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Mathematics A

Paper 2 (Calculator)

Higher Tier

Friday 13 June 2014 – Morning

Time: 1 hour 45 minutes

Paper Reference

1MA0/2H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks



Instructions

- Use **black ink or ball-point pen**.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- **Answer all questions.**
- **Answer the questions in the spaces provided** – there may be more space than you need.
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

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Mathematical Aspects of Computer and Information Sciences Daniel Slamanig, Elias Tsigaridas, Zafeirakis Zafeirakopoulos, 2020-03-18 This book constitutes the refereed proceedings of the 8th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2019 held in Gebze Turkey in November 2019 The 22 revised papers and 14 short papers presented were carefully reviewed and selected from 66 submissions The papers are organized in the following topical sections algorithms and foundation security and cryptography combinatorics codes designs and graphs data modeling and machine learning tools and software track

Birational Geometry, Kähler-Einstein Metrics and Degenerations Ivan Cheltsov, Xiuxiong Chen, Ludmil Katzarkov, Jihun Park, 2023-05-23 This book collects the proceedings of a series of conferences dedicated to birational geometry of Fano varieties held in Moscow Shanghai and Pohang The conferences were focused on the following two related problems existence of Kähler-Einstein metrics on Fano varieties degenerations of Fano varieties on which two famous conjectures were recently proved The first is the famous Borisov Alexeev-Borisov Conjecture on the boundedness of Fano varieties proved by Caucher Birkar for which he was awarded the Fields medal in 2018 and the second one is the arguably even more famous Tian-Yau-Donaldson Conjecture on the existence of Kähler-Einstein metrics on smooth Fano varieties and K-stability which was proved by Xiuxiong Chen Sir Simon Donaldson and Song Sun The solutions for these longstanding conjectures have opened new directions in birational and Kähler geometries These research directions generated new interesting mathematical problems attracting the attention of mathematicians worldwide These conferences brought together top researchers in both fields birational geometry and complex geometry to solve some of these problems and understand the relations between them The result of this activity is collected in this book which contains contributions by sixty-nine mathematicians who contributed forty-three research and survey papers to this volume Many of them were participants of the Moscow Shanghai Pohang conferences while the others helped to expand the research breadth of the volume the diversity of their contributions reflects the vitality of modern Algebraic Geometry

U.S. Army Register United States. Department of the Army, 1963

Nuclear Reactions of Astrophysical Interest Scilla Degl'Innocenti, Livio Lamia, Rosario Gianluca Pizzone, 2021-07-29

Cumulated Index Medicus, 2000

Stable Isotopes in Tree Rings Rolf T. W. Siegwolf, J. Renée Brooks, John Roden, Matthias Saurer, 2022-06-06 This Open Access volume highlights how tree ring stable isotopes have been used to address a range of environmental issues from paleoclimatology to forest management and anthropogenic impacts on forest growth It will further evaluate weaknesses and strengths of isotope applications in tree rings In contrast to older tree ring studies which predominantly applied a pure statistical approach this book will focus on physiological mechanisms that influence isotopic signals and reflect environmental impacts Focusing on connections between physiological responses and drivers of isotope variation will also clarify why environmental impacts are not linearly reflected in isotope ratios and tree ring widths This

volume will be of interest to any researcher and educator who uses tree rings and other organic matter proxies to reconstruct paleoclimate as well as to understand contemporary functional processes and anthropogenic influences on native ecosystems. The use of stable isotopes in biogeochemical studies has expanded greatly in recent years making this volume a valuable resource to a growing and vibrant community of researchers. *The Times Index*, 2004 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement *Science Citation Index*, 1994 Vols for 1964 have guides and journal lists

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