

## SELF-NORMALIZED LARGE DEVIATIONS

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Let  $\{X, X_n, n \geq 1\}$  be a sequence of independent and identically distributed random variables. The classical Cramér–Chernoff large deviation states that  $\lim_{n \rightarrow \infty} n^{-1} \ln P(\sum_{i=1}^n X_i)/n \geq x) = \ln \rho(x)$  if and only if the moment generating function of  $X$  is finite in a right neighborhood of zero. This paper uses  $n^{(p-1)/p} V_{n,p} = n^{(p-1)/p} (\sum_{i=1}^n |X_i|^p)^{1/p}$  ( $p > 1$ ) as the normalizing constant to establish a self-normalized large deviation without any moment conditions. A self-normalized moderate deviation, that is, the asymptotic probability of  $P(S_n/V_{n,p} \geq x_n)$  for  $x_n = o(n^{1/(p-1)})$ , is also found for any  $X$  in the domain of attraction of a normal or stable law. As a consequence, a precise constant in the self-normalized law of the iterated logarithm of Griffin and Kuelbs is obtained. Applications to the limit distribution of self-normalized sums, the asymptotic probability of the  $r$ -statistic as well as to the Erdős–Rényi–Shepp law of large numbers are also discussed.

1. Introduction. Throughout this paper, let  $(\Omega, \Sigma, P)$  denote a probability space, and let  $\{X, X_n, n \geq 1\}$  be a sequence of independent and identically distributed (i.i.d.) nondegenerate real-valued random variables on the probability space. Put

$$S_n = \sum_{i=1}^n X_i, \quad V_n^2 = \sum_{i=1}^n X_i^2, \quad n = 1, 2, \dots$$

The classical Cramér–Chernoff large deviation [Chernoff (1952)] states that if (A)

$$Ee^{t_0 X} < \infty \text{ for some } t_0 > 0,$$

then for every  $x > EX$ ,

$$\lim_{n \rightarrow \infty} n^{-1} \ln P\left(\frac{S_n}{n} \geq x\right) = \ln \rho(x),$$

or equivalently,

$$(1.1) \quad \lim_{n \rightarrow \infty} P\left(\frac{S_n}{n} \geq x\right)^{1/n} = \rho(x),$$

where  $\rho(x) = \inf_{t \geq 0} e^{-tx} Ee^{tX}$ .

Roughly speaking, this type of large deviation shows that the convergence rate in the law of large numbers is exponential if the moment generating

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# Chapter 3 Self Normalized Large Deviations

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### Chapter 3 Self Normalized Large Deviations:

Self-Normalized Processes Victor H. Peña, Tze Leung Lai, Qi-Man Shao, 2008-12-25 Self-normalized processes are of common occurrence in probabilistic and statistical studies. A prototypical example is Student's  $t$  statistic introduced in 1908 by Gosset whose portrait is on the front cover. Due to the highly non-linear nature of these processes, the theory experienced a long period of slow development. In recent years, there have been a number of important advances in the theory and applications of self-normalized processes. Some of these developments are closely linked to the study of central limit theorems which imply that self-normalized processes are approximate pivots for statistical inference. The present volume covers recent developments in the area including self-normalized large and moderate deviations and laws of the iterated logarithms for self-normalized martingales. This is the first book that systematically treats the theory and applications of self-normalization.

**Asymptotic Theory in Probability and Statistics with Applications** T. L. Lai, Lianfen Qian, Qi-Man Shao, 2008. Presents a collection of 18 papers, many of which are surveys on asymptotic theory in probability and statistics with applications to a variety of problems. This volume comprises three parts: limit theorems, statistics and applications, and mathematical finance and insurance. It is suitable for graduate students in probability and statistics.

Probability Theory and Mathematical Statistics B. Grigelionis, J. Kubilius, V. Paulauskas, H. Pragarauskas, R. Rudzkiš, V. Statulevičius, 2020-05-05. No detailed description available for Probability Theory and Mathematical Statistics.

**Asymptotic Theory of Statistics and Probability** Anirban DasGupta, 2008-02-06. This book developed out of my year-long course on asymptotic theory at Purdue University. To some extent, the topics coincide with what I cover in that course. There are already a number of well-known books on asymptotics. This book is quite different. It covers more topics in one source than

are available in any other single book on asymptotic theory. Numerous topics covered in this book are available in the literature in a scattered manner and they are brought together under one umbrella in this book. Asymptotic theory is a central unifying theme in probability and statistics. My main goal in writing this book is to give its readers a feel for the incredible scope and reach of asymptotics. I have tried to write this book in a way that is accessible and to make the reader appreciate the beauty of theory and the insights that only theory can provide. Essentially every theorem in the book comes with at least one reference preceding or following the statement of the theorem. In addition, I have provided a separate theorem-by-theorem reference as an entry on its own in the front of the book to make it extremely convenient for the reader to find a proof that was not provided in the text. Also particularly worth mentioning is a collection of nearly 300 practically useful inequalities that I have collected together from numerous sources. This is appended at the very end of the book.

