

ALM 35

Advanced Lectures in Mathematics

The Legacy of Bernhard Riemann After One Hundred and Fifty Years

黎曼的学术遗产：150 年巡礼

Editors: Lizhen Ji • Frans Oort • Shing-Tung Yau



HIGHER EDUCATION PRESS

ALM

The launch of this Advanced Lectures in Mathematics series is aimed at keeping mathematicians informed of the latest developments in mathematics, as well as to aid in the learning of new mathematical topics by students all over the world. Each volume consists of either an expository monograph or a collection of significant introductions to important topics. This series emphasizes the history and sources of motivation for the topics under discussion, and also gives an overview of the current status of research in each particular field. These volumes are the first source to which people will turn in order to learn new subjects and to discover the latest results of many cutting-edge fields in mathematics.

The Legacy of Bernhard Riemann After One Hundred and Fifty Years 黎曼的学术遗产：150 年巡礼

黎曼 (1826—1866) 对数学有着独特的创造力和广博的洞察力, 同时对数学的处理富有强有力的技巧和远见的思想。在他短暂的一生中, 黎曼对数学几乎所有的分支都有着广泛的影响。时至 150 年后的今日, 我们仍然要尝试理解在数学后续发展中的黎曼的工作以及他的数学思想。

我们邀请了一批具有前沿思想的专家撰写了相关的综述和展望性质的文章, 希望这些专题也会是黎曼所感兴趣的。

在本文集中, 我们讨论了若干历史细节, 并且着重介绍了黎曼所开创的数学领域的现代发展。本书对于希望了解黎曼深邃的数学思想及其对现代数学影响的读者具有重要的参考价值。



高教社网上书城

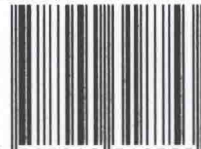


高教社天猫旗舰店



学科类别: 数学
academic.hep.com.cn

ISBN 978-7-04-031875-3



9 787040 318753 >

定价 168.00 元

ALM
35

The Legacy of Bernhard Riemann After One Hundred and Fifty Years

黎曼的学术遗产... 150年巡礼

Editors: Lizhen Ji • Frans Oort • Shing-Tung Yau



ALM 35

Advanced Lectures in Mathematics

The Legacy of Bernhard Riemann After One Hundred and Fifty Years

黎曼的学术遗产：150 年巡礼

Editors: Lizhen Ji • Frans Oort • Shing-Tung Yau

Copyright © 2016 by
Higher Education Press
4 Dewai Dajie, Beijing 100120, P. R. China, and
International Press
387 Somerville Ave, Somerville, MA, U. S. A.

All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage and retrieval system, without permission.

图书在版编目 (C I P) 数据

黎曼的学术遗产: 150 年巡礼 = The Legacy of
Bernhard Riemann After One Hundred and Fifty Years:
英文 / 季理真, (荷) 奥尔特 (Oort, F.), 丘成桐主编.
— 北京: 高等教育出版社, 2015. 12
ISBN 978-7-04-031875-3

I. ①黎… II. ①季… ②奥… ③丘… III. ①数学—
文集—英文 IV. ①O1-53

中国版本图书馆 CIP 数据核字 (2015) 第 274956 号

策划编辑 王丽萍

责任编辑 李 鹏

封面设计 姜 磊

责任印制 尤 静

出版发行 高等教育出版社
社 址 北京市西城区德外大街4号
邮政编码 100120
印 刷 北京天时彩色印刷有限公司
开 本 787mm×1092mm 1/16
印 张 48.25
字 数 1250 千字
购书热线 010-58581118

咨询电话 400-810-0598
网 址 <http://www.hep.edu.cn>
<http://www.hep.com.cn>
网上订购 <http://www.hepmall.com>
<http://www.hepmall.com.cn>
版 次 2015 年12月第1版
印 次 2015 年12月第1次印刷
定 价 168.00 元

本书如有缺页、倒页、脱页等质量问题, 请到所购图书销售部门联系调换
版权所有 侵权必究
物 料 号 31875-00

ADVANCED LECTURES IN MATHEMATICS

ADVANCED LECTURES IN MATHEMATICS

EXECUTIVE EDITORS

Shing-Tung Yau
Harvard University
Cambridge, MA. USA

Lizhen Ji
University of Michigan
Ann Arbor, MI. USA

Kefeng Liu
University of California, Los Angeles
Los Angeles, CA. USA
Zhejiang University
Hangzhou, China

