

Homework for Nanotechnology on Education

<https://www.educanon.com/dash>

Class : Introduction to the Nano-electromechanical Systems

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Video Topic :

TED-Ed: 粒子和波 (particle or wave): 量子力學的核心奧秘 - Chad Orzel

Original video address on YouTube :

<https://www.youtube.com/watch?v=Hk3fgjHNQ2Q>

“Particles and waves: The central mystery of quantum mechanics - Chad Orzel”

1. Video address on educanon : www.educanon.com/public/154680/309476

2. The 5 – 10 questions that you post on educanon:

1. What is the other weird stuff you might have heard about quantum physics?
 - A. Schrodinger's Cat
 - B. God playing dice
 - C. Spooky action at a distance
 - D. All answers correct**
2. Who is the first person to seriously suggest the dual nature of light?
 - A. Max Planck
 - B. Niels Bohr
 - C. Albert Einstein**
 - D. Fajaero Asweino
3. Who explained the colors of light emitted by hot objects like the filament in a light bulb?
 - A. Max Planck**
 - B. Albert Einstein
 - C. Niels Bohr
 - D. Louis de Broglie
4. Which statement was Niels Bohr proposal to change the physics rules of atoms?
 - A. The way light shining on a metal surface knocks loose electrons
 - B. Most of the mass of the atom is concentrated in a tiny nucleus
 - C. The electrons orbiting like a miniature solar system
 - D. An electron in certain special orbits doesn't emit any light at all.**
5. Who had observed wave behavior from electrons by shooting single electrons at a barrier with slits cut in it?
 - A. Niels Bohr
 - B. Scientists in US and UK**
 - C. Louis de Broglie
 - D. Ernest Rutherford