

PHYSICAL REVIEW B

covering condensed matter and materials physics

Editors

LAURENS W. MOLENKAMP
ANTHONY M. BEGLEY
YONKO MILLEV

Associate Editors

MANOLIS ANTONOYIANNAKIS	ATHANASIOS CHANTIS	JERRY ICBAN DADAP JR.
HARI DAHAL	SUSAN H. FARRANT	JASON T. HARALDSEN
SARMA KANCHARLA	ROBERT M. KONIK	YAN LI
ASHOT MELIKYAN	BRADLEY RUBIN	PAUL C. SNIJDERS
VICTOR VARKARYUK		

Senior Editorial Assistant

MARIE RUPOLO

EDITORIAL BOARD

ANDREA ALU	F. ARYASETIAWAN	CHRISTIAN H. BACK	GERRIT BAUER
MANFRED BAYER	LARA BENFATTO	MARIA CALDERON	GUANG-HAN CAO
XIE CHEN	ANDREA DAMASCELLI	M.M. GLAZOV	MICHELLE JOHANNES
TYREL MCQUEEN	JULIA S. MEYER	YURI MISHIN	JANICE MUSFELDT
ZLATKO PAPIC	TOMOHIKO SAITOH	ADY STERN	ROSER VALENTI
NATHALIE VAST	MATTHIAS VOJTA	RASHID ZIA	

American Physical Society

President PHILIP H. BUCKSBAUM
Speaker of the Council ANDREA J. LIU
Chief Executive Officer KATE P. KIRBY
Editor in Chief MICHAEL THOENNESSEN
Publisher MATTHEW SALTER
Chief Information Officer MARK D. DOYLE
Chief Financial Officer JANE HOPKINS GOULD
Deputy Executive Officer and
Chief Operating Officer JAMES TAYLOR
Chief Government Affairs
Officer FRANCIS SLAKEY

One Physics Ellipse
College Park, MD 20740-3844

APS Editorial Office

Directors

Journal Operations CHRISTINE M. GIACCONE
1 Research Road
Ridge, NY 11961-2701
Phone: (631) 591-4020
Email: prb@aps.org
Web: <https://journals.aps.org/>
Submissions: <https://authors.aps.org/Submissions/>

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

Manuscripts should be submitted electronically in acceptable format (see <http://authors.aps.org/Submissions/>). Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. An executed APS **copyright-transfer** form must be provided (effective only on acceptance for publication). Information for Contributors and a description of editorial Policies and Practices can be found at <http://journals.aps.org/prb/authors>.

To help defray editorial and production expenses, authors of manuscripts which are not submitted in acceptable electronic format are expected to pay a **publication charge** of \$1620/article, \$1010/Rapid Communication, \$370/Comment or Reply. Acceptable formats are REVTeX (preferred), L^AT_EX, plain T_EX; MS Word; PostScript figures (preferred). **Reprints** are offered for sale to authors.

For additional information regarding the online version of this journal, please visit: <http://journals.aps.org/prb>. Institutional subscribers requesting address changes, filing claims, or requesting additional information, please contact the APS Services at subs@aps.org. Member subscribers requiring changes, claims or additional information should contact the APS Membership Department at membership@aps.org.

Copyright © 2020 American Physical Society. All rights reserved.

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

Rights and Permissions: <http://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 SciPrisTM platform. To request permission to republish, refer to the Reuse and Permissions link that can be found 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 SciPrisTM 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.

Physical Review B [ISSN: 2469-9950 (print), 2469-9969 (online); CODEN PRBMDO; printed in USA] is published four times a month by the American Physical Society, 1 Research Road, Ridge, NY 11961-2701.