

**Topic:** Investigating the relationship between the radius and the angular velocity of a rubber bung whirled in a circular path.

The purpose of this experiment is to evaluate the physics theory that connects the radius of the bung around the center (R) and its period of rotation (T) (Metal pipe). The equation represents this situation.

$$T = \sqrt{\frac{4\pi^2 m}{Mg}} \sqrt{r}$$

**Where:**

**M** is the mass of the mass stack in kg (0.15kg)

**m** is the mass of the rubber bungs in kg (0.0217kg)

**T** is for the time of one rotation in seconds

**R** is the horizontal is the horizontal radius of rotation in meters

**g** is strength of gravity (9.8 N kg<sup>-1</sup>)

### Method

1. Before getting started with the experiment make sure the scale is properly adjusted before starting the experiment using the rubber stopper. This means making sure that the balance is level and unaffected by any external elements, such as vibrations or air currents, and that the scale is set to zero.
2. The rubber stopper should be carefully placed onto the scale. Make sure the stopper is positioned evenly across the scale and is not in contact with any other items. The rubber stopper's weight will be shown on the scale in grams but you will then have to convert units into kg.
3. Next gather a 150g mass (0.15kg), some string, a metal pipe, and an end-mounted rubber bung (21.7g) 0.0217kg
4. You will next secure one end of the string to the rubber bung. The length of the string for the Whirling a rubber bung experiment can vary, but it should be long enough to allow the rubber bung to be whirled around in a horizontal circle without touching the ground or any nearby objects. Generally, depending on the size of the rubber bung and the radius of the circular path being used in the experiment
5. You will next attach the mass weights onto the other end of the string (0.15kg) While holding the string tight, grip the other end of the string (part where the mass is) and start rotating the rubber bung in a horizontal circle. Make sure that the bung stays level with the ground. (For accurate and dependable results, it is crucial to make sure that the rubber bung's weight is constant across different trials.)
6. The next step is to apply tape to the string; in some cases, it can be used to mark a specific location on the string for the Whirling a Rubber Bung experiment's measurement needs. Mark with a tape measure every 10 cm, 20 cm, 30 cm, 40 cm and so on...

# Physics Exemplar June 2014

**Linwei Wang, Qi Dou, P. Thomas  
Fletcher, Stefanie Speidel, Shuo Li**

### **Physics Exemplar June 2014:**

*Physics and Literature* Aura Heydenreich, Klaus Mecke, 2021-12-20 *Physics and Literature* is a unique collaboration between physicists literary scholars and philosophers the first collection of essays to examine together how science and literature beneath their practical differences share core dimensions forms of questioning thinking discovering and communicating insights This book advances an in depth exploration of relations between physics and literature from both perspectives It turns around the tendency to discuss relations between literature and science in one sided and polarizing ways The collection is the result of the inaugural conference of ELINAS the Erlangen Center for Literature and Natural Science an initiative dedicated to building bridges between literary and scientific research ELINAS revitalizes discussion of science literature interconnections with new topics ideas and angles by organizing genuine dialogue among participants across disciplinary lines The essays explore how scientific thought and practices are conditioned by narrative and genre fiction models and metaphors and how science in turn feeds into the meaning making of literary and philosophical texts These interdisciplinary encounters enrich reflections on epistemology cognition and aesthetics

*UK Wind Energy Technologies* Simon Hogg, Christopher Crabtree, 2016-08-05 Phase 1 of the EPSRC SUPERGEN Wind programme began in March 2006 and work continued under Phase 2 until March 2014 The strategic aim was to re establish a strong research community in wind energy technologies across the UK s leading academic and industrial research organisations UK Wind Energy Technologies gives a comprehensive overview of the range of wind energy research undertaken in the UK under Phases 1 2 to achieve this goal Specific topics covered in the book include wind resource assessment turbine array layout environmental interactions control of turbines drive train reliability and condition monitoring turbine array electrical connection power transmission to grid assessment of operations and maintenance strategies and the analysis of turbine foundations and structures Since the completion of Phase 2 the Supergen Wind consortium partners have formed a networking Hub which is now the principal national coordinating body for academic research into wind energy in the UK This book will be of interest to researchers and engineers from industry and academia and also provides workers from other countries with an overview of the range of activity within the UK resulting from the SUPERGEN Wind programme to date

