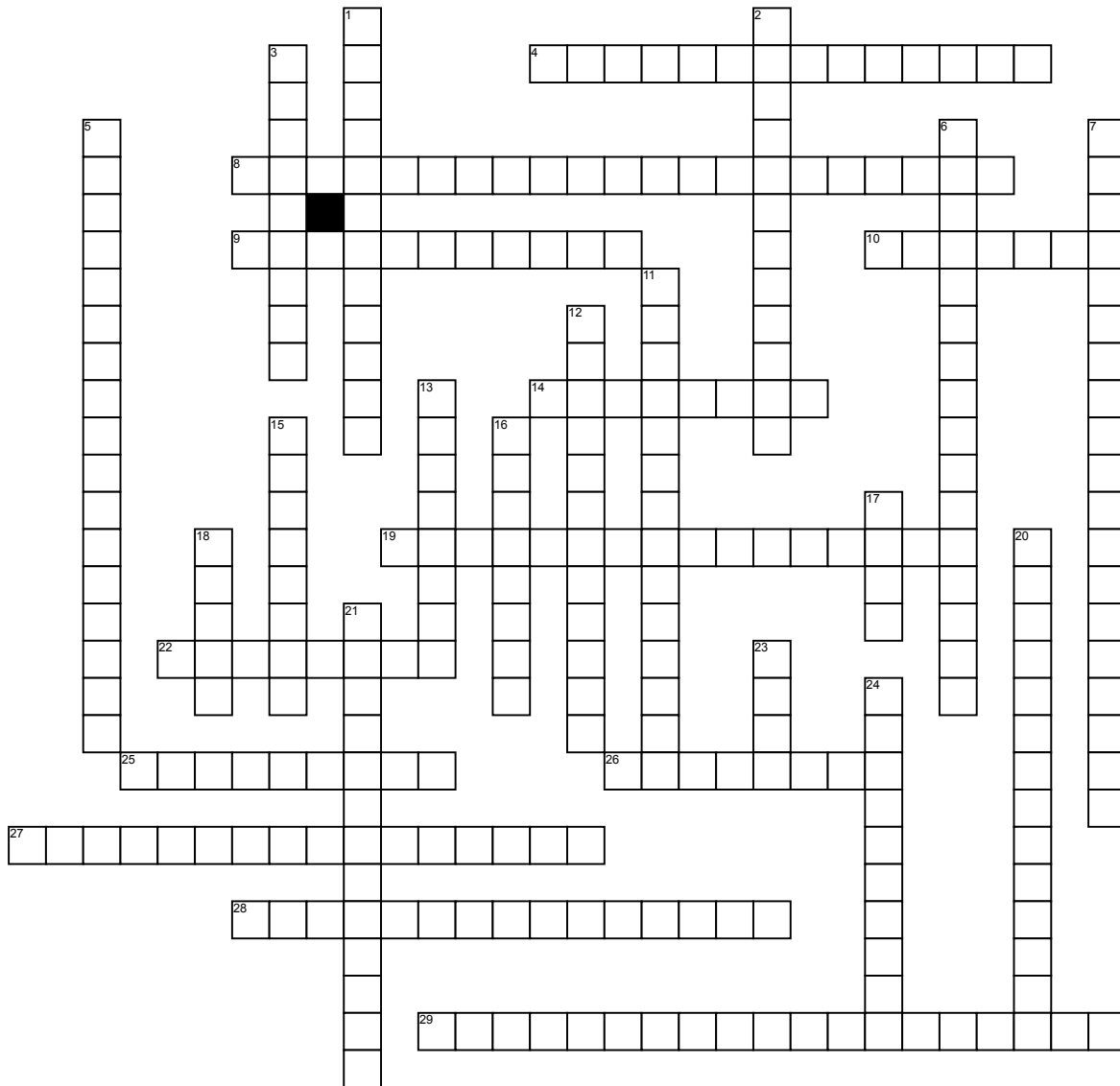


Physics Vocabulary



Across

4. Photons emitted as electrons are slowed down by the electric field near a nucleus
 8. Three principles of radiation protection
 9. Reduction in intensity as an x-ray moves through matter
 10. Substance made up entirely of one kind of atom
 14. Elements that have the same number of Protons, but a different number of Neutrons
 19. Shapes the x-ray beam in its cross-sectional dimension
 22. An electron has a _____ charge
 25. Conveys microwave power to the accelerator structure in the gantry
 26. Source of microwave power for a Linac
 27. Force responsible for the interaction between electrically charged particles

28. Scale of radiosensitivity on CT scans

29. Discovered radioactivity in 1902

Down

1. The degree of darkening on an image
 2. The number of protons in the nucleus, Z
 3. Emission or transmission of energy in the form of waves or particles through space or material
 5. Incorrect application of delivery of prescribed dose
 6. Describes the relationship between intensity of a radiation beam and the distance from the source
 7. Interaction of photon with inner-shell electron
 11. Replaces the flattening filter for electron treatments
 12. Energy deposited in matter by ionizing radiation per unit mass

13. Time required for the activity of a radioisotope sample to decay to half of its initial value
 15. The change in the apparent position of an object when viewed from different points
 16. The weight of a particle when it is not moving
 17. Smallest unit of an element that retains the properties of that element
 18. Three-dimensional representation of image information
 20. Interaction of photon with outer-shell electron
 21. The amount of energy required to remove an electron from an atom
 23. Abbreviation for imaging devices mounted on a Linac
 24. Monitors and samples the Linac beam for symmetry