Atle Selberg Collected Papers Vol 2

Collected PapersCollected Papers IICollected Papers ICollected PapersThe Development of Prime Number TheoryCollected Papers from the Faculty of Science, Osaka UniversityAn Introduction to Sieve Methods and Their ApplicationsRational Number Theory in the 20th CenturyCollected Papers from the Faculty of Science, Osaka Imperial UniversityContributions to the Theory of Zeta-FunctionsThe Collected Papers of Sarvadaman Chowla: 1936-1961Bounded Gaps Between PrimesGroups Acting on Hyperbolic SpaceThe Collected Papers of Sarvadaman Chowla: 1925-1935Acta Scientiarum MathematicarumSerdica Mathematical JournalCollected Papers IThe Collected Papers of Sarvadaman Chowla: 1962-1986Collected Papers of Paul TuránProceedings of the Japan Academy Atle Selberg Atle Selberg Atle Selberg Harry Bischoff Weiss Wladyslaw Narkiewicz Alina Carmen Cojocaru Władysław Narkiewicz Ōsaka Daigaku. Rigakubu Shigeru Kanemitsu Sarvadaman Chowla Kevin Broughan Juergen Elstrodt Sarvadaman Chowla József Attila Tudományegyetem Harish-Chandra Sarvadaman Chowla Paul Turán Nihon Gakushiin

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atle selberg s early work which lies in the fields of analysis and number theory concerns the riemann zeta function dirichlet s l functions the fourier coefficients of modular forms the distribution of prime numbers and the general sieve method it is brilliant and unsurpassed and is in the finest classical tradition his later work which cuts across function theory operator theory spectral theory group theory topology differential geometry and number theory has enlarged and transfigured the whole concept and structure of arithmetic it exemplifies the modern tradition at its sprightly best and reveals selberg to be one of the master mathematicians of our time this publication will enable the reader to perceive the depth and originality of atle selberg s ideas and results and sense the scale and intensity of their influence on contemporary mathematical thought the second volume contains material on which selberg has lectured some later papers from 1988 onward and in the major part the lectures on sieves

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1 people were already interested in prime numbers in ancient times and the first result concerning the distribution of primes appears in euclid s elemen ta where we find a proof of their infinitude now regarded as canonical one feels that euclid s argument has its place in the book often quoted by the late paul erdos where the ultimate forms of mathematical arguments are preserved proofs of most other results on prime number distribution seem to be still far away from their optimal form and the aim of this book is to present the development of methods with which such problems were attacked in the course of time this is not a historical book since we refrain from giving biographical details of the people who have played a role in this development and we do not discuss the questions concerning why each particular person became in terested

in primes because usually exact answers to them are impossible to obtain our idea is to present the development of the theory of the distribu tion of prime numbers in the period starting in antiquity and concluding at the end of the first decade of the 20th century we shall also present some later developments mostly in short comments although the reader will find certain exceptions to that rule the period of the last 80 years was full of new ideas we mention only the applications of trigonometrical sums or the advent of various sieve methods and certainly demands a separate book

rather than focus on the technical details which can obscure the beauty of sieve theory the authors focus on examples and applications developing the theory in parallel

the last one hundred years have seen many important achievements in the classical part of number theory after the proof of the prime number theorem in 1896 a quick development of analytical tools led to the invention of various new methods like brun s sieve method and the circle method of hardy littlewood and ramanujan developments in topics such as prime and additive number theory and the solution of fermat s problem rational number theory in the 20th century from pnt to flt offers a short survey of 20th century developments in classical number theory documenting between the proof of the prime number theorem and the proof of fermat s last theorem the focus lays upon the part of number theory that deals with properties of integers and rational numbers chapters are divided into five time periods which are then further divided into subject areas with the introduction of each new topic developments are followed through to the present day this book will appeal to graduate researchers and student in number theory however the presentation of main results without technicalities will make this accessible to anyone with an interest in the area

this volume provides a systematic survey of almost all the equivalent assertions to the functional equations zeta symmetry which zeta functions satisfy thus streamlining previously published results on zeta functions the equivalent relations are given in the form of modular relations in fox h function series which at present include all that have been considered as candidates for ingredients of a series the results are presented in a clear and simple manner for readers to readily apply without much knowledge of zeta functions this volume aims to keep a record of the 150 year old heritage starting from riemann on zeta functions which are ubiquitous in all mathematical sciences wherever there is a notion of the norm it provides almost all possible equivalent relations to the zeta functions without requiring a reader s deep knowledge on their definitions this

can be an ideal reference book for those studying zeta functions

searching for small gaps between consecutive primes is one way to approach the twin primes conjecture one of the most celebrated unsolved problems in number theory this book documents the remarkable developments of recent decades whereby an upper bound on the known gap length between infinite numbers of consecutive primes has been reduced to a tractable finite size the text is both introductory and complete the detailed way in which results are proved is fully set out and plenty of background material is included the reader journeys from selected historical theorems to the latest best result exploring the contributions of a vast array of mathematicians including bombieri goldston motohashi pintz yildirim zhang maynard tao and polymath8 the book is supported by a linked and freely available package of computer programs the material is suitable for graduate students and of interest to any mathematician curious about recent breakthroughs in the field

this book is concerned with discontinuous groups of motions of the unique connected and simply connected riemannian 3 manifold of constant curva ture 1 which is traditionally called hyperbolic 3 space this space is the 3 dimensional instance of an analogous riemannian manifold which exists uniquely in every dimension n 2 the hyperbolic spaces appeared first in the work of lobachevski in the first half of the 19th century very early in the last century the group of isometries of these spaces was studied by steiner when he looked at the group generated by the inversions in spheres the ge ometries underlying the hyperbolic spaces were of fundamental importance since lobachevski bolyai and gauß had observed that they do not satisfy the axiom of parallels already in the classical works several concrete coordinate models of hy perbolic 3 space have appeared they make explicit computations possible and also give identifications of the full group of motions or isometries withwell known matrix groups one such model due to h poincare is the upper 3 half space ih in jr the group of isometries is then identified with an exten sion of index 2 of the group psl 2

from the preface by v s varadarajan these volumes of the collected papers of harish chandra are being brought out in response to a widespread feeling in the mathematical community that they would immensely benefit scholars and research workers especially those in analysis representation theory arithmetic mathematical physics and other related areas lt is hoped that in addition to making his contributions more accessible by collecting them in one place these volumes would help focus renewed attention on his ideas and methods as

well as lend additional perspective to them the papers are arranged chronologically volume i collects harish chandra s articles written between 1944 and 1954

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