EXECUTIVE BOARD

Chongqing Cheng
Nanjing University
Nanjing, China

Tatsien Li
Fudan University
Shanghai, China

Zhong-Ci Shi
Institute of Computational Mathematics
Chinese Academy of Sciences (CAS)
Beijing, China

Zhiying Wen
Tsinghua University
Beijing, China

Zhouping Xin
The Chinese University of Hong Kong
Hong Kong, China

Lo Yang
Institute of Mathematics
Chinese Academy of Sciences (CAS)
Beijing, China

Weiping Zhang
Nankai University
Tianjin, China

Xiangyu Zhou
Institute of Mathematics
Chinese Academy of Sciences (CAS)
Beijing, China

Xiping Zhu
Sun Yat-sen University
Guangzhou, China



Georg Friedrich Bernhard Riemann (1826—1866)



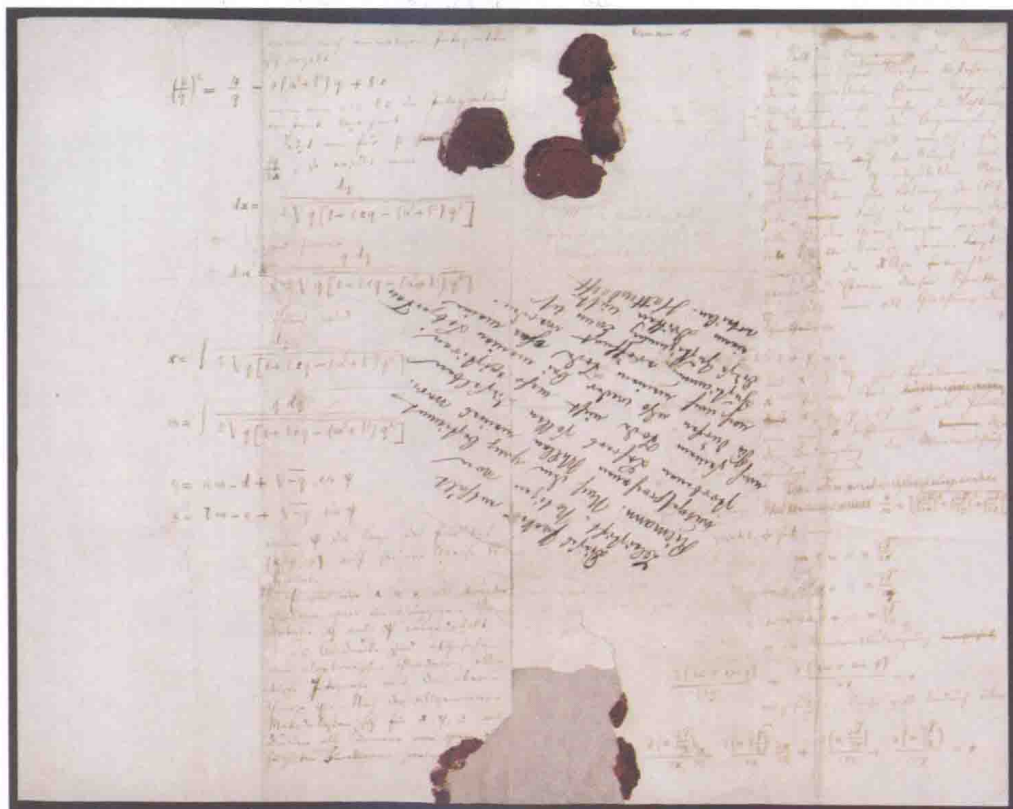
Bernhard Riemann as a student



Bernhard Riemann's former residence in Göttingen (1854—1857)