**Quantum Interaction** Harald Atmanspacher, Claudia Bergomi, Thomas Filk, Kirsty Kitto, 2015-02-20 This book constitutes the refereed proceedings of the 8th International Conference on Quantum Interaction QI 2014 held in Filzbach Switzerland in June July 2014 The 19 papers together with 20 invited keynotes presented in this book were carefully selected from 22 submissions Quantum Interaction has developed into an emerging interdisciplinary area of science combining research topics in fundamental issues semantic and memory decision making games politics and social aspects non locality and entanglement

**Advancing Culturally Responsive Research and Researchers** Penny A. Pasque, e alexander, 2022-08-19 *Advancing Culturally Responsive Research and Researchers* Qualitative Quantitative and Mixed Methods encourages readers to design

and engage in methodologies and methods that place cultural relevancy at the center of inquiry In doing so it highlights the need to uplift voices and needs of people who have been historically marginalized in the environments that we both inhabit and engage in as part of knowledge construction The scholars whose work is featured in this volume take up research from different paradigmatic ontological epistemological axiological and methodological approaches yet with adherence to centering cultural responsiveness in all research decisions Each chapter seeks to extend understandings of social inequities methodologies and or methods and to contribute to meaningful and evolving social change through innovative and cutting edge research strategies While doing this work the authors illustrate and highlight the importance of researcher positions and reflexivity in supporting the expansion of culturally responsive approaches they also do so while considering global sociopolitical conditions of this moment in time The contributions to this volume were initially presented at the first biennial Advanced Methods Institute in 2021 The Institute was hosted by QualLab in The Ohio State University s College of Education and Human Ecology and shared this volume s thematic focus As a handbook the volume can help faculty and advanced researchers with interest in doing culturally responsive projects to better understand frameworks approaches and considerations for doing so It includes activities to support readers in developing said understandings

Universal Access in Human-Computer Interaction: Universal Access to Information and Knowledge Constantine Stephanidis, Margherita Antona, 2014-05-15 The four volume set LNCS 8513 8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human Computer Interaction UAHCI 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 14 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four volume set The 65 papers included in this volume are organized in the following topical sections access to mobile interaction access to text documents and media access to education and learning access to games and ludic engagement and access to culture

*Enhancing the Effectiveness of Team Science* National Research Council, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on the Science of Team Science, 2015-07-15 The past half century has witnessed a dramatic increase in the scale and complexity of scientific research The growing scale of science has been accompanied by a shift toward collaborative research referred to as team science Scientific research is increasingly conducted by small teams and larger groups rather than individual investigators but the challenges of collaboration can slow these teams progress in achieving their scientific goals How does a

team based approach work and how can universities and research institutions support teams Enhancing the Effectiveness of Team Science synthesizes and integrates the available research to provide guidance on assembling the science team leadership education and professional development for science teams and groups It also examines institutional and organizational structures and policies to support science teams and identifies areas where further research is needed to help science teams and groups achieve their scientific and translational goals This report offers major public policy recommendations for science research agencies and policymakers as well as recommendations for individual scientists disciplinary associations and research universities Enhancing the Effectiveness of Team Science will be of interest to university research administrators team science leaders science faculty and graduate and postdoctoral students *Natural Final Causality and Scholastic Thought* Corey Barnes,2024-08-13 This book examines scholastic conceptions of final causality through the methods and concerns of historical theology It argues the history of final causality is most profitably understood according to the interplay of regularity order and intentionality as interpretive categories Within this analytic framework the author explores the history and theological implications of final causality from Aristotle to Nicole Oresme utilizing shifts in the dominant interpretive category to clarify how final causality could change from one of four co equal explanatory strategies in Aristotle to the cause of causes in Avicenna to a merely metaphorical cause in Walter Chatton Theological debates ranging from questions of creation the relationship of primary and secondary causality and of the ultimate good to secondary goods the autonomy or instrumentality of nature and the compatibility of chance with providence motivated many of these changes The chapters examine final causality in Aristotle and the commentarial tradition from late antiquity to medieval Arabic sources and then consider in detail various scholastic understandings and uses of final causality The book will be of particular interest to scholars of historical theology systematic theology scholastic thought and medieval philosophy

