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Afternoon (Time: 1 hour 10 minutes)					Paper Reference <b>1SC0/1PH</b>				
<b>Combined Science</b> <b>Paper 3: Physics 1</b>									
<b>Higher Tier</b>									
You must have: Calculator, ruler								Total Marks <b>42</b>	

### 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.
- Any diagrams may NOT be accurately drawn, unless otherwise indicated.
- You must **show all your working out** with your answer clearly identified at the end of your solution.

### Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets  
– use this as a guide as to how much time to spend on each question.
- In questions marked with an asterisk (\*), marks will be awarded for your ability to structure your answer logically showing how the points that you make are related or follow on from each other where appropriate.
- A list of equations is included at the end of this exam paper.

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤

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# January 2013 Physics Higher Paper

**Chris Brink**



## January 2013 Physics Higher Paper:

**Atlantis Rising 100 - July/August 2013** J. Douglas Kenyon, 2013-07-01 Andrews Collins GOBEKLI TEPE THE COSMIC CONNECTION On Astonishing New Findings from Before 9 000 BC William B Stoecker THE COMING NEW SPECIES Should We Be Expecting Strange Creatures Soon Jeff Nisbet ANCIENT CODE OF THE TEMPLE BUILDERS The Shared Secrets of Rosslyn Chapel Chartres Cathedral Michael E Tymn THE MAN WHO PROVED HE WASN T DEAD The Very Strange Story of the Late George Pellaw Steven Sora VIKINGS IROQUOIS BLOOD BROTHERS Just How Much Did These People Owe to Each Other Chinese Students in UK Further Education Rosemary A. Reynolds, 2017-12-15 Chinese students in the UK have been increasing in number for many years yet competition from other Western educators and increasing investment in China's own education system has led to concern that UK institutions may soon see a decline in their market share Dr Reynolds addresses this issue in Chinese Students in UK Further Education by attempting to understand students' experiences from their perspective Beginning with an exploration of why these students choose to come and study in the UK and why they are coming at younger ages the book goes on to discuss topics such as risk technology and diversity in order to understand which factors have the greatest influence on where they choose to study and whether they choose to remain at an institution Drawing on data from two different education institutions providers of GCSE A level programmes for students aged 16-18 years Dr Reynolds attempts to understand what these students experience during their studies how they manage new social relationships and whether upon course completion they achieved the results they desired at the outset Moreover the book aims to ascertain whether the students feel in hindsight that the decision to risk investing in UK further education was right and what they might communicate about UK study to contacts in China and elsewhere The book examines what further education institutions do well and where they might improve to help develop Chinese students' educational experiences As such it will be essential reading for academics researchers and postgraduates in the fields of further education sociology of education international and intercultural education and mobility studies *Selected Papers Of Lev P Gor'kov* Lev P Gor'kov, 2014-09-26 The author of this unique volume Lev P Gor'kov is internationally renowned for his seminal contribution in the fundamentals of the Theory of Superconductivity Theory of Metals the field of Quantum Statistical Physics and more generally Organic Metals and the like Each reprints group is preceded by the author's introductions and commentaries clarifying the formulation of a problem summarizing the essence of the results and placing them in the context of recent developments The author belongs to the last generation of scientists who were the direct disciples of the legendary Russian theorist Lev Landau And Gor'kov's achievements reflect the unique style and the originality of this famous Scientific School As with other Russian scientists of his generation many of the pioneering papers by Lev Gor'kov have been published in the Russian journals that are hard to reach for modern readers students and postdocs Allowing readers a glimpse into the various ways that the field of condensed matter physics was evolving for more than half a century the volume is a valuable

