

springer.com



2010. XI, 138 p. (Lecture Notes in Mathematics, Vol. 1988) Softcover

- ▶ 34,95€
- ▶ \$49.95
- ▶ SFr. 54.50
- ▶ £31.99

ISBN 978-3-642-11174-7

M. Broué, Université Paris-Diderot, Paris, France

Introduction to Complex Reflection Groups and Their Braid Groups

Weyl groups are particular cases of complex reflection groups, i.e. finite subgroups of GLr(C) generated by (pseudo)reflections. These are groups whose polynomial ring of invariants is a polynomial algebra. It has recently been discovered that complex reflection groups play a key role in the theory of finite reductive groups, giving rise as they do to braid groups and generalized Hecke algebras which govern the representation theory of finite reductive groups. It is now also broadly agreed upon that many of the known properties of Weyl groups can be generalized to complex reflection groups. The purpose of this work is to present a fairly extensive treatment of many basic properties of complex reflection groups (characterization, Steinberg theorem, Gutkin-Opdam matrices, Solomon theorem and applications, etc.) including the basic findings of Springer theory on eigenspaces. In doing so, we also introduce basic definitions and properties of the associated braid groups, as well as a quick introduction to Bessis' lifting of Springer theory to braid groups.... more on <u>http://springer.com/978-3-642-11174-7</u>

"Intr Yes, please send me copies ISB		"Introductic ISBN 978-3	ntroduction to Complex Reflection Groups and Their Braid Groups" SBN 978-3-642-11174-7	
Methods of Payment O Check/Money Order enclosed O AmEx		O MasterCard O VISA		
Card No.				
Please send orders to: Outside the Americas:		Name		
Springer	nger Springer er Department Customer Service Center GmbH ox 2485 Haberstrasse 7 ucus, NJ 07096-2485 69126 Heidelberg Germany		Address	
Order Department		GmbH	Street Address	
Secaucus, NJ 07096-2485		(Sorry, we cannot deliver to P.O. boxes)		
USA			City / State / ZIP-Code	
Call toll-free 1-800-SPRINGER 8:30 am - 5:30 pm FT	 Call: + 49 (0) 6221-345-4301 Fax: +49 (0) 6221-345-4229 Web: springer.com 		Country	
► Fax your order to (201) 348-4505			Telephone / Email	
Web springer.com Email orders-hd-individuals@spring Email orders-hd-individuals@spring		pringer.com	Date 🗙	Signature 🗙

CA, MA, NJ, NY, and PA residents, please add sales tax. Canadian residents, please add 5% GST. Please add \$5.00 for shipping one book and \$1.00 for each additional book. Outside the US and Canada add \$10.00 for first book, \$5.00 for each additional book. All orders are processed upon receipt. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent. Remember, your 30-day return privilege is always guaranteed. Pre-publication pricing: Unless otherwise stated, pre-pub prices are valid through the end of the third month following publication, and therefore are subject to change. All ϵ and \pm prices are net prices subject to local VAT, e.g. in Germany 7% VAT for books and 19% VAT for electronic products. Pre-publication pricing: Unless otherwise stated, pre-pub prices are valid through the end of the third month following publication, and therefore are subject to change. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. Please consult springer.com for information on postage.