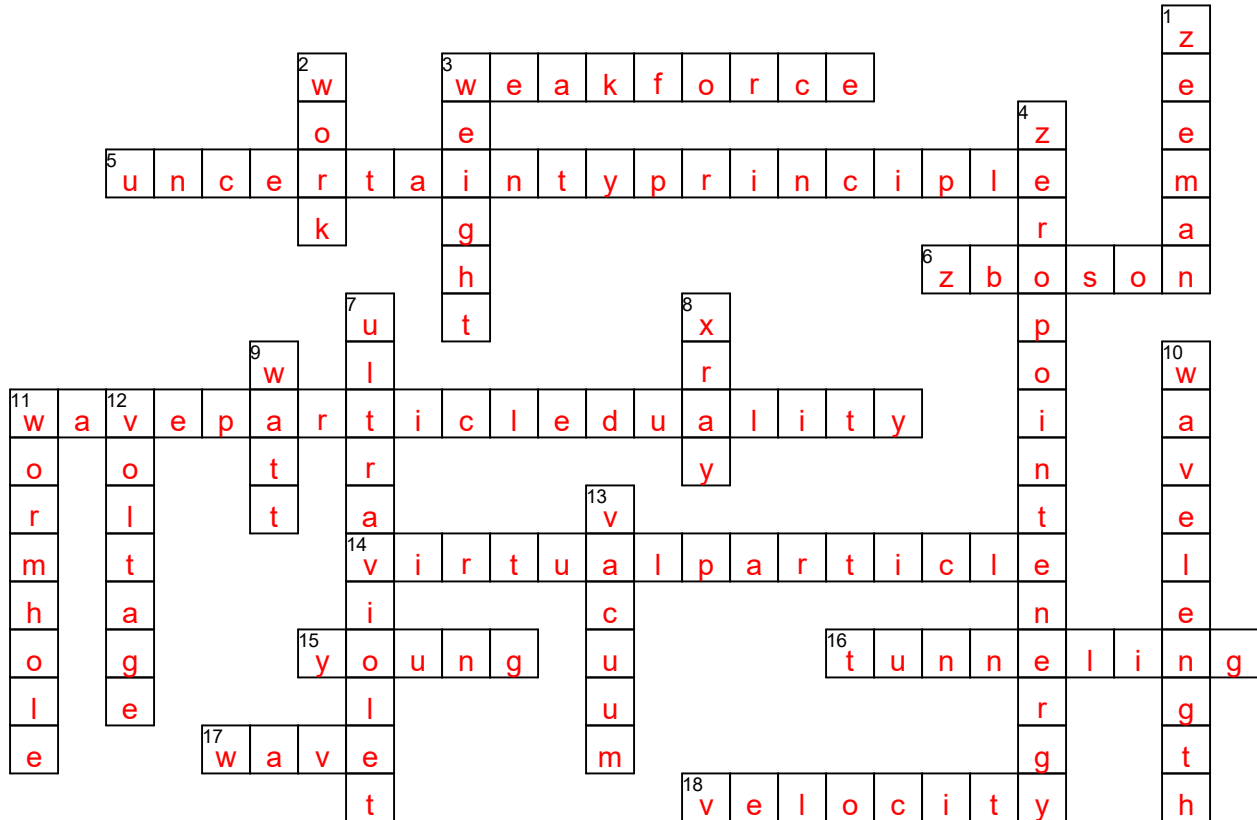


Physics Terms Crossword Puzzle 6-3

1. Using the Across and Down clues, write the correct answer in the numbered grid below.



ACROSS

3. One of the four fundamental forces of nature, responsible for radioactive decay.
5. The principle that it is impossible to know both the position and momentum of a particle with absolute precision.
6. A particle that mediates the weak nuclear force.
11. The concept that every particle or quantum entity exhibits both wave and particle properties.
14. A particle that exists for a limited time during interactions between real particles.
15. Scientist known for his double-slit experiment.
16. A quantum mechanical phenomenon where particles move through a barrier.
17. A disturbance that travels through a medium.
18. The speed of something in a given direction.

DOWN

1. Effect observed in the splitting of spectral lines in the presence of a magnetic field.
2. The product of force and displacement.
3. The force exerted on a body by gravity.
4. The lowest possible energy that a quantum mechanical system may have.
7. Electromagnetic radiation with a wavelength shorter than that of visible light.
8. A form of electromagnetic radiation.
9. The unit of power in the International System of Units.
10. The distance between successive crests of a wave.
11. A hypothetical tunnel connecting two separate points in space-time.
12. The electric potential difference between two points.
13. A space devoid of matter.

wave

wormhole

wavelength

work

tunneling

x-ray

voltage

velocity

Young

zero-point energy

watt

weak force

ultraviolet

Zeeman

uncertainty principle

virtual particle

wave-particle duality

z boson

weight

vacuum