source for historians of science      The Struggle to Reform Our Colleges Derek Bok, 2017-08-28 Why efforts to improve American higher educational attainment haven't worked and where to go from here During the first decade of this century many commentators predicted that American higher education was about to undergo major changes that would be brought about under the stimulus of online learning and other technological advances Toward the end of the decade the president of the United States declared that America would regain its historic lead in the education of its workforce within the next ten years through a huge increase in the number of students earning quality college degrees Several years have elapsed since these pronouncements were made yet the rate of progress has increased very little if at all in the number of college graduates or the nature and quality of the education they receive In The Struggle to Reform Our Colleges Derek Bok seeks to explain why so little change has occurred by analyzing the response of America's colleges the influence of students employers foundations accrediting organizations and government officials and the impact of market forces and technological innovation In the last part of the book Bok identifies a number of initiatives that could improve the performance of colleges and universities The final chapter examines the process of change itself and describes the strategy best calculated to quicken the pace of reform and enable colleges to meet the challenges that confront them      **Physics and Necessity** Olivier Darrigol, 2014 This book recounts a few ingenious attempts to derive physical theories by reason only beginning with Descartes geometric construction of the world and finishing with recent derivations of quantum mechanics from natural axioms      The Rise and Fall of Emerging Powers Ray Kiely, 2016-08-23 This book critically examines the argument that the Global South has risen in recent years that its rise has intensified since the 2008 financial crisis and that this in turn has hastened the decline of the West and the US in particular Drawing on critical theories of international relations and development Kiely puts the rise into context and shows how the factors that aided the rise of the South have now given way to a less favourable international context Indeed economic problems in China and other leading countries falling commodity prices and capital outflows point us in the direction of identifying a new phase of the 2008 financial crisis an emerging markets crisis Kiely argues that this is a crisis which demonstrates the continued dependent position of the South in the context of the uneven and combined development of international capitalism      History of Oxford University Press: Volume III Ian Anders Gadd, Simon Eliot, William Roger Louis, Keith Robbins, 2013-11 The history of Oxford University Press spans five centuries of printing and publishing This third volume begins with the establishment of the New York office in 1896 It traces the expansion of OUP in America Australia Asia and Africa and far reaching changes in the business and technology of publishing up to 1970      **The Soul of a University** Chris Brink, 2018-07-01 What is the role of a university in society In this innovative book Chris Brink offers the timely reminder that it should have social purpose as well as achieve academic excellence The current obsession with rankings and league tables has perpetuated inequality and is preventing social mobility This book shows how universities can and should respond to societal challenges and promote positive social change

Advancing Women in Science Willie Pearson, Jr., Lisa M. Frehill, Connie L. McNeely, 2015-04-23 Many countries have implemented policies to increase the number and quality of scientific researchers as a means to foster innovation and spur economic development and progress To that end grounded in a view of women as a rich yet underutilized knowledge and labor resource a great deal of recent attention has focused on encouraging women to pursue education and careers in science even in countries with longstanding dominant patriarchal regimes Yet overall science remains an area in which girls and women are persistently disadvantaged This book addresses that situation It bridges the gap between individual and societal level perspectives on women in science in a search for systematic solutions to the challenge of building an inclusive and productive scientific workforce capable of creating the innovation needed for economic growth and societal wellbeing This book examines both the role of gender as an organizing principle of social life and the relative position of women scientists within national and international labor markets Weaving together and engaging research on globalization the social organization of science and gendered societal relations as key social forces this book addresses critical issues affecting women s contributions and participation in science Also while considering women s representation in science as a whole examinations of women in the chemical sciences computing mathematics and statistics are offered as examples to provide insights into how differing disciplinary cultures functional tasks and socio historical conditions can affect the advancement of women in science relative to important variations in educational and occupational realities Edited by three social scientists recognized for their expertise in science and technology policy education workforce participation and stratification this book includes contributions from an intellectually diverse group of international scholars and analysts and features compelling cases and initiatives from around the world with implications for research industry practice education and policy development

