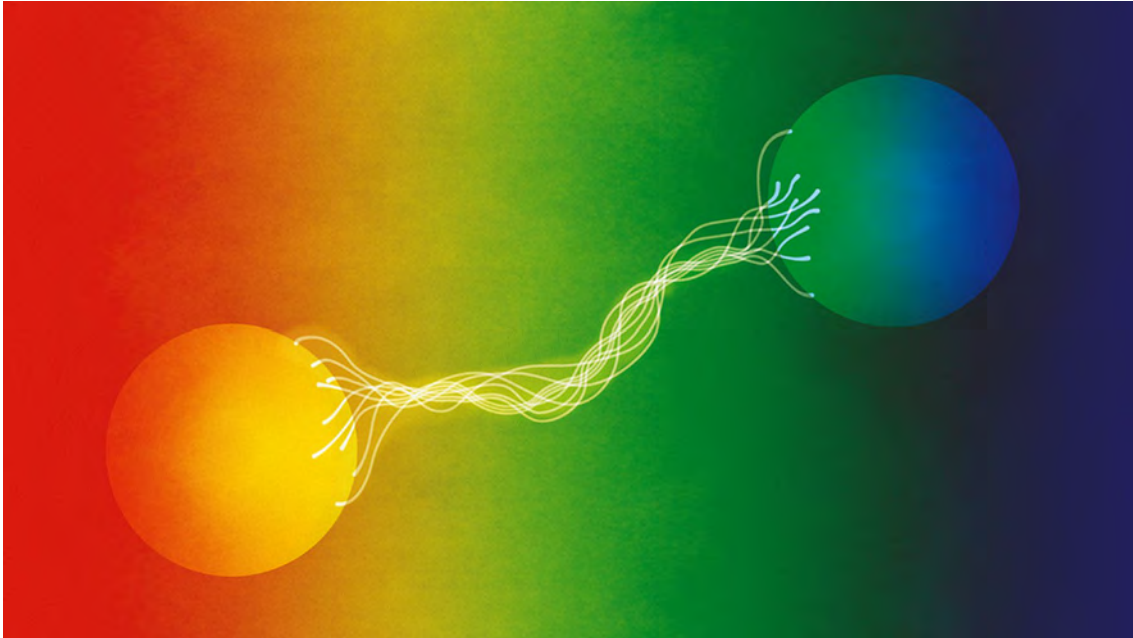


Student Assignment: Physics prize 2022 Research on Quantum Mechanics



Alain Aspect, John F. Clauser and Anton Zeilinger are awarded the 2022 Nobel Prize in Physics for their experiments with quantum mechanically entangled particles of light.

What do you think is most interesting about this year's physics prize?

The prize has been awarded for experiments that test whether a theory is correct. Which do you think is more interesting to develop: exciting theories or smart experiments?

One field in which the laureates' discoveries can be important is quantum computers, which have much greater capacity than today's computers. What kinds of opportunities do you think more powerful computers might make possible? Could there be any risks?

John F. Clauser was advised by his colleagues to give up working with his experiments because they believed he had no chance of succeeding. What do you think it was that motivated him?

The laureates have not been working together, but each one's work builds to some extent on that of the others. It's important both to take inspiration from what others have done and to be able to work independently. Which of these is your stronger side?