Discrete Cosine Transform, Second Edition Humberto Ochoa-Dominguez,K. R. Rao,2019-04-18 Many new DCT like transforms have been proposed since the first edition of this book For example the integer DCT that yields integer transform coefficients the directional DCT to take advantage of several directions of the image and the steerable DCT The advent of higher dimensional frames such as UHD TV and 4K TV demand for small and large transform blocks to encode small or large similar areas respectively in an efficient way Therefore a new updated book on DCT adapted to the modern days considering the new advances in this area and targeted for students researchers and the industry is a necessity **The Sun We Share** Kristine Larsen,2024-11-21 As the dominant star in our sky the Sun has been alternately worshipped as a god and viewed as a threat over the course of human history Despite significant advances in astronomy the Sun continues to surprise us most notably in its production of so called space weather that impacts technology here on Earth This unique mixture of familiarity and mystery has made the Sun a main character in popular media over the past three centuries This book examines how popular media have adapted to our ever changing understanding of the inner workings of the Sun It provides a valuable way

to observe the inherent problems of communicating science to a non technical audience Chapters cut through the widespread hype found on the Internet and instead explore our ever improving scientific exploration of the Sun the persistent misconceptions surrounding it the fate of the Sun and its relation to the fate of the Earth and why despite comments to the contrary by Oscar Wilde the average person should care about sunspots

Computational Science - ICCS 2020 Valeria V. Krzhizhanovskaya, Gábor Závodszky, Michael H. Lees, Jack J. Dongarra, Peter M. A. Sloot, Sérgio Brissos, João Teixeira, 2020-06-19 The seven volume set LNCS 12137 12138 12139 12140 12141 12142 and 12143 constitutes the proceedings of the 20th International Conference on Computational Science ICCS 2020 held in Amsterdam The Netherlands in June 2020 The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions 230 submissions to the main track and 489 submissions to the workshops The papers were organized in topical sections named Part I ICCS Main Track Part II ICCS Main Track Part III Advances in High Performance Computational Earth Sciences Applications and Frameworks Agent Based Simulations Adaptive Algorithms and Solvers Applications of Computational Methods in Artificial Intelligence and Machine Learning Biomedical and Bioinformatics Challenges for Computer Science Part IV Classifier Learning from Difficult Data Complex Social Systems through the Lens of Computational Science Computational Health Computational Methods for Emerging Problems in Dis Information Analysis Part V Computational Optimization Modelling and Simulation Computational Science in IoT and Smart Systems Computer Graphics Image Processing and Artificial Intelligence Part VI Data Driven Computational Sciences Machine Learning and Data Assimilation for Dynamical Systems Meshfree Methods in Computational Sciences Multiscale Modelling and Simulation Quantum Computing Workshop Part VII Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Machine Learning Software Engineering for Computational Science Solving Problems with Uncertainties Teaching Computational Science UNcErtainty QUantIficatiOn for ComputatiOnAl modeLs The conference was canceled due to the COVID 19 pandemic

**How Humans Recognize**

**Objects: Segmentation, Categorization and Individual Identification** Chris Fields, 2016-08-18 Human beings experience a world of objects bounded entities that occupy space and persist through time Our actions are directed toward objects and our language describes objects We categorize objects into kinds that have different typical properties and behaviors We regard some kinds of objects each other for example as animate agents capable of independent experience and action while we regard other kinds of objects as inert We re identify objects immediately and without conscious deliberation after days or even years of non observation and often following changes in the features locations or contexts of the objects being re identified Comparative developmental and adult observations using a variety of approaches and methods have yielded a detailed understanding of object detection and recognition by the visual system and an advancing understanding of haptic and auditory information processing Many fundamental questions however remain unanswered What for example

