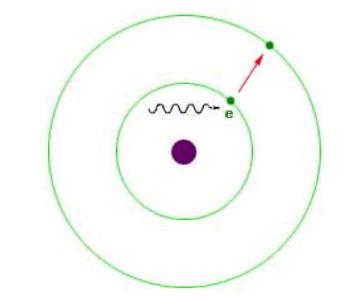


Do you want to make a QUANTUM leap?



NSF is Making a Quantum Leap - How Can Science Museums and Science Educators Keep Up?

We're in the midst of a new Quantum Revolution...

A hundred years ago, quantum physics began to revolutionize our understanding of matter and energy. Now, in a second quantum revolution, we are learning how to harness certain fundamental quantum properties of matter and energy at the atomic and sub-atomic level to create powerful new quantum materials and technologies with the potential to transform computing, sensing, and communications. In 2016, the U.S. National Science Foundation designated the *Quantum Leap* as one of its "10 Big Ideas for Future Investment." Worldwide, funding is pouring into the development of new quantum materials and technologies. Nations are racing to be the first to use quantum entanglement to secure communications. Companies are competing to build the first quantum computers harnessing superposition and entanglement to crunch reams of big data and solve complex computational problems currently beyond reach.

C.L. Alpert, K. Thate, M. Litwhiler - Museum of Science, Boston

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Quantum mechanics is startling, complex, counter-intuitive, and probabilistic, and yet it undergirds the known laws of matter and energy in our physical universe. New quantum technologies may transform how we live and work. Science educators and museums have a unique opportunity to partner with quantum researchers to produce pioneering exhibits, activities, and media, engaging students along with the broader community.

NSE ATTENDEES: This is a poster we made to spark discussion at the 2017 Meeting of the Association of Science-Technology Centers. We plan to initiate a workshop to stimulate a greater sharing of ideas and practices in Quantum Education & Outreach.

PLEASE FLAG YOUR INTERESTS AND LEAVE A CARD OR A NOTE IN THE ENVELOPE.

Let's build an International Quantum Education & Outreach Community