**The Annals of Statistics**, 2007. **Mathematical Reviews**, 2005. **Probability, Finance And Insurance, Proceedings Of A Workshop** Siu Pang Yung, Tze Leung Lai, Hailiang Yang, 2004-06-28. This workshop was the first of its kind in bringing together researchers in probability theory, stochastic processes, insurance, and finance from mainland China, Taiwan, Hong Kong, and Singapore.

Australia and the United States In particular as China has joined the WTO there is a growing demand for expertise in actuarial sciences and quantitative finance The strong probability research and graduate education programs in many of China s universities can be enriched by their outreach in fields that are of growing importance to the country s expanding economy and the workshop and its proceedings can be regarded as the first step in this direction This book presents the most recent developments in probability finance and actuarial sciences especially in Chinese probability research It focuses on the integration of probability theory with applications in finance and insurance It also brings together academic researchers and those in industry and government With contributions by leading authorities on probability theory particularly limit theory and large derivations valuation of credit derivatives portfolio selection dynamic protection and ruin theory it is an essential source of ideas and information for graduate students and researchers in probability theory mathematical finance and actuarial sciences and thus every university should acquire a copy The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences *Probability, Finance and Insurance* T. L. Lai,Hailiang Yang,Siu Pang Yung,2004 This workshop was the first of its kind in bringing together researchers in probability theory stochastic processes insurance and finance from mainland China Taiwan Hong Kong Singapore Australia and the United States In particular as China has joined the WTO there is a growing demand for expertise in actuarial sciences and quantitative finance The strong probability research and graduate education programs in many of China s universities can be enriched by their outreach in fields that are of growing importance to the country s expanding economy and the workshop and its proceedings can be regarded as the first step in this direction This book presents the most recent developments in probability finance and actuarial sciences especially in Chinese probability research It focuses on the integration of probability theory with applications in finance and insurance It also brings together academic researchers and those in industry and government With contributions by leading authorities on probability theory particularly limit theory and large derivations valuation of credit derivatives portfolio selection dynamic protection and ruin theory it is an essential source of ideas and information for graduate students and researchers in probability theory mathematical finance and actuarial sciences and thus every university should acquire a copy The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences Journal of the American Statistical Association ,2002 **Progress in Low Temperature Physics** Cornelis Jacobus Gorter,1955 Vol 6 includes contents of v 1 5 *The Fractal Approach to Heterogeneous Chemistry* D. Avnir,1989-06-16 Discusses applications of fractal geometry to chemical systems involving complex and highly irregular

structures These new mathematical techniques have particular applications in chromatographic adsorbents colloidal systems irregular surfaces branched polymers and many other areas of polymer colloidal and surface chemistry **Optics Letters**, 1996 Current Index to Statistics, Applications, Methods and Theory, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Index of Mathematical Papers**, 1973 Cumulative Index to IMS Scientific Journals, 1960-1989 Bruce E. Trumbo, Richard K. Burdick, 1990 **Успехи Математических Наук**, 1960 SeaWiFS Technical Report Series, 1997 Theory of Probability and Mathematical Statistics, 1996 **Low Temperature Physics & Chemistry**, 1978 *Energy Research Abstracts*, 1985

Chapter 3 Self Normalized Large Deviations: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. Chapter 3 Self Normalized Large Deviations : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Chapter 3 Self Normalized Large Deviations : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Chapter 3 Self Normalized Large Deviations**

1. Understanding the eBook Chapter 3 Self Normalized Large Deviations
  - The Rise of Digital Reading Chapter 3 Self Normalized Large Deviations
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Self Normalized Large Deviations
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 3 Self Normalized Large Deviations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Self Normalized Large Deviations
  - Personalized Recommendations
  - Chapter 3 Self Normalized Large Deviations User Reviews and Ratings
  - Chapter 3 Self Normalized Large Deviations and Bestseller Lists
5. Accessing Chapter 3 Self Normalized Large Deviations Free and Paid eBooks
  - Chapter 3 Self Normalized Large Deviations Public Domain eBooks
  - Chapter 3 Self Normalized Large Deviations eBook Subscription Services
  - Chapter 3 Self Normalized Large Deviations Budget-Friendly Options
6. Navigating Chapter 3 Self Normalized Large Deviations eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 3 Self Normalized Large Deviations Compatibility with Devices
  - Chapter 3 Self Normalized Large Deviations Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 3 Self Normalized Large Deviations
  - Highlighting and Note-Taking Chapter 3 Self Normalized Large Deviations
  - Interactive Elements Chapter 3 Self Normalized Large Deviations
8. Staying Engaged with Chapter 3 Self Normalized Large Deviations

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 3 Self Normalized Large Deviations
9. Balancing eBooks and Physical Books Chapter 3 Self Normalized Large Deviations
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 3 Self Normalized Large Deviations
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 3 Self Normalized Large Deviations
- Setting Reading Goals Chapter 3 Self Normalized Large Deviations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 3 Self Normalized Large Deviations
- Fact-Checking eBook Content of Chapter 3 Self Normalized Large Deviations
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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