physically constitutes an object How do specific classically characterizable object boundaries emerge from the physical dynamics described by quantum theory and can this emergence process be described independently of any assumptions regarding the perceptual capabilities of observers How are visual motion and feature information combined to create object information How are the object trajectories that indicate persistence to human observers implemented and how are these trajectory representations bound to feature representations How for example are point light walkers recognized as single objects How are conflicts between trajectory driven and feature driven identifications of objects resolved for example in multiple object tracking situations Are there separate what and where processing streams for haptic and auditory perception Are there haptic and or auditory equivalents of the visual object file Are there equivalents of the visual object token How are object identification conflicts between different perceptual systems resolved Is the common assumption that persistent object is a fundamental innate category justified How does the ability to identify and categorize objects relate to the ability to name and describe them using language How are features that an individual object had in the past but does not have currently represented How are categorical constraints on how objects move or act represented and how do such constraints influence categorization and the re identification of individuals How do human beings re identify objects including each other as persistent individuals across changes in location context and features even after gaps in observation lasting months or years How do human capabilities for object categorization and re identification over time relate to those of other species and how do human infants develop these capabilities What can modeling approaches such as cognitive robotics tell us about the answers to these questions Primary research reports reviews and hypothesis and theory papers addressing questions relevant to the understanding of perceptual object segmentation categorization and individual identification at any scale and from any experimental or modeling perspective are solicited for this Research Topic Papers that review particular sets of issues from multiple disciplinary perspectives or that advance integrative hypotheses or models that take data from multiple experimental approaches into account are especially encouraged

The Metric Tide James Wilsdon, 2016-01-20 Represents the culmination of an 18 month long project that aims to be the definitive review of this important topic Accompanied by a scholarly literature review some new analysis and a wealth of evidence and insight the report is a tour de force a once in a generation opportunity to take stock Dr Steven Hill Head of Policy HEFCE LSE Impact of Social Sciences Blog A must read if you are interested in having a deeper understanding of research culture management issues and the range of information we have on this field It should be disseminated and discussed within institutions disciplines and other sites of research collaboration Dr Meera Sabaratnam Lecturer in International Relations at the School of Oriental and African Studies University of London LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community A commitment to using data and evidence to inform decisions makes many of us sympathetic even enthusiastic about the prospect of granular real time analysis of our own activities Yet we only have to look around us at the blunt use of metrics to

be reminded of the pitfalls Metrics hold real power they are constitutive of values identities and livelihoods How to exercise that power to positive ends is the focus of this book Using extensive evidence gathering analysis and consultation the authors take a thorough look at potential uses and limitations of research metrics and indicators They explore the use of metrics across different disciplines assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems Finally they consider the negative or unintended effects of metrics on various aspects of research culture Including an updated introduction from James Wilsdon the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management by funders and in the next cycle of the Research Excellence Framework The metric tide is certainly rising Unlike King Canute we have the agency and opportunity and in this book a serious body of evidence to influence how it washes through higher education and research

*Medical Image Computing and Computer Assisted Intervention - MICCAI 2022* Linwei Wang, Qi Dou, P. Thomas Fletcher, Stefanie Speidel, Shuo Li, 2022-09-16 The eight volume set LNCS 13431 13432 13433 13434 13435 13436 13437 and 13438 constitutes the refereed proceedings of the 25th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2022 which was held in Singapore in September 2022 The 574 revised full papers presented were carefully reviewed and selected from 1831 submissions in a double blind review process The papers are organized in the following topical sections Part I Brain development and atlases DWI and tractography functional brain networks neuroimaging heart and lung imaging dermatology Part II Computational integrative pathology computational anatomy and physiology ophthalmology fetal imaging Part III Breast imaging colonoscopy computer aided diagnosis Part IV Microscopic image analysis positron emission tomography ultrasound imaging video data analysis image segmentation I Part V Image segmentation II integration of imaging with non imaging biomarkers Part VI Image registration image reconstruction Part VII Image Guided interventions and surgery outcome and disease prediction surgical data science surgical planning and simulation machine learning domain adaptation and generalization Part VIII Machine learning weakly supervised learning machine learning model interpretation machine learning uncertainty machine learning theory and methodologies

