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*Physicists create quantum phase battery – Physics World*

The Canadian teenager Maryam Tsegaye has bagged a total

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of \$400,000 in prizes for making the above video about quantum tunnelling. Tsegaye, 17, is winner of the 2020 Breakthrough Junior Challenge, which was founded by the billionaires Yuri and Julia Milner. Tsegaye is a student at École McTavish Public High School in Fort MacMurray and her teacher Katherine Vladicka-Davies will get \$50,000 of ...

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Quantum physics is the study  
of the behavior of matter  
and energy at the molecular,  
atomic, nuclear, and even  
smaller microscopic levels.  
In the early 20th century,  
scientists discovered that  
the laws governing

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macroscopic objects do not function the same in such small realms.

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Quantum mechanics stands as one of the most remarkable achievements of the 20th century, providing startling insight into the nature of matter and a spectacularly successful predictive theory. However, while the predictive ability of the quantum theory has been rigorously tested time and

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again, so that it now satisfies any criterion of reliability as a tool of scientific inquiry, fundamental difficulties remain with its interpretation. The Mystery of the Quantum World, Second Edition introduces the philosophical issues raised by the success of the quantum theory and lucidly outlines the different points of view adopted by various physicists striving to understand the meaning underlying the theories used every day. The author encourages you to see how the most successful of physical theories is relevant to issues outside

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physics. Revised and expanded, this edition includes a new chapter that introduces the most important of the recent developments in quantum theory. The authoritative selection of topics ensures that readers already familiar with the first edition of the book will extend their knowledge of quantum theory, and those with no previous knowledge acquire an insight into this fascinating world.

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of the intellectual challenges and disagreements in the study of the behavior of atomic and sub-atomic particles--a field that has completely changed our view of the physical world, but that is still the subject of unresolved debate about its own fundamental interpretation. The work is accessible to those with no background in higher mathematics, but will also interest readers who have a more specialized knowledge of scientific topics. The author has spent most of his working life as a theoretical elementary particle physicist and from 1968 to 1979 was Professor

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of Mathematical Physics at the University of Cambridge. In 1979 he resigned to train for the ministry of the Church of England, and he is now an ordained priest. Here he describes a theory that has been spectacularly successful in predicting the behavior of objects the size of atoms and smaller but that has aroused conflicting views about the nature of reality and the degree of independence between the world around us and ourselves as observers.

Quantum physics has, on the one hand, drastically changed our theoretical description of the physical



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world and has, on the other hand, revolutionized everyday life, by allowing us to build lasers, atomic clocks used in GPS, and semiconductor-based devices such as laptop computers and smartphones. The object of this book is to give a self-contained introduction to both aspects. It contains a detailed account of the foundational principles: superposition, entanglement, quantum non-locality, decoherence and measurement theory, and of some selected applications: quantum cryptography and quantum computers, cold atoms, light emitting and laser diodes, and atomic clocks. The book

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is aimed at a general audience and the only prerequisite is a high-school background in mathematics.

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quantum Hall effect, and many more. Its story reflects the magic, the mystery, and the simplicity of the laws of nature, and Indu Satija, in a wonderfully personal style, relates this story, enriching it with a vast number of lively historical anecdotes, many photographs, beautiful visual images, and even poems, making her book a great feast, for the eyes, for the mind and for the soul.

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century, most physicists have followed Niels Bohr's Copenhagen interpretation and dismissed questions about the reality underlying quantum physics as meaningless. A mishmash of solipsism and poor reasoning, Copenhagen endured, as Bohr's students vigorously protected his legacy, and the physics community favored practical experiments over philosophical arguments. As a result, questioning the status quo long meant professional ruin. And yet, from the 1920s to today, physicists like John Bell, David Bohm, and Hugh Everett persisted in seeking the

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true meaning of quantum mechanics. What Is Real? is the gripping story of this battle of ideas and the courageous scientists who dared to stand up for truth.

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systematics of elementary particles, the processes of the creation of atomic nuclei and the evolution of stars as well as different applied aspects of the physics of micro-objects.

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