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Physics Department News
Early in her career as a William & Mary student, Beulah Elizabeth Cox turned in a physics exam that contained what became one of the most famous incorrect answers in science ... nuclear physics ...

Understanding of protons and neutrons, or "nucleons" â €"the building blocks of atomic nuclei â €"has advanced dramatically, both theoretically and experimentally, in the past half century. A central goal of modern nuclear physics is to understand the structure of the proton and neutron directly from the dynamics of their quarks and gluons governed by the theory of their interactions, quantum chromodynamics (QCD), and how nuclear interactions between protons and neutrons emerge from these dynamics. With deeper understanding of the quark-gluon structure of matter, scientists are poised to reach a deeper picture of these building blocks, and atomic nuclei themselves, as collective many-body systems with new emergent behavior. The development of a U.S. domestic electron-ion collider (EIC) facility has the potential to answer questions that are central to completing an understanding of atoms and integral to the agenda of nuclear physics today. This study assesses the merits and significance of the science that could be addressed by an EIC, and its importance to nuclear physics in particular and to the physical sciences in general. It evaluates the significance of the science that would be enabled by the construction of an EIC, its benefits to U.S. leadership in nuclear physics, and the benefits to other fields of science of a U.S.-based EIC.

The principal goals of the study were to articulate the scientific rationale and objectives of the field and then to take a long-term strategic view of U.S. nuclear science in the global context for setting future directions for the field. Nuclear Physics: Exploring the Heart of Matter provides a long-term assessment of an outlook for nuclear physics. The first phase of the report articulates the scientific rationale and objectives of the field, while the second phase provides a global context for the field and its long-term priorities and proposes a framework for progress through 2020 and beyond. In the second phase of the study, also developing a framework for progress through 2020 and beyond, the committee carefully considered the balance between universities and government facilities in terms of research and workforce development and the role of international collaborations in leveraging future investments. Nuclear physics today is a diverse field, encompassing research that spans dimensions from a tiny fraction of the volume of the individual particles (neutrons and protons) in the atomic nucleus to the enormous scales of astrophysical objects in the cosmos. Nuclear Physics: Exploring the Heart of Matter explains the research objectives, which include the desire not only to better understand the nature of matter interacting at the nuclear level, but also to describe the state of the universe that existed at the big bang. This report explains how the universe can now be studied in the most advanced colliding-beam accelerators, where strong forces are the dominant interactions, as well as the nature of neutrinos.

The original title for this work was " Mathematical Literacy, What Is It and Why You Need it " . The current title reflects that there can be no real learning in any subject, unless questions of who, what, when, where, why and how are raised in the minds of the learners. The book is not a mathematical text, and there are no assigned exercises or exams. It is written for reasonably intelligent and curious individuals, both those who value mathematics, aware of its many important applications and others who have been inappropriately exposed to mathematics, leading to indifference to the subject, fear and even loathing. These feelings are all consequences of meaningless presentations, drill, rote learning and being lost as the purpose of what is being studied. Mathematics education needs a radical reform. There is more than one way to accomplish this. Here the author presents his approach of wrapping mathematical ideas in a story. To learn one first must develop an interest in a problem and the curiosity to find how masters of mathematics have solved them. What is necessary to be mathematically literate? It ' s not about solving algebraic equations or even making a geometric proof. These are valuable skills but not evidence of literacy. We often seek answers but learning to ask pertinent questions is the road to mathematical literacy. Here is the good news: new mathematical ideas have a way of finding applications. This is known as " the unreasonable effectiveness of mathematics. "

This book is an introduction to the basic theory and engineering of advanced electron beam sources known as photoinjectors. Photoinjectors produce relativistic electrons for exciting new devices such as x-ray free electron lasers and the polarized beams for very high energy physics linear colliders. The chapters are written by renowned experts in the field who share their working knowledge of the technologies needed for designing and building photoinjectors.

On December 4 â €"5, 2019, the National Academies of Sciences, Engineering, and Medicine held a 1.5-day public workshop titled Exploring the Frontiers of Innovation to Tackle Microbial Threats. The workshop participants examined major advances in scientific, technological, and social innovations against microbial threats. Such innovations include diagnostics, vaccines (both development and production), and antimicrobials, as well as nonpharmaceutical interventions and changes in surveillance. This publication summarizes the presentations and discussions from the workshop.

A few years ago, as the editor of Kidney International, I was ap proached by Drs. Cohen, Kassirer, and Harrington who suggested that a new feature should be included in each monthly issue of the journal. They suggested that it should employ a case discussion format such as that used frequently at specialty rounds in teaching hospitals, and that the discussion should place a special emphasis on the relationship between basic science and important problems in clinical nephrology. The summary of an actual patient history would first be presented to exemplify a particular clinical problem, a seasoned person of proven expertise would be invited to deliver a well-documented analysis of the relevant issues, and perhaps most ambitiously of all, a critical audience would be assembled to challenge the principal discussant in an open ended, question-and-answer period. The entire affair would be recorded at the time of the live conference and transcribed subse quently in preparation for publication as a "Nephrology Forum. " I must confess that I was somewhat hesitant at first to endorse their proposal because, at the time, Kidney International had just begun to establish a solid reputation for the publication of high quality, peer reviewed manuscripts dealing with the clinical and laboratory research interests of the international nephrological community.

You don t have to be a great musician to appreciate great music. Nor do you need to be a great scientist to appreciate the exciting discoveries and intriguing mysteries of our universe.Dr. Robert Piccioni brings the excitement of modern scientific discoveries to general audiences. He makes the key facts and concepts understandable without dumbing them down. He presents them in a friendly, conversational manner, and includes many personal anecdotes about the people behind the science.With 33 images and over 100 graphics, this book explains the real science behind the headlines and sound bites. Learn all about:" Our universe: How big? How old? What came before?" The Big Bang, black holes, and supernovae" Quantum Mechanics and uncertainty" How the immense and the minute are connected" What is Special about General Relativity" How mankind can become Earth s best friend

Mira and her dog Popo were bored. Mira decided to look in her big sister's room. She touched the doorknob. Zap! Flash! Mira got a big shock. How did the doorknob make her hand tingle?