**Art And Practice Of Mathematics, The: Interviews At The Institute For Mathematical Sciences, National University Of Singapore, 2010-2020** Yu Kiang Leong, 2021-06-23 This book constitutes the second volume of interviews with prominent mathematicians and mathematical scientists who visited the Institute for Mathematical Sciences National University of Singapore First published in the Institute s newsletter Imprints during the period 2010 2020 they offer glimpses of an esoteric universe as viewed and experienced by some of the leading and creative practitioners of the craft of mathematics The topics covered in this volume are wide ranging running from pure mathematics logic number theory algebraic geometry to applied mathematics mathematical modeling fluid dynamics through probability and statistics mathematical physics theoretical computer science and financial mathematics This eclectic mix of the abstract and the concrete should interest those who are enthralled by the mystique and power of mathematics whether they are students researchers or the non specialists By briefly tracing the paths traveled by the pioneers of different national backgrounds the interviews attempt to put a cultural face to an intellectual endeavor that is often perceived as dry and austere by the uninitiated They should also interest those who are intrigued by the influence of the environment on the creative spirit and in

particular those who are interested in the psychology and history of ideas

### **Describing the Dynamics of “Free”**

**Material Components in Higher-Dimensions** Dr. Martin Concoyle, 2014-01-16 This book is an introduction to the simple math patterns used to describe fundamental stable spectral orbital physical systems represented as discrete hyperbolic shapes The containment set has many dimensions and these dimensions possess macroscopic geometric properties which are discrete hyperbolic shapes Thus it is a description that transcends the idea of materialism i e it is higher dimensional and it can also be used to model a life form as a unified high dimension geometric construct which generates its own energy and which has a natural structure for memory where this construct is made in relation to the main property of the description being the spectral properties of both material systems and of the metric spaces that contain the material systems where material is simply a lower dimension metric space and where both material components and metric spaces are in resonance with the containing space

**Alice and Bob Meet the Wall of Fire** Thomas Lin, 2018-12-04 Accessible essential coverage of the latest findings in challenging speculative and cutting edge science from the Pulitzer Prize winning leaders in scientific journalism at Quanta Magazine If you re a science and data nerd like me you may be interested in Alice and Bob Meet the Wall of Fire from Quanta Magazine and Thomas Lin Bill Gates These stories reveal the latest efforts to untangle the mysteries of the universe Bringing together the best and most interesting science stories appearing in Quanta Magazine over the past five years Alice and Bob Meet the Wall of Fire reports on some of the greatest scientific minds as they test the limits of human knowledge Quanta under editor in chief Thomas Lin is the only popular publication that offers in depth coverage of today s challenging speculative cutting edge science It communicates science by taking it seriously wrestling with difficult concepts and clearly explaining them in a way that speaks to our innate curiosity about our world and ourselves In the title story Alice and Bob beloved characters of various thought experiments in physics grapple with gravitational forces possible spaghettification and a massive wall of fire as Alice jumps into a black hole Another story considers whether the universe is impossible in light of experimental results at the Large Hadron Collider We learn about quantum reality and the mystery of quantum entanglement explore the source of time s arrow and witness a eureka moment when a quantum physicist exclaims Finally we can understand why a cup of coffee equilibrates in a room We reflect on humans enormous skulls and the Brain Boom consider the evolutionary benefits of loneliness peel back the layers of the newest artificial intelligence algorithms follow the battle for the heart and soul of physics and mourn the disappearance of the diphoton bump revealed to be a statistical fluctuation rather than a revolutionary new particle Winner of the 2022 Pulitzer Prize for Explanatory Reporting Quanta once again gives us a front row seat to scientific discovery Contributors Philip Ball K C Cole Robbert Dijkgraaf Dan Falk Courtney Humphries Ferris Jabr Katia Moskvitch George Musser Michael Nielsen Jennifer Ouellette John Pavlus Emily Singer Andreas von Bubnoff Frank Wilczek Natalie Wolchover Carl Zimmer

### **Impact Assessment of Stem Initiatives in**

**Improving Educational Outcomes** Pallavi Amitava Banerjee, 2017-08-09 Impact assessment of STEM initiatives in

improving educational outcomes explores research evidence and labour market reports to show why successive governments think STEM education matters It maps the policy background and the STEM crisis in the UK which led to the launch of the STEM informal education sector These schemes funded by the government educational charities and private organisations have now mushroomed at the local and national level In the midst of so many activities for various age groups do we know what works or works better for specific group of students Does one size fit all The book provides a detailed report of a longitudinal national evaluation conducted in the UK by making use of official datasets The activities evaluated here have not had a major influence on educational outcomes such as improved standardized national test results or increased STEM subject choices The robust evaluation protocol described in this well structured and thoughtful text will help schools to decide what works best for the students activity providers to evaluate long term outcomes for the activities they run researchers to replicate the protocol for similar activities in other settings Masters and PhD students understand how evidence from research can be used to inform policy and practice The results and implications combined with the recommendations made here will interest all those who are directly involved in the delivery of these enrichment and enhancement activities practitioners using evidence policy makers the research community and schools wanting to run their own evaluations