*Cosmos, Values, and Consciousness in Latin American Digital Culture* Angelica J. Huizar, 2020-05-19 This book understands digital cultural production of electronic literatures and digital art by looking at electronic and digital works that produce subjective positionality clouded knowledges of quantum theories and metaphysical patterns grounded in a cultural ideology This book underlines a conceptual framework for understanding how digital media impacts reading approaching and even interpreting social reality The qualitative analyses interpret the current zeitgeist and the works selected speak of the diverse sometimes regionalized and often multi ethnic reality of the Latin American experience The analyses elaborate on how artists reflect both the world they live in and a universal consciousness These artists are not simply digitalizing



literature and these works are more than techy creations rather they make us think of other directions and connections

*Galileo and His Sources* William A. Wallace, 2014-07-14 William A Wallace demonstrates the importance of two early manuscripts of Galileo dismissed by earlier researchers as juvenile exercises Analyzing all his scientific writings from the late 1580s to 1610 and from 1610 to 1640 this book illuminates both the sources and the evolution of Galileo's thought Originally published in 1984 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 ESRC Newsletter, 1985 **Target Hiroshima** Al, 2014-02-15 For better or worse Navy captain William S Deak Parsons made the atomic bomb happen As ordnance chief and associate director at Los Alamos Parsons turned the scientists nuclear creation into a practical weapon As weaponeer he completed the assembly of Little Boy during the flight to Hiroshima As bomb commander he approved the release of the bomb that forever changed the world Yet over the past fifty years only fragments of his story have appeared in part because of his own self effacement and the nation's demand for secrecy Based on recently declassified Manhattan Project documents including Parsons logs and other untapped sources the book offers an unvarnished account of this unsung hero and his involvement in some of the greatest scientific advances of the twentieth century **Thinking with Feeling** Douglas P. Newton, 2014-03-05 Are emotions good or bad for thinking and learning Have you ever wondered why a good lesson of one year falls flat in another Why do students behave the way they do Teachers are expected to foster productive thought yet the neglect of emotion in the classroom in favour of intellect means teaching and learning is often not as effective as it might be Thinking with Feeling explores what we mean by productive thought its interrelationship with mood and emotions how teachers can manage that interaction to improve teaching and learning and what teacher trainers could do about it Synthesising the most important international research in the field it offers a framework for productive purposeful thought deduction understanding creative thinking wise thinking and critical thinking and explains how mood and emotion can support and also impede learning It considers the effect of the interplay of emotion and intellect on classroom behaviour on students public performance and performance in tests and how emotional labour can affect the teacher Illustrated with examples from practice this challenging thoughtful study offers education professionals a basis for understanding the interaction of emotions and cognition and making it a successful partnership in order to improve teaching and learning **Marketing Theory** Shelby D. Hunt, 2014-12-18 One of the true classics in Marketing is now thoroughly revised and updated Marketing Theory is both evolutionary and revolutionary As in earlier editions Shelby Hunt focuses on the marketing discipline's multiple stakeholders He articulates a philosophy of science based tool kit for developing and analyzing theories law like

generalizations and explanations in marketing science Hunt adds a new dimension to the book however by developing arguments for the position that Resource Advantage Theory provides the foundation for a general theory of marketing and a theoretical foundation for business and marketing strategy Also new to this edition are four chapters adapted and updated from Hunt s Controversy in Marketing Theory that analyze the philosophy debates within the field including controversies with respect to scientific realism qualitative methods truth and objectivity

**Unfinished Discussion About God** mia johansson,2014-10-09 It is about you and me About us About HIM About empty spaces and immortality About shooting stars and the world upside down It is about questions and answers about curiosity It is a journey in time and space into the reason of pro creation and the miracle of to be It is a journey into the unknown into the inner part of you It is about what some would call it soul or consciousness and other would call it advanced wave beam matter or antimatter Quantum physics probably It is about the moment when the soul opens when the time has come About that moment you can either anticipate or program It just happens And all of our feelings are in resonance with the stars It is about the beginning and the end About the mystery of love But above all it is about YOU and ME

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