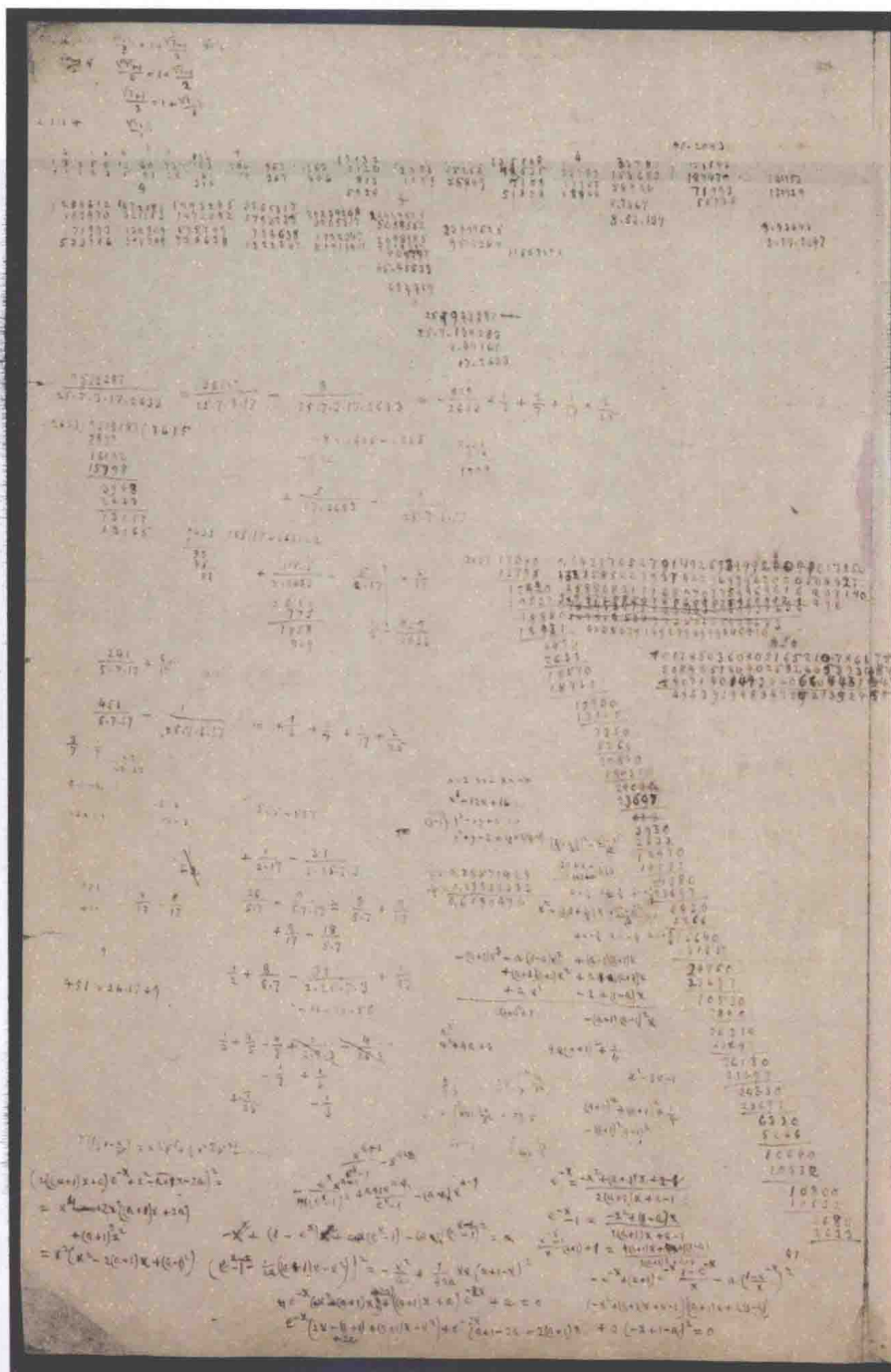
Bernhard Riemann's tombstone in Biganzolo, Italy



Über die Fläche vom kleinsten Inhalt bei gegebener Begrenzung (On the surface of least area with a given boundary) / Bernhard Riemann, Richard Dedekind, Heinrich Weber, Karl Hattendorff

(SUB Göttingen, Cod. Ms. B. Riemann 15 Cim., Fol. 1r and 23v)

Manuscripts from the Riemann Nachlass at Göttingen State and University Library (Niedersächsische Staats- und Universitätsbibliothek Göttingen) printed with permission. Thanks to Prof. Lizhen Ji for his kindly help. In the cover of the packet, there is a declaration by Hattendorff: "This packet contains some pencil notes by Riemann. According to the clearly stated wish of my teacher before his death, these notes should not be preserved after his death. Therefore, whether before or after I die, they cannot be published without my authorization. I have not transferred this power of authorization to other person."



Über die Anzahl der Primzahlen unter einer gegebenen Grösse ; Monatsberichte der Berliner, Akademie, November 1859 (On the number of primes less than a given magnitude) / Bernhard Riemann
(SUB Göttingen, Cod. Ms. B. Riemann 3 Cim., Fol. 3r, 63r and 37v)

Manuscripts from the Riemann Nachlass at Göttingen State and University Library (Niedersächsische Staats- und Universitätsbibliothek Göttingen) printed with permission. Thanks to Prof. Lizhen Ji for his kindly help.