*House of Commons - Business, Innovation and Skills Committee: Open Access - HC 99-I* Great Britain: Parliament: House of Commons: Business, Innovation and Skills Committee, 2013-09-10 The Government's commitment to increasing access to published research findings and its desire to achieve full open access are welcomed in this report from the Business Innovation and Skills Committee However whilst Gold open access where authors publish their articles in an open access journal that provides free immediate open access to all of its articles on the publisher's website is a desirable ultimate goal focusing on it during the transition to a fully open access world is a mistake The Government and Research Council UK should reconsider their preference for Gold open access during the five year transition period and give due regard to the evidence of the vital role that Green open access and repositories have to play as the UK moves towards full open access Authors opting for Green open access publish in any subscription journal and then make their peer reviewed final draft freely accessible online by self archiving or depositing the article in a repository either institutional or disciplinary upon acceptance for publication Other recommendations include promotion of standardisation and compliance across subject and institutional repositories mitigation against the impact on universities of paying Article Processing Charges out of their own reserves introduce a reduced VAT rate for e journals non disclosure clauses should not be used in publishing contracts that include the use of public funds BIS must review its consultation processes to ensure that lessons are learned from the lack of involvement of businesses particularly SMEs in the formation of open access policy

*Data Management for Researchers* Kristin Briney, 2015-09-01 A comprehensive guide to everything scientists need to know about data management this book is essential for researchers who need to learn how to organize document and take care of their own data

Researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research. Kristin Briney offers practical advice and clearly explains policies and principles in an accessible and in depth text that will allow researchers to understand and achieve the goal of better research data management. *Data Management for Researchers* includes sections on The data problem, an introduction to the growing importance and challenges of using digital data in research. Covers both the inherent problems with managing digital information as well as how the research landscape is changing to give more value to research datasets and code. The data lifecycle, a framework for data's place within the research process and how data's role is changing. Greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data. Planning for data management covers the many aspects of data management and how to put them together in a data management plan. This section also includes sample data management plans. Documenting your data, an often overlooked part of the data management process but one that is critical to good management. Data without documentation are frequently unusable. Organizing your data explains how to keep your data in order using organizational systems and file naming conventions. This section also covers using a database to organize and analyze content. Improving data analysis covers managing information through the analysis process. This section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier such as spreadsheet best practices. It also examines practices for research code including version control systems. Managing secure and private data: many researchers are dealing with data that require extra security. This section outlines what data falls into this category and some of the policies that apply before addressing the best practices for keeping data secure. Short term storage deals with the practical matters of storage and backup and covers the many options available. This section also goes through the best practices to insure that data are not lost. Preserving and archiving your data: digital data can have a long life if properly cared for. This section covers managing data in the long term including choosing good file formats and media as well as determining who will manage the data after the end of the project. Sharing/publishing your data addresses how to make data sharing across research groups easier as well as how and why to publicly share data. This section covers intellectual property and licenses for datasets before ending with the altmetrics that measure the impact of publicly shared data. Reusing data: as more data are shared it becomes possible to use outside data in your research. This chapter discusses strategies for finding datasets and lays out how to cite data once you have found it. This book is designed for active scientific researchers but it is useful for anyone who wants to get more from their data: academics, educators, professionals or anyone who teaches data management, sharing and preservation. An excellent practical treatise on the art and practice of data management, this book is essential to any researcher regardless of subject or discipline.

