aps.org/copyrightFAQ.html

Copying: No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the written permission of the publisher, except as stated below. Single copies of individual articles may be made for private use or research. Authorization is given to copy articles beyond the use permitted by Sections 107 and 108 of the U.S. Copyright Law, provided the copying fee of $25.00 per copy per article is paid to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA.

Reproduction of an entire article in a reprint collection, or for advertising or promotional purposes, or republication in any form requires permission from APS. Permission must be sought via Aptara's SciPris™platform. To request permission to republish, refer to the Reuse and Permissions link that can be found (online) on each APS article page and provide the requested information.

Other Use: Permission is granted to quote from the journal with the customary acknowledgment of the source. Permission must be sought using Aptara's SciPris™platform. To request permission to reproduce a figure, table, or excerpt of an article refer to the Reuse and Permissions link that can be found on each APS article page and provide the requested information. Authorization for private use or research does not extend to systematic or multiple reproduction, to copying for promotional purposes, to distribution in any format, or to republication in any form. In all such cases, specific permission from APS must be obtained.

Reviews of Modern Physics **[ISSN: 0034-6861 (print), 1539-0756 (online); CODEN RMPHAT; printed in USA] is published quarterly by the American Physical Society, 100 Motor Parkway, Suite 110, Hauppauge, NY 11788.**