

**newsMATHEMATICA**  
**Sep. – Oct. (No. 543)**

SCHÜTT, M. & 塩田 徹治 (SHIODA, T.):

**Mordell–Weil Lattices**

=Ergebnisse der Mathematik und ihrer  
Grenzgebiete. 3. Folge, Vol. 70

348 pp.

18,490

11 月出版予定

**SPRINGER**

詳細は本文 7 ページをご覧ください。

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ここに“newsMATHEMATICA” No. 543 をお届けいたします。  
さて、来る **9月17日（火）** から **20日（金）** まで**金沢大学  
角間キャンパス**において行われる日本数学会秋季総合分科  
会会場にて、恒例により書籍の展示を致します。  
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(株)マテマティカ

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## General & Reference

1	<b>Aldon, G. &amp; Trgalova, J. (Ed.):</b> Technology in Mathematics Teaching. Selected Papers of the 13th ICTMT conference. 2019. 325 pp. = <b>Mathematics Education in the Digital Era. Vol. 13.</b> Hard. (Springer)	18,490
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2*	<b>Araujo, C. et al (Ed.):</b> World Women in Mathematics 2018. Proceedings of the First World meeting for Women in Mathematics (WM)2. 158 pp. = <b>Association for Women in Mathematics Series. Vol. 20.</b> Hard. (Springer)	13,870
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7*	<b>Cheng, S.-Y. et al (Ed.):</b> Notices of the International Congress of Chinese Mathematicians, Vol. 7, No. 1 (July 2019). 106 pp. Paper. (International Press)	12,300
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	9780691149158	
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12*	<b>Ji, L. et al (Ed.):</b> Tsinghua Lectures in Mathematics. 526 pp. = <b>Advanced Lectures in Mathematics. Vol. 45.</b> Paper. (International Press)	11,800
	8-2019      9781571463722	

13	<b>Ji, L. et al (Ed.):</b> Proceedings of the Seventh International Congress of Chinese Mathematicians, Vol. I. 2019. 558 pp. = <b>Advanced Lectures in Mathematics. Vol. 43.</b> Paper. (International Press)	9781571463692	11,800	
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## Algebra

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230 pp. 10,170

The book presents the central facts of the local, projective and intrinsic theories of complex algebraic plane curves, with complete proofs and starting from low-level prerequisites. It includes Puiseux series, branches, intersection multiplicity, Bézout theorem, rational functions, Riemann-Roch theorem and rational maps (ISBN 978-3-030-29015-3)

10 月出版予定

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Vol. 95

272 pp. Hard 16,717  
Paper 7,312

On its original publication, this book provided the first elementary treatment of representation theory of finite groups of Lie type in book form. This second edition features new material to reflect the continuous evolution of the subject, including entirely new chapters on Hecke algebras, Green functions and Lusztig families. The authors cover the basic theory of representations of finite groups of Lie type, such as linear, unitary, orthogonal and symplectic groups  
(ISBN 978-1-108-48148-9 Hard)  
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2020 年 2 月出版予定

**CAMBRIDGE U.P.**

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9783030028947 9,240

60\* **SCHÜTT, M. & 塩田 徹治 (SHIODA, T.):**   
**Mordell–Weil Lattices**  
=Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge, Vol. 70  
348 pp. 18,490  
This book lays out the theory of Mordell–Weil lattices, a very powerful and influential tool at the crossroads of algebraic geometry and number theory, which offers many fruitful connections to other areas of mathematics. The book presents all the ingredients entering into the theory of Mordell–Weil lattices in detail, notably, relevant portions of lattice theory, elliptic curves, and algebraic surfaces (ISBN 978-981-32-9300-7)  
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<p>67* <b>YEKUTIELI, A.:</b>  <b>Derived Categories</b>                  =Cambridge Studies in                  Advanced Mathematics, Vol. 183</p> <p style="text-align: right;">630 pp. <span style="float: right;">13,582</span></p> <p>There have been remarkably few systematic expositions of the theory of derived categories since its inception in the work of Grothendieck and Verdier in the 1960s. This book is the first in-depth treatment of this important component of homological algebra. It carefully explains the foundations in detail before moving on to key applications in commutative and noncommutative algebra, many otherwise unavailable outside of research articles (ISBN 978-1-108-41933-8)</p> <p style="text-align: center;"><b>2020 年 1 月出版予定</b> <span style="float: right;"><b>CAMBRIDGE U.P.</b></span></p>	
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### Geometry & Topology

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		270 pp.		11,090
	This textbook provides a gentle introduction to intersection homology and perverse sheaves, where concrete examples and geometric applications motivate concepts throughout. By giving a taste of the main ideas in the field, the author welcomes new readers to this exciting area at the crossroads of topology, algebraic geometry, analysis, and differential equations (ISBN 978-3-030-27643-0)			
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84*	<b>Rubinstein, Y. A. &amp; Shiffman, B. (Ed.):</b> Advances in Complex Geometry. 259 pp. = <b>Contemporary Mathematics. Vol. 735.</b> Paper. (A.M.S.)	9-2019	9781470443337	19,188
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87\* **RATCLIFFE, J. G.:**  
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800 pp. 12,020

This book is an exposition of the theoretical foundations of hyperbolic manifolds. It is intended to be used both as a textbook and as a reference. This third edition greatly expands upon the second with an abundance of additional content, including a section dedicated to arithmetic hyperbolic groups (ISBN 978-3-030-31596-2)

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## Analysis

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94 **Alabau-Boussouira, F. et al (Ed.):** Trends in Control Theory and Partial Differential Equations. 2019. 276 pp. =**Springer INdAM Series. Vol. 32.** Hard. (Springer)  
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 10-2019 9783030269869 27,740

98\* **Ault, S. & Kicey, C.:** Counting Lattice Paths Using Fourier Methods. 136 pp. =**Applied and Numerical Harmonic Analysis.** Paper. (Birkhauser)  
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日時： 9月17日(火) ～ 9月20日(金)

場所： 金沢大学 角間キャンパス  
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恒例により書籍の展示を致します。

皆様のご来場を心よりお待ちしております。