Robert Buntrock  
Chemical Information Bulletin      **Dayside Magnetosphere Interactions** Qiugang Zong, Philippe Escoubet, David Sibeck, Guan Le, Hui Zhang, 2020-04-07 Exploring the processes and phenomena of Earth's dayside magnetosphere. Energy



and momentum transfer initially taking place at the dayside magnetopause is responsible for a variety of phenomenon that we can measure on the ground Data obtained from observations of Earth s dayside magnetosphere increases our knowledge of the processes by which solar wind mass momentum and energy enter the magnetosphere Dayside Magnetosphere Interactions outlines the physics and processes of dayside magnetospheric phenomena the role of solar wind in generating ultra low frequency waves and solar wind magnetosphere ionosphere coupling Volume highlights include Phenomena across different temporal and spatial scales Discussions on dayside aurora plume dynamics and related dayside reconnection Results from spacecraft observations ground based observations and simulations Discoveries from the Magnetospheric Multiscale Mission and Van Allen Probes era Exploration of foreshock bow shock magnetosheath magnetopause and cusps Examination of similar processes occurring around other planets The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book from this Q A with the editors

**Universities and Innovation Economies** Peter Murphy, 2016-02-24 Students drop out of universities in large numbers many graduate to jobs that do not require a degree and a large number learn little at university whilst graduate salaries have shrunk over time and student loan debt and default have grown University research achievements have declined while university administration has expanded massively The contemporary university is mired in auditing regulation waste and aimlessness and its contribution to serious social innovation has deteriorated markedly The miserable state of the universities reflects a larger social reality as bureaucratic capitalism has replaced creative capitalism Universities and Innovation Economies examines the rise and fall of the mass university and post industrial society considering how we might revitalize economic and intellectual creativity Looking to a much more inventive social and economic paradigm to drive long term growth the author argues for a smaller leaner more effective university model one capable of delivering a greater degree of high level discovery and creative power A potent critique of the post industrial mass university that urges a reimagination of universities as places of discovery and invention this book will appeal to readers interested in higher education creativity social theory the sociology of work and organisations political economy pedagogy and public policy

**Gender and STEM** Namrata Gupta, 2025-02-27 This book studies the prevalence of gender inequalities in the domains of science technology engineering and mathematics STEM in India It explores the paradox of an increasing number of women pursuing higher education in STEM fields while a relatively low percentage enter the job market The book analyzes the factors that contribute to the loss of potential contributions from women in science It underscores the need to understand the construction of masculinity and femininity as well as male privilege and female disadvantage and how these concepts are associated with STEM Lucid topical and rich in empirical data this book will be indispensable for scholars and researchers of women s studies gender studies sociology of science science and technology studies political studies and public policy It will also be

useful to policymakers organizations and professionals working in the STEM fields      International Conference on Electronics and Electrical Engineering ,2014-07-24 All papers including in this proceedings had undergone the strict peer review by the experts before they are accepted for publications This proceeding covers the subjects of analog circuits and digital circuits assembly and packaging biomedical circuits computer architecture computer engineering control engineering electric power system and automation energy and power systems instrumentation engineering signal processing and other related areas We hope this proceeding will contribute in stimulating debate and research among scholars researchers and academicians CEEE 2014 is to provide a forum for researchers academicians engineers and government officials from all over the world to involved in the general areas of Electronics and Electrical Engineering to disseminate their latest research results and exchange views on the future research directions of these fields This conference provides opportunities for the participants to exchange new ideas and application experiences face to face      New Era For Cp Asymmetries: Axions And Rare Decays Of Hadrons And Leptons Ikaros I Bigi, Giulia Ricciardi, Marco Pallavicini, 2021-07-14 This book is dedicated to Lev Okun who passed away in November 2015 He was a true pioneer in probing fundamental dynamics The book has two objectives First is to showcase Okun s impact for decades since 1963 when he published his remarkable book Weak Interaction of Elementary Particles Second is to present the current progress of our scientific community in the studies of our Universe New directions and possible future developments are discussed often using the past as a guide The authors mostly focus on CP asymmetries in the transitions of hadrons and leptons but they also discuss their rare decays and talk about axions and supersymmetry and possible connections with dark matter extra dimensions baryogenesis and multiverse This book is suitable for readers who know quantum mechanics and quantum field theories in general

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