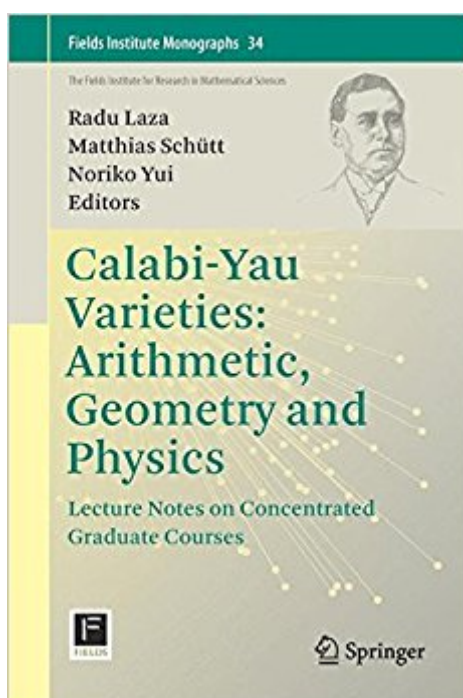


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Calabi-Yau Varieties: Arithmetic, Geometry And Physics: Lecture Notes On Concentrated Graduate Courses (Fields Institute Monographs)



Synopsis

This volume presents a lively introduction to the rapidly developing and vast research areas surrounding Calabi–Yau varieties and string theory. With its coverage of the various perspectives of a wide area of topics such as Hodge theory, Gross–Siebert program, moduli problems, toric approach, and arithmetic aspects, the book gives a comprehensive overview of the current streams of mathematical research in the area. The contributions in this book are based on lectures that took place during workshops with the following thematic titles: • Modular Forms Around String Theory, • Enumerative Geometry and Calabi–Yau Varieties, • Physics Around Mirror Symmetry, • Hodge Theory in String Theory. The book is ideal for graduate students and researchers learning about Calabi–Yau varieties as well as physics students and string theorists who wish to learn the mathematics behind these varieties.

Book Information

Series: Fields Institute Monographs (Book 34)

Hardcover: 547 pages

Publisher: Springer; 1st ed. 2015 edition (August 30, 2015)

Language: English

ISBN-10: 1493928295

ISBN-13: 978-1493928293

Product Dimensions: 6.2 x 1.4 x 9.5 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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